WARRANTY

	Powers Authority
Owner N 201 Mission, Suite 2	Name) 100, San Francisco, CA
(Owner Address)	
We hereby warrant and guarantee that the	(Description of Work)
	(Description of vvolk)
	has been done in strict ns, and that the work installed will fulfill the
prove to be defective in workmanship or materi repair or replacement because of our defective w	paired or replaced, any or all of the work which may tals, together with any adjacent work which required work within a period of year(s) from the filing tents, or acceptance by the Owner of the building,
written notice, or fail to pursue such compliance authorize the Owner or the General Contractor good at our sole expense, and we will honor interest at the maximum rate permitted by law obligations, and if Owner or General Contractor	ove paragraph within ten (10) days after receipt of e with diligence, we jointly, and severally, do hereby it to proceed to have the defects repaired and made and pay the costs and charges for it together with we upon demand. If we fail to fulfill the preceding it bring an action to enforce this Warranty, we agree attorney's fees incurred in connection therewith.
SUBCONTRACTOR:	CONTRACTOR:
	WEBCOR/OBAYASHI JOINT VENTURE
BY:	BY:
DATE:	DATE:
LICENSE NO	LICENSE NO. 928731A, B, C-8
LOCAL REPRESENTATIVE TO BE CONTACTI	ED FOR SERVICE:
NAME:	
ADDRESS:	
TELEPHONE:	



Exhibit C

LIEN RELEASES

Form Number	Form Title
1034	Conditional Waiver and Release Upon Progress Payment
1035	Unconditional Waiver and Release Upon Progress Payment
1036	Conditional Waiver and Release Upon Final Payment
1037	Unconditional Waiver and Release Upon Final Payment

CONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT California Civil Code Section 8132

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Name of Claimant:
Name of Customer: Webcor/Obayashi Joint Venture
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Through Date:
Conditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond right the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that thi document is signed by the claimant, are waived and released by this document, unles listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:
Maker of Check: Webcor/Obayashi Joint Venture
Amount of Check: \$
Check Payable to:
Exceptions
This document does not affect any of the following: Retentions. Extras for which the claimant has not received payment. The following progress payments for which the claimant has previously given a conditional
waiver and release but has not received payment: Date(s) of waiver and release: Amount(s) of unpaid progress payment(s): \$
 (4) Contract rights, including (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the payment.
Signature
Claimant's Signature:
Claimant's Title:
Date of Signature:

UNCONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT California Civil Code Section 8134

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Name of Claimant:
Name of Customer: Webcor/Obayashi Joint Venture
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Through Date:
Unconditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond right the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upor labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has received the following progress payment \$
Exceptions
 This document does not affect any of the following: (1) Retentions. (2) Extras for which the claimant has not received payment. (3) Contract rights, including (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the payment.
Signature
Claimant's Signature: Claimant's Title: Date of Signature:

CONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT California Civil Code Section 8136

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Name of Claimant:
Name of Customer: Webcor/Obayashi Joint Venture
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Conditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:
Maker of Check: Webcor/Obayashi Joint Venture
Amount of Check: \$
Check Payable to:
Exceptions
This document does not affect any of the following:
Disputed claims for extras in the amount of: \$
Signature
Claimant's Signature:
Claimant's Title:
Date of Signature:

UNCONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT California Civil Code Section 8138

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Identifying Information
Name of Claimant:
Name of Customer: Webcor/Obayashi Joint Venture
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Unconditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for all labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has been paid in full.
Exceptions
This document does not affect the following: Disputed claims for extras in the amount of: \$
Signature
Claimant's Signature:
Claimant's Title:
Date of Signature:

CONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT California Civil Code Section 8132

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Name of Claimant:
Name of Customer:
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Through Date:
Conditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond right the claimant has for labor and service provided, and equipment and material delivered, the customer on this job through the Through Date of this document. Rights based upo labor or service provided, or equipment or material delivered, pursuant to a writte change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:
Maker of Check: Amount of Check: \$ Check Payable to:
Exceptions
 This document does not affect any of the following: (1) Retentions. (2) Extras for which the claimant has not received payment. (3) The following progress payments for which the claimant has previously given a conditional waiver and release but has not received payment: Date(s) of waiver and release: Amount(s) of unpaid progress payment(s): \$
Signature Claimant's Signature: Claimant's Title: Date of Signature:

UNCONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT California Civil Code Section 8134

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

NT COL
Name of Claimant:
Name of Customer:
Job Location: <u>Transbay Transit Center 425 Mission St. San Francisco, California</u>
Owner: Transbay Joint Powers Authority
Through Date:
Unconditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond right
the claimant has for labor and service provided, and equipment and material delivered, to
the customer on this job through the Through Date of this document. Rights based upon
labor or service provided, or equipment or material delivered, pursuant to a writte
change order that has been fully executed by the parties prior to the date that thi
document is signed by the claimant, are waived and released by this document, unles
listed as an Exception below. The claimant has received the following progress payment
\$
Exceptions
This document does not affect any of the following:
(1) Retentions.
(2) Extras for which the claimant has not received payment.
(3) Contract rights, including (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the
payment.
Signature
Claimant's Signature:
Claimant's Title:
Date of Signature:

CONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT California Civil Code Section 8136

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Name of Claimant:
Name of Customer:
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Conditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:
Maker of Check:
Amount of Check: \$
Check Payable to:
Exceptions
This document does not affect any of the following:
Disputed claims for extras in the amount of: \$
Signature
Claimant's Signature: Claimant's Title: Date of Signature:
-

UNCONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT California Civil Code Section 8138

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Identifying Information
Name of Claimant:
Name of Customer:
Job Location: Transbay Transit Center 425 Mission St. San Francisco, California
Owner: Transbay Joint Powers Authority
Unconditional Waiver and Release
This document waives and releases lien, stop payment notice, and payment bond right the claimant has for all labor and service provided, and equipment and material delivered to the customer on this job. Rights based upon labor or service provided, or equipment of material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has been paid in full.
Exceptions
This document does not affect the following: Disputed claims for extras in the amount of: \$
Signature
Claimant's Signature:
Claimant's Title:
Date of Signature:



Exhibit D

SAMPLE CERTIFICATE OF INSURANCE AND ADDITIONAL INSURED ENDORSEMENT

Form Number	Form Title
ACCORD 25	Certificate of Liability Insurance
CG 201 10 11 85	Additional Insured - Owners, Lessees or Contractors (Form B) - Commercial General Liability
WC 04 03 06	Waiver of Our Right to Recover from Others Endorsement



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

C	ertificate holder in lieu of such endo								omer rights to tite
PRO	DUCER				CONTA NAME:	CT			
	Y AGENT OR BROKER				PHONE IA/C. N	(o, Ext):_		FAX (A/C, No):	
ł .	REET ADDRESS 「Y, STATE, ZIP	*		•	E-MAIL ADDRE				
	ONE/FAX		S	AMPLE		ins	SU XYZ IN	ISURANCE COMPA	NY NAIC#
				, = ==	INSUR	RA:	(RATE	D A-VII OR BETTER	BY
INSU	JRED				INSUR	RB:	 AM BI		
	C SUBCONTRACTOR				INSURE	RC:	- Alvi Di	.517	
	REET ADDRESS '				INSURE	RD:			
CI	TY, STATE, ZIP				INSURE	RE:			
					INSURE	RF:			
				E NUMBER:				REVISION NUMBER:	
Ţ	HIS IS TO CERTIFY THAT THE POLICIES	S OF	INSU	RANCE LISTED BELOW HA	VE BEE	N ISSUED TO	THE INSURE	D NAMED ABOVE FOR T	HE POLICY PERIOD
U C	IDICATED. NOTWITHSTANDING ANY R ERTIFICATE MAY BE ISSUED OR MAY	EQUII PERT	KEME AIN.	NT, TERM OR CONDITION THE INSURANCE AFFORD	OF AN	Y CONTRACT	OR OTHER I	DOCUMENT WITH RESPE	CT TO WHICH THIS
E	XCLUSIONS AND CONDITIONS OF SUCH	POLI	CIES.	LIMITS SHOWN MAY HAVE	BEEN	REDUCED BY	PAID CLAIMS.	·	JAME THE TENTIO,
INSR LTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s
	GENERAL LIABILITY							EACH OCCURRENCE	\$ 1,000,000
	X COMMERCIAL GENERAL LIABILITY							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ TBD
	CLAIMS-MADE X OCCUR	X	X	XYZ123456		,		MED EXP (Any one person)	\$ TBD
Α								PERSONAL & ADV INJURY	\$ 1,000,000
								GENERAL AGGREGATE	\$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:	1						PRODUCTS - COMP/OP AGG	\$ 2,000,000
	POLICY X PRO-	1	}		İ				\$
	AUTOMOBILE LIABILITY		l		· · · ·		·····	COMBINED SINGLE LIMIT (Ea accident)	s 1,000,000
Α	X ANY AUTO			XYZ654321				BODILY INJURY (Per person)	\$
\sim	ALL OWNED SCHEDULED							BODILY INJURY (Per accident)	\$
	AUTOS AUTOS NON-OWNED AUTOS AUTOS		}					PROPERTY DAMAGE (Per accident)	\$
	AUTOS							(Fer accident)	\$
-	UMBRELLA LIAB X OCCUR							EACH OCCURRENCE	\$
Α	EXCESS LIAB CLAIMS-MADE			XYZ123456				AGGREGATE	\$
	DED RETENTION\$	1						HOOKEGATE	\$
	WORKERS COMPENSATION				***************************************		· · · · · · · · · · · · · · · · · · ·	X WC STATU- OTH-	<u> </u>
	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXEGUTIVE Y / N	}	х	XYZ123456				E.L. EACH ACCIDENT	\$ 1,000,000
Α	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A						E.L. DISEASE - EA EMPLOYEE	<u> </u>
	if yes, describe under DESCRIPTION OF OPERATIONS below	i :						E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
	POLLUTION LIABILTY			. XYZ123456				THE DISCHOL - POLICY LIMIT	y , , , , , , , , , , , , , , , , , , ,
Α	1 OLLO HON LIABILT			XYZ123456	ľ		·		
	PROFESSIONAL LIABILITY	i							
DESC	RIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (A	ttach	ACORD 101, Additional Remarks t	Schedule,	if more space is	required)		
P	E: Transbay Transit Center Build	ina				•			
11	c. Hallsbay Hallsk Center Bulla	irig							
				•					
CFF	RTIFICATE HOLDER				CANO	ELLATION			
				1	OMNO	MALLA I ION			
	ocor/Obayashi Joint Venture							ESCRIBED POLICIES BE CA	
	Mariners Island Blvd., 7th Floor			j	THE	EXPIRATION	DATE THE	REOF, NOTICE WILL E	
oar	Mateo, CA 94404-2514				ACC	OKDANCE WI	IN INE POLIC	Y PROVISIONS.	
				}	AUTHOR	RIZED REPRESEI	NTATIVE		
					, action	name matitude	aure		
				ł		Mary	Jane Doe		

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.

(The following "attaching clause" needs to be completed only when this endorsement is issued subsequent to preparation of the policy.)

This endorsement forms a part of Policy No. XYZ 1234567

issued to: ABC SUBCONTRACTOR

By: XYZ INSURANCE COMPANY

Premium (If any) TBD

We have a right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us).

You must maintain payroll records accurately segregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be 2-5% of the California workers compensation premium otherwise due operation.

Sint-Jule

Person or Organization

Job Description

WEBCOR/OBAYASHI JOINT VENTURE,
Its Officers, Directors and Employees
AND
TRANSBAY JOINT POWERS AUTHORITY,
its Board Members and Commissions,
All Authorized Agents and Representatives,
and Members, Directors, Officers, Trustees,
Agents and Employees of Any of Them.

TRANSBAY TRANSITY CENTER BUILDING.

WAIVER OF SUBRAGATION FOR WORKERS COMPENSATION INSURANCE TO BE INCLUDED.

O	John		
Countereigned by	,	Authorized Represent	tetive

WC 04 03 06 (Ed. 4-84)

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS (FORM B)

This endorsement modifies insurance provide under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

Name of Person or Organization:

SCHEDULE

WEBCOR/OBAYASHI JOINT VENTURE, Its Officers, Directors and Employees

AND

TRANSBAY JOINT POWERS AUTHORITY, its Board Members and Commissions, All Authorized Agents and Representatives, and Members, Directors, Officers, Trustees, Agents and Employees of Any of Them.

RE:

TRANSBAY TRANSIT CENTER BUILDING.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that Insured by or for you.

If required by your agreement with such insured, this insurance shall be primary insurance for such Insured. If anyone also provides similar insurance for such Insured, then that insurance will be primary, and this insurance will be excess over, or secondary to that insurance.

"The insurance afforded by this policy for the additional insured(s) is primary insurance and any other insurance maintained by or available to the additional Insured(s) is non-contributory."

WAIVER OF SUBRAGATION - WORKERS COTH

CG 20 10 11 85



TRANSBAY TRANSIT CENTER

LEED Subcontractor Submission Letter and Data Sheet

March 4, 2013 Revision 2

WEBCOR/OBAYASHI JOINT VENTURE SAN FRANCISCO, CA

EXHIBIT E



Webcor/Obayashi Joint Venture 175 Beale Street San Francisco, CA 94105 T 415-978-5700

To Whom It May Concern:

In our efforts to complete LEED Documentation for the **Transbay Transit Center Project** we will need the following information provided on your official company letter head:

- 1. Company Name & Contact Information
- 2. Contract Value
- 3. Progress Report Date
- 4. Scope of work included in Contract with specific Division and Sections listed.
- 5. **List of all materials permanently installed on the project**, within the LEED boundary that were included in the contract. A total estimated weight value and total actual material cost must be provided for each material. Please provide exact Material name & manufacturer, division and specification section number (XX XX XX).
- 6. Recycled content (post-consumer and pre-consumer broken out separately) percentages for each material from CSI Masterformat 2004 Edition Divisions 3-10, 31 (Section 31 6X XX Foundations) and 32 (Sections 32 1X XX Paving, 32 3X XX Site Improvements, 32 9X XX Planting). Please provide cut sheets of each material with the recycled content values posted.
- 7. List the location of material extraction (city, state, country) and material manufacturing (city, state, country) for all materials from CSI Masterformat 2004 Edition Divisions 3-10, 31 (Section 31 6X XX Foundations) and 32 (Sections 32 1X XX Paving, 32 3X XX Site Improvements, 32 9X XX Planting). Specifically, we are looking for those materials that were **both extracted and manufactured** within 500 miles of the jobsite. If you are sure that your materials do not comply as Regional Material, please note that the material was extracted/manufactured "greater than 500 miles" from the jobsite.
- 8. If you provided any adhesives, sealants, coatings, paints, carpet systems, etc. please be sure to include these materials on your spreadsheet with the actual VOC content (g/L). Please provide proof in the form of a cutsheet, or MSDS highlighting the VOC content value.
 - a. All particleboard, MDF, Agrifiber, Veneers, and composite wood products must be **Urea-Formaldehyde free**. Please note "*Urea-Formaldehyde free*" in the VOC column for these material types. All Agrifiber/composite wood products must provide proof of being Ureaformaldehyde free in the form of MSDS, Cut Sheet, or Letter from the Manufacturer.
- 9. For all materials that contain wood, please specific the FSC Wood **Chain of Custody number** (COC). The COC Certificate and **original purchasing invoices** must be provided as proof of purchase/certification.

LEED Submittals:

- A. Preliminary LEED Material Spreadsheet Submittal Within 30 days of Contract award, assemble and submit the "LEED Material Tracking Spreadsheet" complete with all data described in 4-8 above. Cover letter and back up documentation are require_for this submittal. The quantities, costs, products, and LEED metrics should be entered in the spreadsheet as the project/contract scope was bid/ estimated. Please see the sample LEED Material Tracking Spreadsheet that you must complete and submit back to Webcor/Obayashi Joint Venture within 30 days of awarded contract.
- B. Quarterly LEED Progress Reports (Reference 01 81 13 1.5 E 2) Quarterly LEED Progress Reports are due by February 10 (Q1), May 10 (Q2), August 10 (Q3), and November 10 (Q4) of each year. Assemble and submit the "LEED Material Tracking Spreadsheet" in, PDF and Excel formats, complete with all data described in 4-8 above and based on the Preliminary LEED Material Spreadsheet Submittal. All changes from the previous quarter shall be indicated in bold. Update each Material Status with one of the following: Preliminary, Approved, Bought, or Installed.
 - a. Preliminary Indicates the material has been included in its preliminary stage of planning but has yet to be approved by the design team.
 - b. Approved Indicates the material has been approved by the Design Team as meeting all requirements specified. Include Design Team submittal approval.
 - c. Bought Indicates the material has been bought out after approval by the Design Team.
 - d. Installed Indicates the material has been permanently installed on the project within the LEED boundary.
- C. Final Exhibit E Submittal Prior to closeout, assemble and submit all 'actual' LEED material information on the "LEED Material Tracking Spreadsheets" and forms provided in the Project Manual, together with all supplemental documentation as required by LEED. Please see the sample LEED cover letter and Material Tracking Spreadsheet that you must complete and submit back to Webcor/Obayashi Joint Venture prior to closeout on the project.

If you have any questions or concerns, please contact Webcor/Obayashi Joint Venture. If there is any information that you are not able to track down please let us know. We are here to support your LEED efforts.

Sincerely,

WEBCOR/OBAYASHI JOINT VENTURE

[Insert your company logo]
[Type the sender address]
Phone: [Type the sender phone number]

Document Control
 Transbay Transit Center
 Webcor/Obayashi Joint Venture
 175 Beale Street
 San Francisco, CA 94105
 docctrl@webcor-obayashi.com

[Date]

To: Webcor/Obayashi Joint Venture,

Please find the following information regarding the scope of work that [subcontractor name] provided to the **Transbay Transit Center project** in San Francisco, CA.

1.	Subcontractor	's LEED Point of	f contact inf	formation:
----	---------------	------------------	---------------	------------

a.	Name:	
	Title:	
	Email:	
	Phone #:	

- 2. The total contract value of our work is \$______
- 3. Final Status of all materials: [use LEED Material Spreadsheet]
- 4. Scope of work (Division/Section): [use LEED Material Spreadsheet]
- 5. List of Materials included in contract value (weight): [use LEED Material Spreadsheet]
- 6. Post-Consumer & Post-Industrial Recycled content values for each material (%):[use LEED Material Spreadsheet]
- 7. Location of Material Extraction & location of Material Manufacturing: [use LEED Material Spreadsheet]
- 8. VOC Content (g/L) for each material: [use LEED Material Spreadsheet]
 - a. VOC values only required for: adhesives, sealants, coatings, paints, carpet & flooring systems
 - b. Confirmation of "Urea-Formaldehyde Free" for Agrifiber products: [use LEED Material Spreadsheet]
- 9. Chain of Custody Number for all FSC Wood Products: [use LEED Material Spreadsheet]

Thank you,

[Insert your company logo]
[Sender Name]
[Sender Title]
[Sender Company Name]
[Date signed]

TTC - LEED Materials Spreadsheet

MEDPOR	7
	OBAYASHI

Trade Group No.:	
Subcontractor Name:	
Total Contract Value:	
Progress Report Date:	

Material Status (Preliminary, Approved, Bought, Installed)	Official Product Name	Material Manufacturer	Division and Section # (XX XX XX)	Actual Cost of Material	Total Weight of Material Purchased	Post Consumer Recycled Content %	Pre Consumer Recycled Content %	Location of Material Extraction	Location of Material Manufacturing	VOC Content (g/L) (if applicable)	FSC Chain of Custody # (if applicable)



Webcor/Obayashi Joint Venture

I. Introduction

Webcor/Obayashi Joint Venture is implementing a virtual building process for this project. This process will include building a digital, three-dimensional Building Information Model (BIM) linked to a project cost and labor productivity database, which will provide a platform for collaboration throughout the project's construction. In implementing this virtual building process as further outlined below, the Subcontractors will have the ability to analyze different construction sequences and methods for construction. In turn, the Subcontractor's provision of accurate virtual building data facilitates analysis and mitigation of potential costs and scheduling impacts.

The participants will adhere to the following guidelines in connection with this virtual building process. The costs of all management, administration, software, modeling, drafting, transmission, submittal, meetings, etc. for this process shall be the responsibility of the subcontractor and are included in this Subcontract.

II. 3D Modeling Requirements

Subcontractors will be a part of a team that will meet at least bi-weekly, but not more than twice weekly, for coordination meetings to model the building and its systems, coordinate the work, and build the project virtually. The objectives of these meetings include the elimination of as many conflicts and clashes as possible and the development of reliable schedules that allow for efficient workflow and effective production control. The coordination meetings will occur in multiple phases and as described for Target Schedule Development (TSD) in Subsection IV, Item a, below, but shall precede the TSD at each listed phase.

Webcor/Obayashi Joint Venture will manage and lead the coordination process and assist the subcontractors in bringing the individual models together, running clash detection reports, and generally coordinating the process. The individual participants will be partners in this process, model their work, coordinate this with other trades and building components, obtain submittal approvals from the architect and engineers of record, and relocate/modify their systems as necessary when conflicts arise.

The 3D model consists of geometry control models generated and provided by Webcor/Obayashi Joint Venture and/or the Owner's design team from the 3D Database and system models generated and provided by the Subcontractors for their respective scopes of work. The system models, when integrated with the geometry control models, are referred to as the "Federated Model."

The Subcontractor's system models are the Subcontractor's sole responsibility. Prior to commencing any modeling, the Subcontractor must coordinate the initial model orientation with Webcor/Obayashi Joint Venture. All information in the system models shall be consistent with and based on the Contract Documents. The system model shall be maintained throughout the duration of the Project and updated to reflect as-built



Webcor/Obayashi Joint Venture

conditions. The degree of detail and accuracy of the Subcontractor's system models shall be sufficient to enable accurate and complete clash detection as well as shop drawing extraction. Subcontractors will be required to print their shop drawings directly from the Federated Model, including dimensions, elevations and location of specific trade elements, based off of the building grid and/or coordinates. The printed material shall comply with the submittal requirements noted elsewhere in the contract documents. Lastly, to allow for model quantity extraction for cost and schedule information, the Subcontractor shall coordinate breakdown and classification of systems in the systems model with Webcor/Obayashi Joint Venture.

The Subcontractor's system models shall be fully compatible with Autodesk Revit, Tekla, or Graphisoft ArchiCAD in the version contemporaneously current with Subcontractor's initial submission of its system model, or the version immediately preceding the contemporaneously current version. It shall be the responsibility of the Subcontractor to maintain this compatibility at its own expense. If more trade specific software is required for a particular system model, Subcontractor must obtain Webcor/Obayashi Joint Venture's prior consent to utilize such software.

The Subcontractor shall transmit its system model to Webcor/Obayashi Joint Venture's BIM Coordinator who will manage the coordination process. The Subcontractor shall be required to perform clash detections and identify conflicts which shall be communicated to the Project team in a discrepancy report. Subcontractor shall review the identified conflicts as set forth in the discrepancy report and jointly develop conflict solutions and modify their system models accordingly. Trade coordination and model modification shall at all times remain a responsibility of each Subcontractor.

a. Modeling Schedule

Webcor/Obayashi Joint Venture will develop a Modeling Schedule showing modeling and coordination efforts required by all subcontractors in order to meet the construction and installation performance shown in the Exhibit I Project construction schedule. Subcontractor will be required to maintain its performance to meet the dates shown in the Modeling Schedule Subcontractor shall ensure that it provides adequate modeling and coordination manpower to maintain the modeling/coordination schedule.

b. Modeling Coordination Meetings

Subcontractor shall participate in BIM coordination and review meetings with Webcor/Obayashi Joint Venture. Subcontractors can expect these meetings to occur at least weekly or biweekly depending on the projects schedule needs. As a result of the information exchanged at such meetings, both the system model and the Work depicted in the Subcontractor's system model may be required to be changed by the Subcontractor to achieve coordination with other elements of the Project being provided by others. In accordance with General Conditions subsection 1.03.G, Subcontractor will be compensated for the associated BIM coordination efforts under the provisions for



Webcor/Obayashi Joint Venture

Change Orders of Article 6. Subcontractor acknowledges that BIM coordination and review meetings will require attendance of personnel that are familiar with both the data entry aspects of the BIM as well as an understanding of the Work to be performed and its relation to other elements of the Project, and the Subcontractor therefore agrees that personnel conversant in both shall attend all such meetings.

III. Cost and Productivity Data

In addition to the 3-D modeling requirements set forth above, all Subcontractors shall provide accurate cost and productivity information to be imported into a project data base in order to facilitate 4-D (time dimension) and 5-D (cost dimension) modeling. This information shall be broken down such that line items describe work activities for each building system included in Subcontractor's scope of work.

- a. Scheduling Information. Subcontractor shall provide detailed scheduling information including, but not limited to, the following:
 - i. Provide a list of tasks which identify continuous activities that can be performed with other trades.
 - ii. Provide a list of predecessor tasks for each above-defined task that needs to be complete before Subcontractor can start the subject task.
 - iii. Provide a list of preferred minimum work areas breakdown. This breakdown shall be based on the minimum work areas that will be necessary for the Subcontractor to work efficiently.
 - iv. Provide task and specific location-based activity assignments for each item in Subcontractor Submittal Register when submitted in accordance with Exhibit F, Item III.A.12.
 - v. All information noted within this Item 'a.' shall be provided within 15 days of Subcontract award.
- b. Cost Information. Subcontractor shall provide detailed cost estimating information including, but not limited to, the following:
 - i. Provide a cost plan broken down into separate line items for each scheduled task defined as continuous Trade Subcontractor activity without interference from other trades and no less than one task per crew in each work area identified in the Project Schedule and coordinated with Subcontractor's task list per 4-D (time dimension) above.
 - ii. Each estimate line items shall provide labor, material and equipment pricing.
 - iii. Labor components shall include applicable hourly rate(s) and productivity in units per man-hour as well as crew composition.
 - iv. Material component shall be of sufficient degree of detail to provide unit pricing per estimate/schedule line item.
 - v. Equipment component shall include equipment type productivity in unit per machine hour as well as equipment unit cost.
 - vi. General conditions costs shall be listed as a separate line item.



Webcor/Obayashi Joint Venture

- vii. This information shall be provided within 15 days of Subcontract award.
- c. Production Control Requirements.
 - i. Subcontractor shall participate in Production Control Phase Planning sessions as described at Item IV of this exhibit, below, and commit to certain performance based on production rates. By accepting the provisions of this section, Subcontractor expressly agrees to work collaboratively with other subcontractors to promote a high level of productivity and agrees to timely perform its Work so as not to cause delay or disruption of other subcontractors work.
 - ii. Subcontractor shall provide a written report on task progress for each task and at each location on a daily basis and as described in Exhibit F, Item III.B.10. The written report shall include the following Production Control related information for each task, and at each location:
 - i. Actual man hours worked
 - ii. Actual crew size and composition for each task, at each location.
 - iii. Each week, Subcontractor shall submit a marked-up schedule indicating the actual start and actual finish dates, as applicable, for each task, at each location.
 - iv. If a subcontractor fails to meet its required production rate, the Project Team will evaluate the need for additional resources.
 - v. Subcontractors will be required to commit to actions to restore required production rates (Control Actions) if the production rate is too low due to reasons within its own influence.

IV. Project Scheduling and Production Control Phase Planning

Project Schedule, is a critical path method (CPM) schedule that shows the initial plan to construct the project. This schedule sets forth certain dates for performance and a general sequence of construction that is subject to change based on project requirements and as set forth in Section G of the Instructions to Bidders. Because the BIM requirements contained in this exhibit provide an opportunity to develop a schedule that is optimized for subcontractor performance efficiencies, it is the intent of the Project Team to employ production control techniques to manage the day-to-day construction of the Project. This process will proceed generally in the following manner and is affirmatively acknowledged by Subcontractor as follows:

- a. Subcontractor agrees to participate in phased Target Schedule Development (TSD) at completion of each of the following stages of Consolidated Model Development:
 - i. TSD#1 Foundation & Substructure
 - ii. TSD#2 Superstructure & Exterior Envelope
 - iii. TSD#3 Mechanical, Electrical, Plumbing, Sprinkler (Fire) [MEPS]
 - iv. TSD#4 Interior Finishes
 - v. TSD#5 Commissioning



Webcor/Obayashi Joint Venture

- b. Phased Target Schedule Development (TSD) requirements:
 - Subcontractor agrees that durations for Subcontractor's tasks at each location will be calculated based on quantities at each location divided by the Subcontractor's crew production rate
 - ii. Subcontractor agrees to assist with optimization of the overall performance schedule for all trades, working from visualization(s) of labor flow using a Flowline chart (a modified Line of Balance schedule), to:
 - i. Balance the number of crews to improve flow
 - ii. Remove labor or material spikes to increase manageability and reduce site conflicts
 - iii. Use risk analysis to determine buffer placement points and durations required to minimize risk
- c. Subcontractor agrees to participate in Mid-Phase Re-optimization Development at least one (1) additional time following each of the TSD for phases of Consolidated Model Development described in Item A, above:
 - i. Mid-Phase Re-optimization Development (MRD) requirements:
 - Subcontractor agrees that durations for Subcontractor's tasks at each location will be calculated based on quantities at each location divided by the Subcontractor's crew production rate.
 - ii. Subcontractor agrees to assist with optimization of the overall performance schedule for all trades, working from visualization(s) of labor flow using a Flowline chart (a modified Line of Balance schedule), to enable the following:
 - i. Balance the number of crews to improve flow
 - Remove labor or material spikes to increase manageability and reduce site conflicts
 - iii. Use risk analysis to determine buffer placement points and durations required to minimize risk

V. Miscellaneous Provisions

- a. Model Ownership: In accordance with Article 2, subsection 2.07A, BIM files, and other computer files created for the Project shall be made and remain the property of the TJPA, including all intellectual property rights to all documents or materials.
- b. Protection of Intellectual Property or Proprietary Information: Subcontractors who provide intellectual property and/or proprietary information which is incorporated into their models shall provide notification of the confidentiality of the information.
- c. Other Subcontract Requirements: Subcontractor agrees that neither the BIM nor the use of the BIM is in lieu of nor intended to relieve the Subcontractor of its responsibilities under the Subcontract, including, without limitation, to (i) coordinate its Work with the work of others involved in the Project and (ii) strictly



Webcor/Obayashi Joint Venture

- comply with the other requirements of the Subcontract Agreement and the Contract Documents. It is expressly understood and agreed that, notwithstanding the requirement for submittals in connection with the BIM, other submissions shall be required of Subcontractor as required by the Contract Documents.
- d. BIM Liability: Subcontractor acknowledges and agrees that the TJPA and Webcor/Obayashi Joint Venture shall incur no responsibility or liability with respect to the BIM or the use thereof, including that resulting from errors, omissions or deficiencies in the BIM. In the event that Subcontractor provides deficient information or data that does not represent the Work it will ultimately be providing, or that is corrupted in that the information transmitted contains a virus, and/or that otherwise damages the BIM, Subcontractor shall bear all costs associated with reconstructing the BIM and to otherwise remediate such deficiencies and their effects. In the event Subcontractor discovers an apparent error, inconsistency or omission in its information or submissions it shall notify Webcor/Obayashi Joint Venture within 72 hours and via written correspondence. In the event Subcontractor discovers an apparent error, inconsistency or omission in the information or submissions provided by others Subcontractor shall promptly request clarification of the same from Webcor/Obayashi Joint Venture, with a written Request for Information per General Conditions Article 6.03.

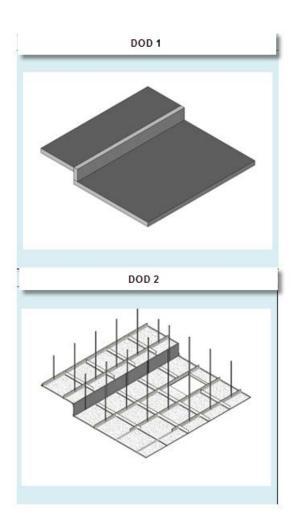
VI. Modeling Specification

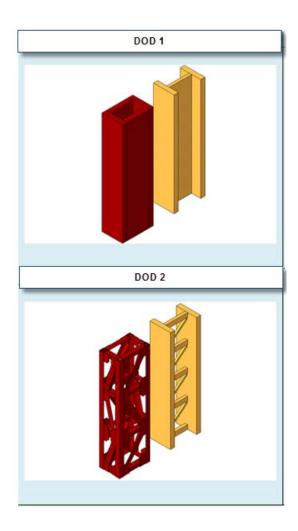
- a. The goal, through 3D coordination, is to create fully coordinated shop drawings derived from using the Models produced and coordinated by each discipline. These models would then be used for scheduling (4D) and cost management (5D) purposes. This section describes the <u>Degree of Detail (DOD)</u> to which each system will be modeled and whether the system should fall under the standard or high level category.
 - i. <u>DOD 1 indicates</u> standard degree of detail where elements match the approximate space and shape the element occupies or the space required to access equipment for maintenance. Accurate geometry of components with rectangular cross sectional geometry. Components of complex cross sectional geometry are approximated with simplified cross sections and modeled with accurate enveloping geometry. Composite structures are modeled with solids. Symbolic representation of fixtures, equipment, furniture and like.
 - ii. <u>DOD 2 indicates</u> a high degree of detail dimensionally accurate, and where applicable, manufacturer specific element (does not require manufacturing/fabrication detail – exterior envelope is required) Accurate



Webcor/Obayashi Joint Venture

geometry of components with rectangular and complex cross sectional geometry. The individual layers of composites are broken down to smaller components and built up piece by piece. Exact representation of fixtures, equipment, furniture and like. The model will include secondary components that may influence coordination, such as gusset plates, secondary steel members, hangers, braces etc.





Please refer to the Trade Specific BIM Requirements below for the list of systems that are required to be modeled.



Webcor/Obayashi Joint Venture

VII. Change Management

Subcontractor will maintain its system model throughout the project duration, incorporating all changes that impact its Work. Subcontractor will update its Work as required through participation in the 3D coordination process outlined above. Subcontract may be required to reextract shop drawings and prepare updated submittals to incorporate changes to its Work.

After each model update for a change package (e.g. ASI), Subcontractor shall archive a copy of its model before incorporation of further changes. Using versions of its system model, Subcontractor shall publish quantity deltas per system between models. Subcontractor will apply it's bought out unit rate for a particular changed system to the quantity delta to calculate the value of the change per the original contract. This value will serve as a baseline to enable change orders negotiations.

Webcor/Obayashi Joint Venture Transbay Transit Center

Exhibit F - Trade Specific BIM Requirements

Trade	System	As-Built Delivery DOD
Bus Ramp (TG18.1)	Cable Stayed Bridge Structure	2
	Steel Box Girder Sections	2
	Cast-in-Place Concrete Viaducts	2
	Cast-in-Place Concrete Overcrossing over Harrison Street	2
	Fremont Off Ramp Connection	2
	MSE (Mechanical Stabilized Earth) Wall Section	2
_	On Grade Road Construction	2
	Miscellaneous Structures/Works	2



Exhibit G

SUBCONTRACTOR PAYMENT REQUISITION

1. Forms Checklist

2. Forms

	Form Number	Form Title
i.	1030	Subcontractor Progress Billing Invoice
ii.	1030A	Schedule of Values
iii.	1031	Subcontractor Final Retention Invoice
iv.	1031A	Schedule of Value Retention Release
٧.	00 08 21/AT3-E (modified)	Progress Payment Report (With Additional SBE Columns)

**This checklist is provided as a reference, but may not be a complete list. Refer to the Contract Documents for all required submissions and their frequency.

_				
#	FORMS	FORM	FREQ	REF
		00 08 20/AT1 00 08		
1	CityBuild Workforce Projection Form 1 and 2 - Non-compliance results in removal from site	20/AT2	Initial	Div 00 08 20 1.7
			Initial /	
2	Schedule of Values	1030A	Monthly	Exhibit G
			Daily /	
3	Daily Report (must be CURRENT at the time of pay app submission and payment)		Monthly	Bid Manual IV. A. 4. c.
4	Subcontract Progress Billing Invoice	1030	Monthly	Exhibit G
5	Conditional Waiver and Release Upon Progress Payment	1034	Monthly	Exhibit C
6	Unconditional Waiver and Release Upon Progress Payment	1035	Monthly	Exhibit C
7	TJPA ARRA Jobs Report Form	v 1.2	Monthly	Div 00 08 13, 1.2.E & APF
8	Manpower Projection	V 1.2	Monthly	Bid Manual IV. A. 38. a.
9	Billing Projection / Cashflow Projection		Monthly	Bid Manual IV. A. 37. a.
_		00 00 21 /AT2 D		
_	TJPA Progress Payment Report	00 08 21/AT3-D	Monthly	Div 00 08 21, 1.5.B
11	Subcontractor Payment Declaration	00 08 21/AT3-E	Monthly	Div 00 08 21, 1.5.C
12	Project Specific Insurance (Must be CURRENT)		Monthly	Long Form Subcontract 16
	Certified Payroll, weekly electronic submission (CURRENT at the time of pay app submission		Weekly /	
13	and payment) including subtiers		Monthly	Long Form Subcontract 4.2
		a) Copy of trust fund		
		remittance report w/		
		copy of cancelled check		
		OR		
		b) DAS Form CAC 2 w/		Bid Manual II. F. 6. c. & Long Form Subcontract 4.2 &
14	Apprentice Training Fund Contributions proof of payment	copy of cancelled check	Monthly	Div 00 08 22 1.2 D.
<u> </u>	Apprenticeship min/max ratio verification - if under, submit a plan to satisfy requirement by	, ,	, , , , , , , , , , , , , , , , , , , ,	
	the end of the project without exceeding daily max; if over, provide written explanation for			
15	each day of violation		Monthly	Bid Manual
-	,			
16	Apprenticeship Monthly Trade Subcontractor Affidavit	DAC 142	Monthly	Bid Manual, Exhibit Q
17	Request for Dispatch of an Apprentice (DAS 142 Form) - if any	DAS 142	Monthly	Bid Manual
	Apprentice documentation - documentation on employed apprentices that are current and			
_	properly registered as required by specs		Monthly	Div 00 08 13/APA, Section 23 (d) (1)
19	EIC Form from eligible subcontractor employees		Yearly	Div 00 08 22 1.9 C (all of 1.9)
20	LEED - NC Version 3.0 (monthly summaries and deliverables)		Monthly	Bid Manual IV. A. 40. a. and Div 01 81 13 1.5 D.1-4
	Reconciled Excel submittal form with Trade Package Progress Schedule (2 times a month) -			
	NOTE: In Div 01 our updated schedule must be submitted in our Progress Payment Request,			
21	see 01 13 10 1.5 E.		Monthly	Bid Manual IV. A. 35. f. and C.1.J
	Weekly Safety "Tool Box" Meeting Minutes (must be CURRENT at the time of pay app		Weekly /	
22	submission and payment)		Monthly	Bid Manual IV. B.
	JHA Reports (Job Hazard Analysis Reports) (must be CURRENT at the time of pay app		,	
23	submission and payment)	H4	Monthly	Bid Manual IV. B.
-		00 08 15 / APA - 1 and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2/	Monthly Disposal and Recycling Summary Report (Waste Management Requirements)	00 08 15 / APA - 12	Monthly	Div 00 08 15 1.5 C 1 and 2
	(Contractor) CONSTRUCTION AND DEMO DEBRIS RECOVERY MONTHLY SUMMARY REPORT	00 00 13 / 11 11 12	Wiching	51V 00 00 13 1.3 C 1 und 2
25	monthly with Pay App		Monthly	Div 01 74 00 1.8 A. B.
23	, , , , ,		IVIOITITITY	DIV 01 74 00 1.8 A. B.
	DBE Trucking Verification, due at end of month, need amount paid by DBE Trucking	MA- while DDF Too ship -		
	companies to all firms, including owner-operators, for leasing of trucks - DUE TO TJPA by	Monthly DBE Trucking		
26	Contractor on the 15th of the month to TJPA	Verification Form	Monthly	Div 00 08 21/AT2 5 b. i. and ii.
27	Up to date As-builts drawings on site at all times		Monthly	Bid Manual IV. K. 1. a.
28	Stored Materials Documentation		Monthly	Div 00 07 00, 1.4.I
	Daily Sign In and Out Sheet (must be CURRENT at the time of pay app submission and		Daily /	
29	payment)	TJPA Daily Sign-in Sheet	Monthly	Div 00 07 00 57, Article 11, 11.04
	Daily Quality Control Reports (must be CURRENT at time of pay app submission and			
30	payment)		Daily	Dic 00 14 00 1.12 and Exhibit J
	Trade Package Progress Schedule update in electronic format (must be CURRENT at the time			
31	of pay app submission and payment)		Monthly	
32	LEED Progress Reporting with each pay app		Monthly	
	Updated Bidders / Proposers Information Request Form - must be submitted whenever			
33	subcontractor information is updated, regardless of SBE participation	00 08 21/AT3-B	As-needed	Div 00 08 21 1.3E
34	Conditional Waiver and Release Upon Progress Payment - subtiers and vendors	1034	Final	Exhibit C
_	Unconditional Waiver and Release Upon Progress Payment - subtiers and vendors	1035	Final	Exhibit C
36	Subcontractor Final Retention Invoice	1031	Final	Exhibit G
37	Schedule of Values Retention Release	1031A	Final	Exhibit G
38	Conditional Waiver and Release Upon Final Payment	1036	Final	Exhibit C
39	Unconditional Waiver and Release Upon Final Payment	1037	Final	Exhibit C
\vdash	·	1037		
40	Conditional Waiver and Release Upon Final Payment - subtiers and vendors		Final	Exhibit C
41	Unconditional Waiver and Release Upon Final Payment - subtiers and vendors	1037	Final	Exhibit C
	Final weekly electronic submission of Certified Payroll (must be CURRENT at the time of pay		L	
42	app submission and payment) including subtiers		Final	Long Form Subcontract 4.2
	One compact disk containing electronic files in .dwg format and pdf format and three (3) sets			
	of accurate and complete As-built drawings - Complete As-builts are due upon completion			
43	prior to requesting final payment		Final	Bid Manual IV. K. 1. e and f.
	Operations and Maintenance Manuals shall be submitted 12 months prior to start of			
44	commissioning and prior to requesting final payment		Final	Bid Manual IV. K. 1. f.
	Evidence of final payment to Unions and Union Trust Funds, State Apprenticeship Programs			
45	(subs who are not signatory to unions)		Final	Long Form Subcontract 4.2
	· · · · · · · · · · · · · · · · · · ·	1		○

Forms Checklist

**This checklist is provided as a reference, but may not be a complete list. Refer to the Contract Documents for all required submissions and their frequency.

#	FORMS	FORM	FREQ	REF
	Apprenticeship Trade Subcontractor Affidavit - that the required number of apprentices			
	were employed and/or records showing that the apprenticeship committee(s) either denied			
	or failed to respond to a request for the dispatch of apprentices in accordance with Labor			
46	Code Section 1777.5		Final	Bid Manual, Exhibit Q
47	Warranties must be submitted prior to requesting final payment		Final	Div 01 17 00 1.4 A 3. b.
48	Spare Parts and material extra stock		Final	Div 01 17 00 1.4 A 3. d.
49	Final (Contractor) CONSTRUCTION AND DEMO DEBRIS RECOVERY SUMMARY REPORT		Final	Div 01 74 00 1.8 D.
50	Final LEED Final Reports and Documentation		Final	Bid Manual IV. A. 40. a. and Div 01 81 13 1.5 D.1-4
		00 08 15 / APA - 1 and		
51	Final Disposal and Recycling Summary Report (Waste Management Requirements)	00 08 15 / APA - 12	Final	Div 00 08 15 1.5 C 1 and 2



Subcontractor Progress Billing Invoice

Send invoice to:

EMAIL: ap@webcor.com **FAX**: (510) 748-3474

MAIL: 1751 Harbor Bay Parkway, Suite 200 Alameda, CA 94502

Billing Information Subcontractor Contact Information Owner Pay App NO. Subcontractor Name: Vendor Number Remittance Address: Webcor/Obayashi Joint Venture Subcontract Number: City, State, Zip: Webcor/Obayashi Joint Venture Job Number: 30100.XX Contact Name: **Transbay Transit Center** Contact Email Address: Job Name: Pay App Number: Contact Phone Number: **Invoice Number:** Contact Fax Number Print Signer's Name and **Invoice Date:** Title: Sub Job Number: **Period From: Signature Period To: Date Signed** The following invoice covers work completed through the last day of **Original Contract Amount:** \$0.00 **Executed Change Orders (CO) though CO No:** \$0.00 **Total Revised Contract Amount:** \$0.00 Gross Amount Complete to Date % \$0.00 Less Gross Amount Previously Invoiced: \$0.00 **Current Gross Billing Amount:** \$0.00 Less Current Retention: \$0.00 **Current Net Amount:** \$0.00

Webcon/Obayashi Joint Venture Approvals below this line

Form 1030 Exhibit G

Schedule of Values

Sub: Sub No.:

Transbay Transit Center

Sub Application Number:

30100.XX

Period From: Period To:

Invoice Date: Webcor/Obayashi Joint Venture Job No:

In tabulations below, amounts are stated to nearest dollar

	∢		В	ပ	Ω	ш	ш	O	Ξ	_	7
	ō	d				Work Completed	mpleted	Total	ò	Balance	Retention
Item	<u>.</u>		Description of Work	nled	Previous		lication	lo Date	» į	I o Finish	lo Date
No.	Division	Section		Value	Application		Stored	(C+D+E)	(F/B)	(B-F)	
1											
7											
3											
4											
9											
9											
7											
8											
			Sub Total								
# OOd	CSI Division	SCO No.	Approved Change Orders								
			Total Change Orders								
			Grand Total								



Subcontractor Final Retention Invoice

Send invoice to:

EMAIL: ap@webcor.com **FAX**: (510) 748-3474

MAIL: 1751 Harbor Bay Parkway, Suite 200 Alameda, CA 94502

Billing	Information	Su	ıbcontracı	tor Contact Informati	on	
Vendor Number (W/O JV Use Only)		Subcontractor Name:				
Invoice Number:	RETENTION:	Remittance Address:				_
Invoice Date:		City, State, Zip:				-
Webcor/Obayashi JV Subcontract Number:		Contact Name:				
Webcor/Obayashi JV Job Number: Job Name:	30100.XX	Contact Email Address: Contact Phone Number:				
Transbay Transit	Center	Contact Fax Number Print Signer's Name and Title:				-
		Signature & Date			Date Signed	1
The following invoice cov	ers work completed throug	h the last date of		(Month),	(Year):	
Contract Amount:			\$		-	
Executed Change Orders	Through Change Order N	O:	\$		_	
Total Revised Contract A	mount:		\$			
Gross Amount Complete	to Date % (%)	\$			
Less: Total Net Amount	Previously Billed:		\$			
Total Amount Due:			\$			

For Webcor /Obayashi JV Use only

Form 1031 Exhibit G

Schedule of Values Retention Release

Sub: Sub No.:

Transbay Transit Center

Sub Application Number:

30100.XX Invoice Date: Webcor/Obayashi Joint Venture Job No:

In tabulations below, amounts are stated to nearest dollar

Period From: Period To:

		_	_	_												 	
ſ	Retention	lo Date															
_	Balance	lo Finish (j. r.)	(B-F)														
エ	,	ِ وَ	(F/B)														
9	Total	lo Date	(C+D+E)														
ш	npleted	Ication	Stored														
Ш	Work Completed	I his Appi	In Place														
۵		Previous	Application														
ပ		_	Value														
В		Description of Work										Sub Total	Approved Change Orders			Total Change Orders	Grand Total
	d	Spec	Section										SCO No.			•	
٧		<u>,</u>											CSI Division				
	-	Item	No.	_	2	3	4	5	9	7	8		PCO#				

TRANSBAY JOINT POWERS AUTHORITY PROGRESS PAYMENT REPORT (WITH ADDITIONAL SBE COLUMNS)

e completed by Trade Subcontractor and submitted to Project Manager with every monthly invoice.

PART 1: PROJECT SUMMARY				
	TJPA Contract No.:	:0	Contract Title:	
Trade Subcontractor:		Contact Person:	Contact Phone No.:	Contact Email:
Trade Subcontractor Address		Signature:	ле:	
Invoice Date:		Invoice No.:	For the Period:	:

1. Award amount of Trade Subcontract	
2. Amount of Change Orders, Amendments and Modifications to Date	
3. Total Contract Amount to Date including Change Orders, Amendments and Modifications (Line 1 + Line 2)	
4. Total Amount for this Invoice (Less Retention)	
5. Total Previously Invoiced Awaiting Payment (Less Retention)	- \$
6. Total Amount Paid to Date (not including Lines 4 and 5)	- \$
7. Total Invoice Amount Requested to Date (Line 4 + Line 5 + Line 6)	- \$
8. Total Retention to Date 1	
9. Percent Complete ([Line 7 + Line 8] / Line 3)	%0

TRANSBAY JOINT POWERS AUTHORITY PROGRESS PAYMENT REPORT (WITH ADDITIONAL SBE COLUMNS)

PART 2: CONSULTANT/SUBCONSULTANT PAYMENT DETAIL SUMMARY

R	Percent SBE Paid to Date (Q/I)	#DIV/0!											
ò	SBE Amount Paid to Date (\$)												0
P	Percent SBE Contract Amount (O/F) (%)	#DIV/0!											
0	SBE Total Contract Amount ² FxM+N (S)	80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
N	SBE Participation Lump Sum³ (\$\$)												0
M	SBE Participation Percentage ³ (%)												0
Г	SBE Participation Type ²												0
К	Percent Complete to Date ([G+H+I +J]/F) (%)	#DIV/0!											
ſ	Percent Complete to Date Paid to Date (G-H+H) (G-H+H) (S) (S) (%)												0
1	Total Amount Paid to Date (\$)												0
Н	Previously Invoiced Awaiting Payment (\$)												0
9	Amount Invoiced This Period (\$)												0
Ħ	Total = Contract Amount of Amount + Change Orders Change Orders (Date (D+E) (S)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
3	Amount of Change Orders to Date (\$)												0
Q	Contract Amount (\$)												0
О	Portion of Work (%)												0
В	DBE or SBE (Y/N)												
Ą	Name of Firm (Including Prime, Subs, Vendors, and Joint Ventures) ⁴												TOTAL

¹ As retention is requested and paid, move out of "Total Retention to Date" and into "Amount Paid to Date"
² SBE Participation Types; (Select 1 Only) SBE Prime Contractor, SBE Subcontractor, SBE Joint Venture Partner, SBE Regular Dealer, Other SBEs, SBE Trucking Company (refer to TJPA Board Policy No. 015 Section IV)
³ If SBE participation is Other SBE, SBE Joint Venture Partner or SBE Trucking Company enter lump sum participation in column N in lieu of column M (Refer to TJPA Policy No. 015 Section IV)
⁴ If SBE Firm has multiple participation types each type should be listed as separate line item



TRANSBAY TRANSIT CENTER

Site Specific Safety Program Revision 6

August 22, 2012

WEBCOR/OBAYASHI JOINT VENTURE SAN FRANCISCO, CA

EXHIBIT H

Contents

WEBCOR/OBAYASHI JOINT VENTURE STATEMENT ON SAFETY	5
HEALTH AND SAFETY COMMUNICATIONS	6
Orientation	6
Click Safety Program	6
Project Requirements	6
Project Fees	6
ClickSafety Account Setup, User Registration and Implementation	6
Disclaimer	7
Project Supervisory Requirements	7
Project Safety Staffing Requirements	7
SafeSiteOne Safety Inspection Program	8
Pre-Task Planning/Job Hazard Analysis	g
General Job Hazard Analysis Guidelines	g
Incident Reporting/Root Cause Analysis	
Safety and Health Training/Information	10
CODE OF SAFE CONDUCT AND WORK PRACTICES	11
General	11
Contractor Weekly Safety Meetings	11
Personal Protective Equipment	12
Contractor Parking	12
Job Vehicular Traffic and Material Deliveries	12
Temporary Offices	13
Fire Protection	13
Cleanup and Housekeeping	13
Drinking Water	13
Security Services	13
Noise Control	13
Combustible Material (Gas, Oil, Oxygen)	14
Ladders	14
Scaffolds	14
Fall Protection	14
Electrical	15
Lockout/Tag out Procedures	15
Floor Openings/Hole Cover Procedures	15

Safe Lifting	15
Powder Actuated Tools	15
Dismissal From Project	16
First Aid	16
Use of Tools and Equipment	16
Hazardous Material Handling	16
Hazardous Communications Program	17
Confined Space	17
Traffic Work Zone Signaling Requirements	17
Equipment	17
Excavation and Trenching	17
Respiratory Protection	18
Crane Lift Plan Process Requirements	19
Cranes, Hoisting and Rigging	20
HAZARD COMMUNICATION STANDARD POLICY	
EMERGENCY MEDICAL PROCEDURES	24
Minor Injuries	24
Major Injuries	24
ACCIDENT / INJURY MANAGEMENT	25
Accident Reporting	25
Accident Investigation	25
Accident Analysis	26
RESPONSIBILITIES FOR SAFETY and LOSS CONTROL	26
Overview	26
Webcor/Obayashi Joint Venture Management Team	27
Subcontractor Responsibilities	32
Everyone's Responsibilities	35
SAFETY DISIPLINARY POLICY	36
LADDER SAFETY RULES	37
GENERAL MATERIALS HANDLING SAFETY	39
FIRE PREVENTION PROGRAM	41
APPENDIXES	44
ASBESTOS ABATEMENT PROGRAM	44
LEAD ABATEMENT PROGRAM	50
INCIDENT REPORTING INSTRUCTIONS	52

INCIDENT INVESTIGATION REPORT FORM	53
INJURED WORKER STATEMENT	59
EMPLOYEE WITNESS STATEMENT	61
SUPERVISOR STATEMENT	62
RETURN TO WORK PROGRAM	63
RETURN TO WORK AGREEMENT	64
MODIFIED DUTY OFFER LETTER	65
ELEVATED WORK	66
RESPIRATORY PROTECTION PROGRAM	72
SILICA EXPOSURE PROGRAM	74
CONCRETE CODE OF SAFE PRACTICES	78
FORMS	87
MANAGEMENT INSPECTION REPORT	88
DAILY PROJECT INSPECTION	89
EQUIPMENT SAFETY INSPECTION CHECKLIST	
JOB HAZARD ANALYSIS	91
WELDING / CUTTING "HOT WORK" PERMIT	92
HEAT ILLNESS PREVENTION POLICY	94

WEBCOR/OBAYASHI JOINT VENTURE STATEMENT ON SAFETY

It is the policy of Webcor/Obayashi Joint Venture to provide employees a safe place to work. The personal safety and health of each employee of this company is of prime importance. The prevention of accidents and injury will be given precedence over operating productivity whenever necessary. To the greatest degree possible, management will provide facilities required for personal safety and health.

Our objective is a program that will reduce the number of injuries to a minimum and to surpass the best experience of other operations similar to ours. Our goal is zero accidents and injuries.

Our policy will be implemented as follows:

- Management will continue to develop policies and procedures that will assist in the control of
 personal injury, property losses, and fleet damage. Direct and indirect costs associated with these
 types of losses contribute unfavorably to operating expenses. These policies and procedures will be
 reviewed and updated as needed.
- Safety is the direct responsibility of all personnel. Safety is of prime importance to production and quality.
- Safety on the job in all company facilities and job sites is a priority. In no instance will safety become secondary to any other considerations. Any recognized safety activity or hazard will be corrected.
- It is mandatory that all personnel engaged in work on this project comply with all Federal, State and Local safety codes and regulations throughout the duration of their construction on this project.
- Each site will have a supervisor available to support the safety effort.
- Each supervisor and employee will be assigned various levels of safety responsibility and authority. All employees will be held accountable for the safety policy.
- An established system of communication, measurement, and documentation exists throughout the company.

A Safety Committee is in place to formulate and update the company safety program and policies. This committee operates under the supervision of management.

HEALTH AND SAFETY COMMUNICATIONS

Orientation

This training will contain required elements stipulated by Webcor/Obayashi Joint Venture code of safe work practices.

The Webcor/Obayashi Joint Venture site-specific safety orientation will be approximately one half (1/2) hour to 45 minutes in duration. The orientation includes a discussion on site protocol, evacuation procedures and a description of the logistics of the site. Subcontractors are required to provide other task specific orientations as needed.

Click Safety Program

Project: Transbay Transit Center

Notification of Online Contractor Safety Training Initiative

Webcor/Obayashi Joint Venture and ClickSafety have partnered to create a web-based Contractor Safety orientation course for the Transbay Transit Center. All contractors requiring access to the Transbay Transit Center project must complete the Safety Passport orientation-training course online through ClickSafety. This course addresses site-specific safety expectations/requirements that you and your employees are expected to understand and comply with while working on the premises.

Project Requirements

ClickSafety is the leading provider of web-based safety and risk management systems for the Construction Industry. ClickSafety will be providing the online training and tracking system used to deliver safety orientation. You will be required to have <u>ALL</u> your employees successfully complete the online **Safety Passport Orientation**, **Transbay project specific training** and the **Click Green Construction Practices** through the ClickSafety system prior to their arrival onsite. The average employee should take <u>30 minutes</u> to complete the Safety Passport and 15 minutes for Transbay project specific training and 10 minutes to complete Click Green Construction Practices. The course will be available in both English and Spanish.

Project Fees

The fee structure for ClickSafety services is a*\$100 annual fee per user.

The prorate schedule is as follows:

January 1 – March 31	\$100	Valid January - December 2012
April 1 – June 30	<i>\$75</i>	Valid April 1 – December 2012
July 1 – September 30	\$50	Valid July 1 – December 2012
October 1 – December 31	\$25	Valid October 1 – December 2012

ClickSafety Account Setup, User Registration and Implementation

Step 1: Go to the project page - http://www.clicksafety.com/safetypassport-transbay

Step 2: Create a company account. **If you already have an account with ClickSafety, you will still need to register your <u>existing</u> account for this project. Click on the 'Company' tab above the 'User' Step 1 on the home page, and then click on 'Register Company'.**

^{*}Prorate will apply to those that begin the training after Q1 of the current year.

- Step 3: Assign Safety Passport Core Orientation (annual training) along with site specific training.
- Step 4: Prepay for employee training with a credit card and create an access code.
- Step 5: <u>Direct all employees to the project page to self-register with your access code and complete</u> training prior to arrival at the jobsite.

For general information about this project or registration assistance, please contact: ClickSafety Support at (925) 855-SAFE (7233) ext. 629 - cshelp@clicksafety.com

A ClickSafety representative is available to answer any of your questions about this program. The ClickSafety program administrator is: Christina Parkin, Account Manager, (925) 208-2618, Email: cparkin@clicksafety.com.

Should you have specific questions regarding the project or safety requirements, you may contact:

Danielle DiRicco

Safety Engineer Webcor/Obayashi Joint Venture T (510) 748-1978 ddiricco@webcor.com

We appreciate your attention in this matter and look forward to a continuing and successful business relationship.

Disclaimer

ClickSafety and Webcor/Obayashi Joint Venture make this training material available with the understanding that users exercise their own skill and care with respect to its use. It is the duty of each employer as specified in the Occupational Safety and Health Act of 1970 (P.L. 91-596) to furnish to each of his employees employment and a place of employment which is free from recognized hazards that are causing or likely to cause death or serious physical harm to his employees and must comply with the applicable occupational safety and health standards adopted for his / her type of work. In addition, each employee must comply with occupational safety and health standards and all rules, regulations, and orders which are applicable to his or her own actions and conduct.

Project Supervisory Requirements

All supervisory personnel shall have as a minimum the OSHA 30 Hour Construction Safety training within the prior four years and possess a current CPR /First Aid and AED certification. In addition supervisory personnel shall have at a minimum 5 years' experience as a superintendent in a similar type of project.

Project Safety Staffing Requirements

Every trade subcontractor shall employ (1) full time on Site Safety Representative (SSR) to coordinate project safety requirements. The SSR shall have at a minimum all the following qualifications:

- 1. Current CHST certification.
- 2. Attended the OSHA Standards for the Construction Industry (OSHA 500) training program.
- 3. (3) Years prior full time safety duty experience working in a like project or condition.
- 4. Current CPR /First Aid and AED certification.

The SSR shall have no duties other than full time safety and the administration and coordination of the Zone Designated Safety Representative (DSRs).

In addition to the SSR every trade subcontractor shall employ sufficient full time Designated Safety Representative(s) (DSRs) required to have (1) dedicated DSR in every Zone (per sheet SL-004) in which work is in progress regardless of shift, including day shift, off-hours shift work, or weekend work. The DSR shall have at a minimum all the following qualifications:

- 1. Current OSHA 30 certification
- 2. Attended the OSHA Standards for the Construction Industry (OSHA 510 or equivalent) training program.
- 3. (2) Years prior full time safety duty experience working in a like project or condition.
- 4. Current CPR /First Aid and AED certification.

The DSR shall have no other duties than full time safety and spend 90% of their day in the field at the designated Zone.

The SSR and DSR(s) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel shall be provided at the subcontractor's/employer's expense.

SafeSiteOne Safety Inspection Program

Daily safety inspections using SafeSiteOne are required for all Subcontractors performing labor at the jobsite. SafeSiteOne is a Web-based safety software product that is used by Webcor/Obayashi Joint Venture to document, track and analyze daily job site safety performance. A version of the product has been designed to provide Webcor/Obayashi Joint Venture subcontractors with an easy to use feature set delivering new safety process efficiencies, safety performance tracking and a convenient, cost-effective means to comply with Webcor/Obayashi Joint Venture subcontractor safety documentation and reporting requirements. A job site safety inspection form and accident form are provided for subcontractors to document their own work area safety inspections and worker accident and injury information for automated distribution to Webcor/Obayashi Joint Venture eliminating the time and cost burdens of maintaining separate manual processes for documentation, reporting and data distribution. Accident and safety violation tracking tools in the way of data tables and charts displayed on an information Dashboard are provided for subcontractors to monitor their job site safety performance, identify and respond to trends and indicators and continuously improve their safety strategies. Using the product, subcontractors can view all job site safety violations to which they are assigned by Webcor/Obayashi Joint Venture during Webcor/Obayashi Joint Venture site safety inspections and be able to respond and track their closure. Subcontractors will be able to track their own safety records relative to the performance of all subcontractors on the job site providing an ongoing assessment and identifying accomplishments of their safety performance. Subcontractors shall include \$75.00 per month to cover the costs of the SafeSiteOne Product.

A SafeSiteOne Daily Inspection is to be completed by each **Trade Subcontractor** DSR and Field Supervisor(s) (Foreman and above) daily. Safety exceptions are to be addressed to the SSR. Traffic control exceptions are to be addressed to the General Superintendent. Observed exceptions / violations are to be recorded under Comments and assigned to the responsible person. Verbal exceptions / violations are unacceptable unless they are also recorded under the Comments column. The cumulative amount of a Trade Subcontractor's exceptions noted under comments for the month shall be no less than Webcor/Obayashi Joint Venture's cumulative exceptions for the month. The SSR, General Superintendent, and or responsible party shall promptly, competently, and completely respond to every

Safety Memo. <u>Recept of progress payment may be contingent upon staying current with completed</u> SafeSiteOne Surveys and Safety Memos.

Additional features, forms and product customizations can be made available to subcontractors by contacting MedicaOne directly at info@medicaone.com or by calling (415)661-7587. More information is also available by visiting the SafeSiteOne Web site at www.safesiteone.com.

Pre-Task Planning/Job Hazard Analysis

Written, detailed Job Hazard Analysis is required prior to the start, *at a minimum*, for the following activities:

- Chemicals: hazardous & irritant
- Concrete: pre-cast, tilt up, vertical, form work
- Confined Space
- Hoisting/rigging activities: including cranes, derricks, forklifts, straddle buggies, etc.
- Demolition activities & hazardous materials assessment: asbestos, lead, biohazards or other chemicals in the workplace, as well as general demolition hazards assessment
- All framing activities (including drywall)
- Excavation & trenching
- Fall hazards: exposures 6+ feet, overhead work
- Material handling
- Non-routine activities: activities not performed in the last six months
- Public exposure: phased occupancy, partial demolition, traffic control, etc.
- Scaffolding
- Steel erection
- Start Up/Shut Down/System Testing activities: tool hook up, introduction of process chemicals into systems, utility tie ins, lockout/tag out, work on energized equipment

General Job Hazard Analysis Guidelines

- JHA planning is to be led by the supervisor and documented in writing
- Conducted daily prior to start of work for every task.
- All crew members participate (at the job location) in JHA planning and should sign the completed plan
- Should include hazards and precautions identified in work activities
- Should be readily available at the work site (posted and/or placed where crew members have knowledge of its location at the work area)

JHA plans should be reviewed and revised whenever work conditions (or crew membership) change that may affect the ability to safely complete the work.

Incident Reporting/Root Cause Analysis

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Documentation and Reporting policy and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Sections 01 13 40 (1.5 A thru C) 01 15 45 (1.9 A thru C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

The TJPA Representative will in writing inform Contractor of any additional hazardous condition encountered. Trade Sub contractor shall respond indicating its action or disposition of the matter by returning an annotated copy of the written communication to the TJPA Representative within 3 days. If death or serious injuries or serious damages occur, the accident shall be reported at once by telephone or messenger to the TJPA as well as to the proper governing authorities. In addition, Contractor shall promptly report in writing to the TJPA all accidents whatsoever arising out of or in connection with the performance of the work whether on or adjacent to the site, giving full details and statements of witnesses. Within 3 days of occurrence, the Sub Trade contractor shall provide the TJPA with 2 copies of the Sub Trade contractor's accident and near-miss reports. A significant accident is defined to include events where personal injury is sustained or tangible property loss is sustained, or where the event posed a significant threat of loss or personal injury. If a claim is made by anyone against the any Trade Subcontractor on account of any accident, the Sub Trade contractor shall promptly report the facts in writing to the TJPA, giving full details of the claim. Contractor shall provide the TJPA Representative copies of any laboratory test data, and medical monitoring results for record and evaluation within 3 days of receipt of the above information or upon the request of the TJPA Representative.

All incidents and accidents shall be immediately reported to Webcor/Obayashi Joint Venture Project Management/Safety and fully investigated. Investigation and root cause analysis should be completed to identify the primary reason the incident occurred with an action plan developed to prevent recurrence. Incident Reporting and Root Cause Analysis guidelines are discussed further in the following Appendices.

Safety and Health Training/Information

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Documentation and Reporting policy and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Section 01 15 45 (1.10A) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

The Trade Subcontractor shall maintain on-site all training records in accordance with federal, state, and local statutes, regulations, and policies, and provide copies of these records to the TJPA upon request.

New workers will be provided with initial training and/or orientation prior to assignment or when assigned to a new task for which training has not been received. Supervisors are expected to be knowledgeable and informed on hazards and safe work practices in their area of responsibility and to coordinate the disbursement of this information to crews. Training will include general area and specific assignment topics. Documentation of required training will be made available to Webcor/Obayashi Joint Venture Project Management and/or Webcor/Obayashi Joint Venture safety upon request. Training, to include refresher training will be provided in accordance with Federal/State OSHA guidelines (Refer to Appendices for additional information on required training). Training may include, but not be limited to:

- Aerial/Boom Lifts:
- Asbestos awareness

- Confined Space Entry;
- CPR/First Aid;
- Electrical:
- Excavation & Trenching;
- Fall Protection;
- Fire Watch:
- Forklift:
- Hazard Communication;
- Hazardous Chemicals;
- Ladders:
- Lasers;
- Lead awareness
- Lockout/Tag out
- Powder Actuated Tools
- Respiratory Protection;
- Rigging
- Scaffolding: Use & Erection/Dismantle;
- Steel Erection:
- Job Hazard Analysis;
- Accident investigation training for Foremen & Superintendents;

CODE OF SAFE CONDUCT AND WORK PRACTICES

The following Safety Procedures will be complied with on the Transbay Transit Center project. These Safety Procedures are in accordance with Webcor/Obayashi Joint Venture Safety Program and the division of Industrial Safety Cal/OSHA Construction Safety Orders.

General

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Health and Safety Plan (HASP) and will be submitted to the Joint Transit Power Authority as they are received. All subcontractors must submit their Company's Project Safety Program to the Project Site Safety Manager prior to the start of their work.

As a minimum, the subcontractor's Safety Program shall meet or exceed Webcor/Obayashi Joint Venture safety requirements, the applicable parts of the Webcor/Obayashi Joint Venture Corporate Safety Manual, the contract documents and federal, state, local or other applicable regulations.

Prior to Subcontractors arrival, measures to identify, monitor and control the worker and the general public from identified hazards shall be included in their safety plans. The Program shall be reviewed by the Site Safety Manager who may require, from time to time, additional written Safety Procedures as may be necessary to address the potential hazards of their operations.

Contractor Weekly Safety Meetings

Subcontractors and tiered subcontractors are <u>required</u> to hold Weekly Safety "Tool Box" Meetings with their field crews. Submit copies of meetings including Safety subjects discussed and attendance, to the WEBCOR/OBAYASHI JOINT VENTURE 11

Webcor/Obayashi Joint Venture Site Safety Manager. Webcor/Obayashi Joint Venture will provide assistance and information to subcontractors and their sub-subcontractors as requested.

In addition, subcontractors and tiered subcontractors are to attend monthly or whenever determined by Webcor/Obayashi Joint Venture all hands safety meeting.

Personal Protective Equipment

Hardhats

All persons employed on this project are required to wear ANSI Z89.1-approved hardhats as a condition of employment. All visitors on the jobsite will be required to wear hardhats while on the project site. Any person refusing to wear a hardhat will be <u>immediately dismissed</u> from the project site. Metal hardhats and "Cowboy" hardhats are not allowed to be worn. 100% hardhats are required at all times while on the project.

Eve Protection

The wearing of eye protection will be strictly enforced at all times. 100% safety glasses are required at all times while on the project.

Hand Protection

Hand protection must be worn 100% of the time on the project Gloves must be worn in any situation where hand/finger exposure to hazards exist, unless the manufacture of the equipment being used states gloves should not be worn.

Foot Protection and Clothing

All personnel shall wear safety vests, work boots or acceptable work shoes while employed on this project and keep their footwear in good condition at all times. Long pants and shirts with "T-shirt-length sleeves shall be worn at all times. No sneakers, tennis shoes, soft-suede/canvas hiking boots, tank tops, etc., will be allowed. Foot covers must be used with jumping jack compactors and jackhammers.

Hearing Protection

Each subcontractor shall provide and enforce the use of hearing protection for all workers exposed to noise levels as required by law.

Contractor Parking

There is <u>no subcontractor onsite parking</u> on the project. Subcontractors and sub-subcontractors in violation of this request will be towed at their expense without further notice. Because of the restricted nature of the project, this rule will be strictly enforced.

Job Vehicular Traffic and Material Deliveries

Only company-owned vehicles with signage are continuously required for the pursuit of subcontractor's and sub-subcontractor's work, and trucks delivering materials will be allowed access to the project site.

All construction vehicle traffic access will be coordinated by Webcor/Obayashi Joint Venture.

Subcontractors are reminded that continuous 2-way vehicular traffic must be maintained at all times for safe public accessibility unless posted otherwise. Two-way traffic control is to be provided by subcontractors prior to delivery vehicles entering the property.

Subcontractors are to notify Webcor/Obayashi Joint Venture 48 hours in advance for approval of material deliveries. Delivery vehicles will unload and depart the project site as soon as possible.

Material storage and layout must be approved by Webcor/Obayashi Joint Venture prior to delivery.

Temporary Offices

Temporary offices will be constructed of fire-resistant materials only. Temporary office locations must be approved by Webcor/Obayashi Joint Venture prior to installation.

Fire Protection

In case of a fire or explosion, notify Webcor/Obayashi Joint Venture immediately so that necessary emergency fire-fighting equipment can be routed to the jobsite. Emergency phone numbers will be posted in such a manner so as to be clearly visible. Each trade is responsible for providing fire extinguishers and a fire-watch program for their work <u>as required</u> in renovation and new construction areas. Reference Webcor/Obayashi Joint Venture's Fire Prevention Program.

Cleanup and Housekeeping

Subcontractors and sub-subcontractors shall leave the site clean and free of debris and hazardous materials by the end of each working day to the satisfaction of Webcor/Obayashi Joint Venture. Each subcontractor is responsible for removal of debris created by their work. Rubbish containers will be placed at a central location for the removal of trash and debris. Accumulation of trash and debris will not be tolerated. Webcor/Obayashi Joint Venture will perform necessary cleanup of same, at subcontractors' expense, upon failure to comply with cleanup notice request.

In addition to subcontractor's own efforts to maintain a clean work area, subcontractors shall provide Webcor/Obayashi Joint Venture with four man-hours of cleanup for every forty man-hours of work. The use of this composite crew will be directed by Webcor/Obayashi Joint Venture. For more details, reference Webcor/Obayashi Joint Venture's Project Bidding Manual section on composite crew project clean-up.

Drinking Water

Subcontractors shall provide potable drinking water, cups, and trash receptacles for their employees, and all trash shall be removed from the site on a daily basis.

Security Services

Subcontractors and sub-subcontractors shall be responsible for the security of toolboxes, onsite storage materials, etc.

Noise Control

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project noise control plan and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Section 01 35 65 (1.2E) (1.8B), (1.8C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Trade Subcontractors shall conduct noise inspections and noise testing of equipment to ensure that all equipment on the Site is in good condition and effectively muffled per manufacturer's recommendation. Noise control shall be maintained by the subcontractors in all areas of construction, guarding against undue noise. Playing of radios, including headsets, is prohibited.

All motor-drive equipment shall have a proper exhaust system, which shall meet Cal/OSHA Standards on noise levels. Subcontractors are to provide proper hearing protection to employees using chipping guns, jackhammers, rock drills, or similar devices.

Combustible Material (Gas, Oil, Oxygen)

Separate storage areas for acetylene, oxygen, and gasoline will be established by Webcor/Obayashi Joint Venture. The contractor shall post proper warning signs. All gasoline will be in containers that will meet NFPA and Cal/OSHA requirements, and will be stored in designated areas only. All acetylene and oxygen bottles will be attached to a cart when in use, or tied off in a vertical position. All carts must be equipped with a fire extinguisher.

All stored oxygen and acetylene must be separated from each other, by a minimum of 20 feet or a firerated barrier, with bottle caps secured in place as required by Cal/OSHA.

Ladders

Fall prevention shall be considered by the competent person if employees work from a ladder 6' or more above a lower level. Metal ladders shall not be used on Webcor/Obayashi Joint Venture projects. When ascending or descending a ladder, employees shall maintain a three-point contact and not carry anything that could cause them to fall. Pull ropes should be placed at all access ladders to lift tools or equipment from level to level. As a minimum, only type 1 or 1-A Heavy/Extra Heavy duty ladders, which carry a minimum of 275 lbs. to 300 lbs., will be allowed on Webcor/Obayashi Joint Venture projects.

Scaffolds

All scaffolds will be constructed and maintained so as to meet all Safety requirements of Cal/OSHA and Webcor/Obayashi Joint Venture. Failure to maintain scaffolds in good condition will result in removal by Webcor/Obayashi Joint Venture. **All scaffolds must have top rails, mid rails, and toe boards at all platform levels.** All scaffolds are to be built under the supervision of a competent person. The person's name and their qualifications shall be submitted in writing to Webcor/Obayashi Joint Venture prior to the start of work. Daily pre-shift inspection checklists shall be performed by a competent person, maintained by the subcontractor and submitted to Webcor/Obayashi Joint Venture upon request.

100% fall protection is required at all heights above 6'. A competent person shall determine if it is feasible to use fall protection devices while erecting/dismantling a scaffold. Rolling scaffold wheels shall be locked when in use. A horizontal, diagonal brace shall be in place to prevent the scaffold from "wracking". Cross bracing shall not be used as a top or mid rail.

Fall Protection

Webcor/Obayashi Joint Venture maintains a **zero tolerance policy** for fall protection infractions. Anyone found violating this policy may be removed from the site immediately.

Subcontractor employees are required to provide and use 100% fall protection systems whenever exposed to a fall 6' or greater, including any leading edge work. This can be accomplished through the use of a safety net system, personal fall arrest system or a guardrail system. Webcor/Obayashi Joint Venture does not allow the use of a Safety Monitor System.

Each subcontractor is responsible for providing perimeter tie-off protection for its employees. The building perimeter cable is placed as a guardrail protection, and is not provided for tie-off protection.

Electrical

Ground Fault Circuit Interrupter (GFCI) protection is required for all electrical cords and tools. Each subcontractor shall provide GFCI-protected power strips for use in the building when permanent power has been energized and permanent outlets are placed in service. Each contractor will be responsible for providing and maintaining temporary GFCI's for his or her employees if a GFCI receptacle is not available.

Lockout/Tag out Procedures

Subcontractors shall submit their written LOTO program and documented employee training <u>prior to</u> <u>beginning work on site.</u> The program must include scope of training, pre-planning and specific LOTO procedures. All individuals who are working in or around the hazardous energy shall place their own lock and tag on the disconnect of the energy source. At no time will someone be allowed to remove another employee's lock unless it has been cleared through Webcor/Obayashi Joint Venture competent supervision.

Floor Openings/Hole Cover Procedures

Subcontractor competent person is responsible for identifying any floor opening/hole requiring to be protected. All floor openings/holes shall be covered/protected using appropriate materials. The covers must be able to withstand 2x the load and be secured to the floor and will be inspected daily by the subcontractor competent person. All floor/hole covers shall be clearly marked "Hole Do Not Remove" in a high visible color. All hole covers must be in compliance with OSHA's 29 CFR 1910.23 (a) – 1910.23 (e) 11.

The building perimeter, shafts, and floor openings shall be protected with guard rails and toe boards. Personnel working at a stationary position within 6'-0" of the building perimeter or the edge of a shaft or a floor opening will wear a full body harness and be tied off with an appropriate lifeline. Subcontractors and tiered sub-subcontractors shall not remove any guard rail or fall protection device without the express consent of, Webcor/Obayashi Joint Venture any employee noticed removing such protection without authorization will be removed from the project without recourse. Any area where guardrails and toe boards have been removed shall not be left unattended during a shift. In no case will any guardrail or toe board be left down at the end of a shift.

In locations where temporary protection conflicts with scheduled construction, the subcontractor or the sub-subcontractor shall notify Webcor/Obayashi Joint Venture in advance of the work of necessary modifications. The subcontractor or the sub-subcontractor shall remove the temporary protection and provide other appropriate temporary measures for the performance of their work.

Safe Lifting

All personnel are to be instructed in the proper methods of lifting heavy objects. These instructions will be discussed at Safety and "Tool Box" Meetings.

Powder Actuated Tools

Only low-velocity-type tools will be allowed on this project. Special permission from Webcor/Obayashi Joint Venture must be obtained before high-velocity types can be used, and then only if the job requires it. All personnel working with powder-actuated tools shall be property instructed and licensed for operation

of the tool and shall be in possession of current certification while using powder-actuated tools. Warning signs shall be posted in the work area where powder-actuated tools are in use.

Dismissal From Project <u>THE FOLLOWING IS PROHIBITED AND THE INDIVIDUALCAN BE SUJECT TO</u> DISMISSAL FROM THIS PROJECT SITE FOR VIOLATION:

- Fighting and horseplay.
- Alcohol consumption or controlled-substance use on the site.
- Crowding or pushing while accessing work levels on ladders, scaffolds, etc.
- Throwing trash or any objects from the building.
- Using fire equipment (extinguishers, etc.) for other than its intended use.
- Destroying property or the work of other trades.
- Stealing.
- Gambling on the project site.
- Unsafe work habits.
- Persons using prescribed medication must notify his/her employer of such use prior to going to work or taking the medication.
- Working while your ability or alertness is so impaired by illness or fatigue or other causes that it might unnecessarily expose you or others to injury.
- Noncompliance of any Safety rules and regulations.
- Lewd or abusive language towards jobsite personnel, Owner's personnel, or any member of the public.

First Aid

All subcontractors and tiered subcontractors are required to have a **CPR/First Aid certified persons and** First Aid Kit available at the jobsite with contents meeting the requirements of Cal/OSHA. Each subcontractor shall make arrangements for medical aid at a facility as provided through their insurance carrier.

Use of Tools and Equipment

Each subcontractor is responsible to provide proper instructions for their employee's use of all tools and equipment.

When the use portable electric or pneumatic tools is needed, proper safety guards must be in place and operational. Power tool cord "whips" must meet NEC requirements. Air compressor hoses must be "clipped" together. Tools are not to be raised or lowered by their cords or air hoses.

Hazardous Material Handling

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Material Handling plan and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Sections 01 13 50 (1.4B and C) and (1.8D) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Currently Webcor/Obayashi Joint Venture does not anticipate based on the scope of work to have any excavations that will require special protection. In the event the situation does arise, The Trade Subcontractor will submit all appropriate documentation (protections, support systems, inspection process, access) preceding the activity.

Hazardous Communications Program

All subcontractors are to comply with Webcor/Obayashi Joint Venture's Hazard Communication Standard Policy. If you are allergic to cement or are susceptible to lime burns or skin disorders, notify your supervisor in order to make sure you are not assigned work with those substances. If you are allergic to or cannot use any other chemicals, notify your supervisor.

Confined Space

No person shall enter a confined space such as manholes, underground vaults, tanks, pipes, tunnels, or other similar places until it is determined that it is Safe to enter the space by an approved method. Subcontractor competent person is responsible for identifying any potential confined space and shall initially determine if a permit required confined space exists. A pre-planning meeting must be held if a confined space exists and proper procedures followed to ensure worker safety.

Traffic Work Zone Signaling Requirements

Due to general liability exposure created by improper traffic control, all flagging, training, lane closures, etc. shall conform to the most current edition of the Manual on Uniform Traffic Control Devices (MUTCD). Local permitting issues shall be addressed by Webcor/Obayashi Joint Venture prior to the start of work. All workers in the traffic control area must be trained according to local, state and federal requirements and wear the appropriate reflective vest or high visibility clothing. Stop/Slow paddles, not flags, must be used to control traffic flow.

Equipment

Machinery and equipment shall be inspected and documented daily in addition operated by authorized, trained personnel only. All operated equipment shall have backup alarms in working order. Operators shall inspect each work area to make sure that it is Safe to operate the equipment in that area. Equipment shall not be serviced or repaired while it is in motion or running, unless there are appropriate Safeguards in place to prevent injury. Fuel-operated equipment, such as generators, air compressors, welders, etc., shall have a dedicated fire extinguisher near the equipment at all times when it is in operation. Fire extinguisher shall be rated 10 ABC, minimum.

Excavation and Trenching

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Materials Handling plan and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Sections 00 07 00 (I), 00 08 14(1.2B), 00 08 14(1.4), 00 08 14(1.5B) and 01 35 65 (1.7C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Pursuant to section 6705 of the California Labor Code, excavation for trenches 5 feet or more in depth shall not begin until Webcor/Obayashi Joint Venture has received acceptance from the TJPA of Webcor

Obayashi's detailed plan for worker protection from the hazards of caving ground during excavation of such trenches. Webcor Obayashi's shoring plan shall be submitted in accordance with the requirements of the Specifications and shall show the details and supporting calculations of the design of shoring, bracing, sloping, or other provisions to be made for worker protection during such excavation.

No plan shall allow the use of shoring, sloping or other protective system less effective than that required by the Construction Safety Orders of the Division of Occupational Safety and Health.

If Webcor/Obayashi Joint Venture shoring plan varies from the shoring system standards established by the Construction Safety Orders, the plan shall be prepared and sealed by an engineer retained by Webcor/Obayashi Joint Venture who is registered as a civil or structural engineer in the State of California. The TJPA's acceptance of Webcor/Obayashi Joint Venture shoring plan shall not be construed to relieve Webcor/Obayashi Joint Venture of its sole responsibility for damage or injuries related to the excavation resulting from unsafe shoring.

Currently Webcor/Obayashi Joint Venture does not anticipate based on the scope of work to have any excavations that will require special protection. In the event the situation does arise, The Trade Subcontractor will submit all appropriate documentation (protections, support systems, inspection process, access) preceding the activity.

The Trade Subcontractor will comply with all requirements of federal OSHA, Cal/OSHA, the California Labor Code, Trade Subcontractor safety requirements, and these Contract Documents. The more stringent requirements shall apply.

Should Trade Subcontractors be notified by the TJPA of any unsafe or unhealthy condition associated with the performance of the Work and be required to take remedial action to correct such conditions, Trade Subcontractors shall take action immediately, if so directed, or within 48 hours after receipt of a notice of violation.

The health and safety plan shall be certified by Trade Subcontractor's competent hazardous materials supervisor and submitted to the TJPA for review and comment prior to implementation.

Prior to commence of earthwork activities the Trade Subcontractor shall review the, SMP. Submit for approval a comprehensive and site specific HASP prepared by a certified industrial hygienist.

Daily, pre-shift inspection of excavations, the adjacent areas and protective systems shall be made by the competent person for evidence of potential cave-ins, hazardous atmospheres or protective system failure. Daily, pre-shift inspection checklists shall be maintained by the subcontractor and submitted to Webcor/Obayashi Joint Venture weekly.

No person shall enter an excavation where protection from ground movement is required until such protection is in place. 100% fall prevention is required when working next to excavations greater than 5' in depth. Ladders or other means of approved access shall be used for all excavations. Stepladders shall not be used in a "leaning" position to enter or exit excavations.

Respiratory Protection

• Conditions may exist which require the utilization of respiratory equipment to protect employees against exposure to the inhalation of toxic or harmful gasses, vapors, mists, fumes and dust. Each Contractor must implement and enforce a respiratory program in accordance with CAL/OSHA standards to protect employees from these types of exposures.

- Only respirators that are applicable and suitable for the purpose intended will be used. They will be selected on the basis of the hazards to which the employee is exposed.
- Employees required to use respiratory protective equipment approved for use in atmosphere immediately dangerous to life shall be thoroughly trained in the use and limitations of such equipment.
- Respiratory protective equipment will be inspected regularly and maintained in good condition.
 Chemical cartridges will be replaced per manufacturer's recommended or calculated filter change-out schedule so as to provide complete protection. Dust respirators are to be replaced in accordance with manufacturer specifications.
- Respiratory protective equipment, which has been previously used, shall be cleaned and disinfected before it is issued to another employee.
- Workers required to wear respiratory protection shall have been medically evaluated and approved to wear such devices. A copy of each of its worker's medical approval will be kept by each contractor on site.
- Employee Training (Respirators, Breathing Apparatus, etc.)
- All employees required to use personal protective equipment shall be given individual instruction by contractor regarding PPE prior to its use. This training shall be documented and a record kept on site.
- All employees must be clean-shaven to ensure the proper fitting of the respirator. Each contractor must perform fit testing on each employee to ensure the proper fit of the respirator. The results of the fit test shall be documented and a record kept on site.
- Each contractor must have a written respirator program and this program is to be submitted to the construction manager, General Contractor and Safety Coordinator prior to working at this site.

Crane Lift Plan Process Requirements.

- 1. The Crane Use Planning Process has two parts:
 - a. Crane Lift Plan
 - b. Crane Daily Safety Review (Note: Required EVERY DAY a crane is used)
- 2. A Complete and Competent Crane Lift Plan (reviewed by Webcor/Obayashi Joint Venture) is required prior to any crane lift while working on a Webcor/Obayashi Joint Venture project.
- 3. Complete and Competent Crane Lift Plans must be submitted to Webcor/Obayashi Joint Venture at least 48 hours (2 business days) prior to mobilization. Neither TJPA nor Webcor/Obayashi Joint Venture shall be held responsible for any delay allegations as a result of the Trade Subcontractor failing to submit Crane Lift Plans on a timely basis.
- 4. The Trade Subcontractor is responsible to visit the site prior to the lift date to review documentary information pertaining to the site, which is maintained by Webcor/Obayashi Joint Venture.
- 5. The Trade Subcontractor is responsible to obtain all information that is necessary to develop a power line safety plan.
- 6. The Complete and Competent Crane Lift Plan may be valid for more than one day, as long as the configuration, location, maximum expected load, and maximum expected radius does *not* change. Use multiple lift plans for multiple locations.
- 7. Complete and Competent Crane Lift Plans must be based on "worst case" combination of load weight with chart deductions and lift radius for a specific crane configuration in a specific location.
- 8. The Crane Lift Plan must be *COMPLETE & COMPETANT* (and reviewed by Webcor/Obayashi Joint Venture) along with attachments to include, but is not limited to:
 - a. Plot plan with crane location (identify swing path, delivery truck locations, location of any overhead power lines, etc.).

- b. Elevation plan.
- c. Crane load charts and calculations including any notes.
- d. Dimension illustration and specifications for crane and range chart.
- e. Operator's: License, training information, USDOT medical certificate, OSHA trainings cards as required by the project.
- f. Rigging plan, lists, and diagram.
- g. Statement of qualification and competent person designation form for: Crane operator, A/D supervisor, rigger and signal person.
- h. JHA for: Assembly / disassembly of crane, power line encroachment, truck load / unload, etc.
- i. Logistics and assembly / dismantle plan.
- j. 3rd party annual inspection, certification, and report (Inspector shall be registered with the CCAA).
- k. Actual weights of materials.
- 1. Lighting and wind restrictions (from operators manual).
- 9. Work that is not anticipated in the Complete and Competent Crane Lift Plan, but may arise due to site conditions (moving equipment, loading materials onto floors, etc.) must be reviewed with Webcor/Obayashi Joint Venture prior to hoisting. Changes affecting crane configuration may require the Complete and Competent Crane Lift Plan to be amended.
- 10. Lifts exceeding 75% of the cranes stability / structural capacity chart, requiring movement of a crane carriage with the load, personnel platforms, critical loads (long lead time, cost), tripping loads, work over occupied facilities, or work involving encroachment on public rights of way, will also require the preparation, submittal and review of a specific JHA (Note: These lifts are discouraged. These lifts must be reviewed in advance. The Complete and Competent Crane Lift Plan(s) may have to be prepared and stamped by a licensed professional engineer (PE) to be provided by the Trade Subcontractor.
- 11. The Trade Subcontractor / Crane Company / Rigging Company is responsible for the accuracy of all calculations and inspections. This planning process has been established to help ensure proper coordination between subcontractors and Webcor/Obayashi Joint Venture. No warranty or certification of the suitability of this plan is accepted by Webcor/Obayashi Joint Venture. It is the responsibility of the Trade Subcontractor and the Crane Operator to ensure that they and their employees are qualified, competent, properly equipped and properly trained to perform the activities outlined in this plan.

Cranes, Hoisting and Rigging

Introduction

The safe operation and proper maintenance of cranes and rigging on the site shall be the overall responsibility of the contractor. Each contractor shall also be held accountable for compliance with CAL/OSHA crane regulations for all cranes or derricks on the site, whether contractor owned, leased or rented. All rigging inspection logs subcontractor and submitted to Webcor/Obayashi Joint Venture mothly.

Riggers shall meet the qualified rigger requirements of subpart CC – Cranes and Derricks in Construction, as specified in 29 CFR 1926.1401, 1926.1404, and 1926.1425. These provisions are effective November 8, 2010. The more stringent rule shall apply.

Special Provisions

- Prior to its initial use on the site or after repairs have been made each crane or derrick shall be thoroughly inspected by a certified independent third party. Any deficiencies found shall be corrected before the equipment is placed into service.
- A copy of the annual certification inspection performed by a certified independent third party shall be submitted to the Webcor/Obayashi Joint Venture Safety Manager prior to the crane being operated on site.
- Each contractor shall designate a competent person who shall inspect all cranes and derricks daily as part of the contractor's job site inspection program. Such inspections shall be documented. Defective equipment shall be removed from service and repaired and service/repair shall be documented.
- The contractor or vendor supplying the equipment shall inspect each crane at least monthly and provide a written report as to the results of the inspection. Defective equipment shall be removed from service.
- Loads shall not be passed or suspended over persons.
- Tag lines or guide ropes shall be used to control all loads.
- Barricades for employee safety shall be maintained around the swing radius of the crane cab.
- Crane Operator Qualifications
- Each contractor shall as specified in 29 CFR 1926.1427. State or local government
- licensing is effective November 8, 2010 select only those personnel meeting the following qualifications to operate cranes and other hoisting equipment:
- Designated operators who have been licensed by an approved agency or union and meet the requirements of Chapter 5, ANSI B30.
- Crane operators will meet the minimum requirements by the D.O.T. Physical Examination, as provided in D.O.T. 391, Physical Examination for truck drivers. No crane operator will be allowed to operate a crane until they have passed the Physical Exam conducted by a licensed Physician approved by the D.O.T.
- Coordinators certified for crane inspection;
- Test and maintenance personnel when necessary.
- Only designated operators who have been licensed by an approved agency or union and meet the requirements shall be in, or on, the crane during operations.
- Operator's Responsibilities
- Each crane operator will be specifically assigned the responsibility for safe operations and shall be given written instructions as applicable. These responsibilities shall include:
- Verification of a current "annual inspection" certification for the crane.
- Verification that manufacturer's rated load capacities, recommended operating speeds, and special warnings or instructions are posted on the crane and are visible from the operator's station.
- Daily inspection of:
- Condition of brakes under no-load conditions
- Functioning of various safety devices and limiting devices fitted to the hoisting apparatus
- The electric power installation
- The overload controls
- Condition of structural members for cracks, bends, misalignment, etc.
- Fire extinguisher in cab
- Assuring that routine maintenance is performed, as well as necessary repairs.
- Responsibility for assuring that signaling and communications are adequate. This includes making sure that personnel at materials loading and receiving areas use correct hand signals. Where conditions require, radio communications will be used with a clear channel for crane operations.

- Refusing to lift any loads that are not safely rigged. This refusal cannot be overridden by job supervisory personnel.
- Making sure that adequate clearances exist between operating areas and nearby structures, especially power lines.
- Each crane operator shall ensure that good housekeeping is maintained in his or her equipment.
- Operating Procedures
- Each contractor shall ensure that its crane operators:
- Not engage in any practice, which may divert his attention while engaged in crane operations.
- Not operate the crane if physically or mentally unfit, or if taking prescription drugs, which may affect judgment.
- Not respond to any signal, which is unclear or is given by anyone other than appointed signalmen. Exception: The operator shall respond to a stop signal given by anyone.
- Have final responsibility and control over the crane operations. When there is any doubt as to safety, the operator shall have the authority to stop and refuse to handle the loads until safety has been assured. Any manager, supervisor or person attempting to bypass the crane operator's authority on this issue will be immediately removed from the project.
- Shall be intimately familiar and have thorough knowledge of the crane and its care, the operators' manual, and load charts. He shall be responsible for notifying its supervisor of any needed adjustments or repairs, and for logging his findings in the crane log.
- Shall, upon request, demonstrate his ability to determine total load weight and its relationship to the crane load charts.
- Immediately shut down the crane if any part of the crane, rigging or load strikes any object. The crane will be re-inspected by a qualified person, and if damage is detected, all repairs shall be completed under the guidelines of the manufacturer. The crane must then be re-inspected by a third party agency prior to beginning operations again.
- Never leave the controls while there is a load on the hook.
- Stop the crane operation if there are any problems and notify the Safety Coordinator.
- Contractor Responsibilities
- Making sure that rigging equipment is in good condition and provided with safety devices as applicable. This includes such things as:
- Safety latches on hoisting hooks.
- Chains, wire rope, slings, etc. are free from defects and conform with standard load ratings for work being done.
- Eye splices conform to safety standards.
- Employee Training
- Each contractor shall ensure that all of its employees involved in crane activities receive comprehensive training as to their responsibilities. This training shall include hand signals and those authorized to give signals. Said training shall be documented.
- Hoisting and Rigging
- Documented inspections of hoisting and rigging equipment shall be conducted by a competent person before their use to ensure that it is in safe operating condition and that lifts will be conducted in a safe manner.
- Damaged or defective equipment shall be removed from service and removed from the project site.
- Accessible areas within the swing radius of the rotating superstructure shall be properly barricaded to prevent employees from being struck or crushed by the crane.
- Lifts shall not be conducted over employees, visitors, or areas occupied by the public.

- The crane operator shall be responsible for determining the safe operation of their crane and the safety of each lift.
- Routes of suspended loads shall be preplanned to ensure no workers or the public are directly below suspended loads.
- Tag lines shall be used for controlling all loads.

HAZARD COMMUNICATION STANDARD POLICY

This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor/Obayashi's overall project Hazardous Material Communication plan and will be submitted to the Joint Transit Power Authority as they are received.

This Section will conform to Specification Sections 01 15 45 (1.2A1, 1.2A2),(1.13D),(1.4A), (1.4C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000

Trade Subcontractors shall submit the following in accordance with this Contract specification: A HASP. Upon approval of the HASP, Trade Subcontractor shall provide 2 copies on compact disc in Portable Document Format (PDF) with properly labeled cases. Materials Safety Data Sheet (MSDS) for all chemicals and other hazardous materials to be used. This submittal is only as warranted. Trade Subcontractor's site-specific HASP. Trade Subcontractors shall submit a site-specific environmental HASP in accordance with these specifications and 29 CFR 1910.120, 8 CCR 5192. The HASP shall remain in effect throughout the life of the Contract, and a copy of the HASP must be on site at all times.

Trade Subcontractors shall submit 5 copies of the HASP at least 10 working days before any demolition or any building materials-disturbing activity, and no later than 30 days after the Notice to precede for each Trade Subcontract package. The TJPA will not review the HASP for its content, nor will the TJPA be liable for Contractor's failure to have an adequate HASP or implement it. Receipt of the HASP by the TJPA neither constitutes the legality of the HASP nor incurs liability with Trade Sub contractor.

- Each subcontractor is to submit a copy of its written Hazard Communication Program to the Webcor/Obayashi Joint Venture jobsite. An initial hazardous material/chemical listing for this specific jobsite must accompany the Program.
- All subcontractors are required to maintain MSDSs on the project.
- A complete file of all MSDSs submitted is to be located at the jobsite office for review by all workers during job hours (Webcor/Obayashi Joint Venture Subcontractors, and Sub-subcontractor/Suppliers).
- Noncompliance with this portion of the Webcor/Obayashi Joint Venture Safety Policy will be written up as a Safety violation and may result in a Safety fine and/or nonpayment to the subcontractor(s).
- Webcor/Obayashi Joint Venture is only required to train its employees to comply and observe the policy. It is the responsibility of each subcontractor and each sub-subcontractor to train his employees in the implementation and use of the Hazard Communication Policy.
- Each subcontractor will discuss each new substance introduced on the jobsite at the weekly Safety meetings with his crews and the Superintendents of other subcontractors at the Project Safety Meeting.
- Each subcontractor must label the contents of all containers including secondary containers. The label must identify:

- Substance
- Hazard Warnings
- Name and address of the manufacturer
- Each subcontractor must:
- Train his personnel regarding Hazardous Communications, and specifically as t the dangers of working with these substances, chemicals, materials. Keep copies of training certificates at jobsite.
- Provide proper personnel protective equipment, as required.
- Train employees in the first-aid and medical emergency procedures associated with each material.
- Keep copies of all MSDSs at the jobsite.
- Bulk fuel storage is not allowed onsite.

EMERGENCY MEDICAL PROCEDURES

The purpose of this program is to establish standard jobsite procedures for reporting accidents, administering first aid, and emergency medical procedures.

Each subcontractor and sub-subcontractor shall maintain a Cal/OSHA-approved First Aid Kit on the Project at all times. Each subcontractor shall designate an employee qualified in first-aid treatment as their Safety Coordinator. It shall be the Safety Coordinator's responsibility to treat minor injuries and complete and submit required accident reports to Webcor/Obayashi Joint Venture.

Minor Injuries

Minor injuries are those which require only immediate first-aid treatment and do not result in lost work time.

In the event of a minor injury, the subcontractor's Safety Coordinator shall provide first aid and/or take the injured employee to the designated medical center or clinic for treatment and checkup if necessary.

Persons who have sustained head injuries, major impacts, or whose injuries are the result of a fall shall be evaluated and stabilized by professional medical personnel and provided transportation to the medical facility by the subcontractor or EMT.

Upon return from treatment, the employee shall return to work <u>ONLY</u> if so released in writing by the attending physician.

All minor accidents shall be a topic of discussion at the subcontractor's next scheduled Safety Meeting, to include cause of accident and preventive measures to be taken to avoid future similar accidents.

Major Injuries

Major injuries or illness are those which require extended medical treatment with hospitalization for more than 24 hours resulting in loss of work time, or result in death, disfigurement, or dismemberment.

In the event of a major injury, the first person to encounter the injuries shall summon others to notify the Webcor/Obayashi Joint Venture Field staff and provide the appropriate first-aid treatment if qualified. Any subcontractor or sub-subcontractor may dial 911 to request medical assistance. Emergency vehicles

shall be directed to enter the Project at site entrance that will be determined as conditions change on the logistic map.

Upon entering the project, the emergency vehicle shall be directed to the exact location of the injured.

While awaiting arrival of the Emergency Vehicle(s), the injured shall not be moved unless he/she is in immediate danger of additional injury in his/her current location. Equipment and material involved in or responsible for the accident shall not be disturbed unless it presents an additional danger to the injured person(s).

The closest Emergency Medical Facility is:

St. Francis Health Center 24 Willie Mays Plaza San Francisco, CA 94107-2134 (415) 972-2249

Immediately after the accident, Webcor/Obayashi Joint Venture will meet with the responsible subcontractor's Superintendent and/or Foremen, review the conditions, and direct the appropriate corrective action. The subcontractor's Safety Coordinator shall complete and submit a copy of all required reports to Webcor/Obayashi Joint Venture.

Within 24 hours of a major injury, Webcor/Obayashi Joint Venture shall conduct a Safety Meeting with attendance required of all jobsite personnel. Topics to include: cause of accident, nature of injury, immediate prognosis for full recovery from injury (if available), and preventive measures to be taken to avoid future similar accidents.

ACCIDENT / INJURY MANAGEMENT

Accident Reporting

All on-site incidents and accidents must be reported to Webcor/Obayashi Joint Venture Project Management immediately. All accidents resulting in industrial injuries or illnesses occurring on the jobsite will be thoroughly investigated. The investigation will be conducted by the controlling employer's Project Management, supervisor and Safety Coordinator, under the direction of Webcor/Obayashi Joint Venture Project Management. This includes accidents, injuries and illnesses of workers whether the injury resulted in medical treatment; no claim was filed, or is a non-industrial injury. Completion of appropriate forms, as defined in the Incident Reporting Appendix must be completed immediately after occurrence.

Accident Investigation

The initial accident investigation is to be completed within 24 hours, with immediate notification of Webcor/Obayashi Joint Venture safety (refer to Incident Reporting Appendix). Identification and review process of root causes must be completed. Corrective actions, identification of persons responsible for corrective actions, and date of completion must be established. Follow up documentation verifying corrective action completion is required. Lessons learned from root cause analysis reviews will be shared with the project, regionally and globally.

Investigation reports of accidents or injuries requiring medical treatment must include medical treatment forms and completed first report or injury forms.

This project requires that an Incident Investigation form be completed for all on-the-job accidents. The form is contained with the Incident Reporting Appendix. This form must be completed as soon as possible (limit - within 1 working day) after occurrence of any injury that results in medical treatment or property damage. After completion, the form must be returned to Webcor/Obayashi Joint Venture Project Management/Safety for corrective action and processing.

Copies of all accident investigation documentation must be submitted to the Webcor/Obayashi Joint Venture Regional Safety Director. If required by law, injury notification to OSHA must be coordinated through the Webcor/Obayashi Joint Venture Regional Safety Director and the Corporate Safety Director.

Accident Analysis

Webcor/Obayashi Joint Venture provides a safe and healthful work environment for all workers through progressive, proactive injury prevention planning. Job pre-planning and identification of up-coming potentially hazardous activities is supported by regular review of trend analysis.

To identify root causes of accidents and at-risk behavior Webcor/Obayashi Joint Venture and subcontractor management will be required to, within 48 hours of the incident, conduct a "lesson learned" meeting. The meeting will analyze any injury accidents, environmental incident, or impact to existing facilities and operations. Accident trends will be identified and plans developed to prevent additional incidents. A complete Root Cause Analysis will be performed involving at least the Webcor/Obayashi Joint Venture and Subcontractor Project Teams. The mission of these meetings will be to identify problem areas, develop specific action plan(s) to address root causes and at-risk behaviors, and to immediately implement corrective actions. Webcor/Obayashi Joint Venture will periodically review implemented plans for effectiveness. Lessons learned from root cause analysis reviews will be shared with the project, regionally and globally.

RESPONSIBILITIES FOR SAFETY and LOSS CONTROL

Overview

The objective of this project safety overview (PSO) is to establish that safety and health must be addressed throughout the entire project. The prevention of accidents and protection of property are company values and are integral to our success. All safety issues shall receive active support and participation by the entire project team.

The principles of safety and loss control are intended to prevent injuries on the jobsite and to reduce the potential for damage to property and equipment. No phase of construction is of greater importance than incident prevention. Accidents that result in personal injury or damage to property and equipment represent needless waste and loss.

Planning for safety starts with project design and continues through purchasing, fabrication and construction in all phases of the project. Practical steps will be taken to maintain an Injury Free Environment. All subcontractors must accept responsibility for preventing accidents and be responsible for thorough safety and loss control training and instruction for their workers.

26

The primary objective of the Webcor/Obayashi Joint Venture PSO is to coordinate the elimination or reduction of risk associated with the construction of the project. Associated missions are to promote safe work practices/behaviors, prevent accidents, prevent worker injuries, prevent damage to property, and promote maximum efficiency and effect savings by reducing unplanned business interruptions.

Active participation by the management of Webcor/Obayashi Joint Venture, subcontractors, tiered subcontractors and all workers will make the program effective and successful by coordinating the participants' efforts in performing the following tasks:

Providing a safe environment in which workers can perform high quality work.

Using job hazard analysis pre-task safety planning as a tool to reduce injury to persons and property.

Conduct jobsite safety audits to locate and abate unsafe work practices/behaviors and unsafe conditions.

Protecting the public and property potentially affected by Webcor/Obayashi Joint Venture sites.

Educating and training workers through:

- New hire/site specific safety orientation
- Safety meetings
- Task specific safety training; i.e., hazardous communications (HAZCOM), construction safety practices, excavation and trenching safety, confined space entry, equipment operations, etc.
- Mandatory personal protective equipment (PPE) programs
- Immediate injury reporting and effective record keeping to maintain an up-to-date accident experience and trends analysis
- Use of accident investigation information to abate deficiencies and eliminate any additional losses

Webcor/Obayashi Joint Venture Management Team

Webcor/Obayashi Joint Venture Management Team is responsible for construction management services for the Transbay Transit Center and for:

- Encouraging, reinforcing and modeling Webcor/Obayashi Joint Venture culture, including Injury
 Free Environment initiatives
- Participating in the development and assessment of EH&S leading indicators
- Reviewing and approving project corrective action/recovery plans.
- Instituting accountability when action plans and culture are not maintained
- Has the authority to stop any operations that pose a potential threat

Webcor/Obayashi Joint Venture Project Manager (Richard Gangitano)

The Webcor/Obayashi Joint Venture Project Manager is responsible for construction management services for the Transbay Transit Center and for:

- Determining if contract documents and specifications support the project's safety missions and objectives
- Monitoring subcontractor selection process and adherence to established guidelines
- Periodically auditing subcontractor's safety plans for compliance with the Webcor/Obayashi Joint Venture 's EHSP

- Participating in pre-task planning and subcontractor pre-construction safety meetings
- Being aware of loss control and public protection requirements of the project
- Participating in fact finding, root cause analysis, and the implementation of corrective actions associated with injury/incident investigations
- Documenting weekly jobsite safety audits
- Facilitating monthly craft feedback luncheon
- Supporting Webcor/Obayashi Joint Venture EHS personnel and cooperating with all designated personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Has the authority to stop any operations that pose a potential threat
- Promoting and supporting our Injury Free culture

Webcor/Obayashi Joint Venture Project Superintendents (Michael Poole)

It is the responsibility of Webcor/Obayashi Joint Venture Superintendents to oversee safety on jobsite. Their EHS responsibilities include:

- Overseeing the planning and execution of all work in compliance with the Webcor/Obayashi Joint Venture EHSP and contract specifications
- Being aware of loss control and public protection requirements identified in the safety specifications of the contract documents
- Completing daily jobsite safety audits and reviewing completed jobsite safety audits to ensure identified hazards are addressed in a timely manner
- Participating in pre-task planning, and subcontractor pre-bid, pre-construction and/or kick-off meetings
- Monitoring and participating in job hazard analysis and pre-task planning
- Requiring supervisors and workers to use personal protective equipment in accordance with the Webcor/Obayashi Joint Venture EHSP and local, state and federal safety regulations
- Participating in fact finding, root cause analysis and the implementation of corrective actions associated with injury/incident investigations
- Ensuring Injury Accident Investigation Packets are accurately completed and forwarded to designated individuals
- Participating in and encouraging weekly tool box/tailgate safety meetings, and evaluating their effectiveness
- Taking appropriate action to abate identified unsafe conditions and practices and document corrective actions.
- Supporting Webcor/Obayashi Joint Venture EHS, and cooperating with all designated project safety personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Has the authority to stop any operations that pose a potential threat
- Promoting and supporting Injury Free culture

Webcor/Obayashi Joint Venture Project EHS Manager (Raymond Ramierez)

The Webcor/Obayashi Joint Venture Project EHS Manager has authority for safety and health on the project. The Webcor/Obayashi Joint Venture EHS Professional is considered to be the program administrator and has the authority delegated by Webcor/Obayashi Joint Venture Corporate EHS to implement and promote safety. Duties of Webcor/Obayashi Joint Venture Project EHS Manager include:

- Helping to familiarize Webcor/Obayashi Joint Venture and subcontractor project managers, superintendents and supervisors with the Webcor/Obayashi Joint Venture EHSP. These individuals must be familiar with safety and health hazards to which all workers may be exposed, as well as applicable laws, regulations and safety rules and policies.
- Supporting project management in achieving an injury, incident and impact free environment.
- Help assure that all workers are trained in accordance with applicable requirements
- Helping to ensure that observation, inspection, recognition, evaluation and abatement of hazards are conducted on a continuing basis
- Continually developing new methods for abating hazards
- Helping to ensure that hazards are abated in a timely and effective manner
- Reporting all injuries immediately to Webcor/Obayashi Joint Venture Project Management.
 Webcor/Obayashi Joint Venture EHS also has the responsibility for overseeing development, implementation and maintenance of the project's safety program by:
- Requiring subcontractors to incorporate the requirements of the Webcor/Obayashi Joint Venture's EHS Plan into their safety programs and safety orientation if theirs are less protective than those of. Webcor/Obayashi Joint Venture.
- Expediting corrective action(s) to abate any observed or potential safety exposure(s) to workers.
- Requiring Webcor/Obayashi Joint Venture Project Management and Safety Coordinators to continuously monitor Webcor/Obayashi Joint Venture and the subcontractor's safety performance and expedite abatement action(s).
- Overseeing the implementation of emergency response procedures, and helping to assure that Webcor/Obayashi Joint Venture and subcontractor's personnel are trained to handle onsite emergencies.
- Setting project missions and milestones and reporting indicators for all project personnel.

Webcor/Obayashi Joint Venture EHS is further responsible for monitoring the subcontractor's compliance with the Webcor/Obayashi Joint Venture EHSP. Webcor/Obayashi Joint Venture EHS must help ensure that the guidelines, rules and procedures in this document are followed for site work, being familiar with local emergency services and conducting or taking the necessary steps to help ensure that tool box/tailgate safety meetings are conducted before work startup. Additional meetings may be required for specific job tasks or site activities. Webcor/Obayashi Joint Venture EHS also must help monitor the maintenance and inspection of PPE, onsite hazards, the physical condition of site personnel, and perform daily safety audits of work site activities.

Additional duties include maintaining safety files, which will include training and applicable medical certifications, environmental testing and special associated training, tool box/tailgate meeting notes and rosters, safety observation/audit reports, investigation reports including near-misses, injury summaries, required safety permits, security issues, or other safety and health documentation, as applicable. Webcor/Obayashi Joint Venture EHS has the authority to stop any operations that pose a potential threat to site personnel.

Furthermore, Webcor/Obayashi Joint Venture EHS will:

Report unsafe acts and conditions to the worker's supervisor and/or safety coordinator for prompt corrective action and stop all life threatening situations immediately upon knowledge. Webcor/Obayashi Joint Venture requires prompt correction of safety infractions.

Help monitor the subcontractor selection process and adherence to established environmental safety and health guidelines

If the subcontractor does not make immediate corrections after initial notification, Webcor/Obayashi Joint Venture EHS will:

- Notify the subcontractor's Project Management in writing to make prompt corrective action to help eliminate construction safety concerns.
- Forward copies of the written notice to Webcor/Obayashi Joint Venture Project Management
- Develop the direction to help resolve outstanding construction safety issues and maintain documentation of corrective actions

Help ensure that the proper steps are taken in the case of emergencies when a major event resulting in a fatality, multiple injuries, or property loss occurs. Webcor/Obayashi Joint Venture EHS is responsible for requiring that we preserve the accident scene in an "as is" condition, including any construction equipment involved, to allow for a proper investigation. Webcor/Obayashi Joint Venture EHS must order, if necessary, the area or piece of equipment to be stabilized to preclude further injuries or loss. Notify Webcor/Obayashi Joint Venture Project Manager should we be subjected to an OSHA (federal or state) inspection. Should citations, warnings or safety violations be issued, we copies to Webcor/Obayashi Joint Venture Corporate EHS manager within 48 hours.

NOTE: Webcor/Obayashi Joint Venture EHS manager may assign all or some of these tasks to other responsible persons as appropriate.

Webcor/Obayashi Joint Venture Project Engineer (David Fields)

The Webcor/Obayashi Joint Venture Project Engineer assists the Webcor/Obayashi Joint Venture Project Manager with his/her responsibilities for construction management services for the project. This person will:

• Complete weekly jobsite safety audits

- Participate in pre-task planning, and subcontractor pre-bid, pre-construction, and/or kick-off meetings
- Assist with jobsite safety startup, safety orientations, and craft feedback luncheons
- Participate in fact finding, root cause analysis, and implementing corrective actions to prevent further occurrences on all injury/incident investigations
- Attend and/or participate in jobsite safety meetings

Webcor/Obayashi Joint Venture Supervisor/ Foremen (Michael Poole)

The Webcor/Obayashi Joint Venture Supervisor/Foreman will interface daily with his/her workers. Therefore, the Webcor/Obayashi Joint Venture Supervisor/Foreman will have a major influence on the effectiveness of the safety program and accident experience. Each Supervisor/Foreman's construction safety responsibilities will include:

- Training and instructing workers in safe work practices for all tasks to which they are assigned
- Helping ensure crew participation in pre-task planning
- Helping ensuring availability of and enforce the proper use of jobsite tools and PPE
- Monitoring the work area for unsafe acts and conditions and instituting immediate corrective action
- Setting a good example for workers
- Pre-planning activities to help ensure workers are properly trained in applicable safety requirements
- Conducting daily pre-job meetings to include review of day's activities and associated hazards
- Ensuring all injury reports are properly completed and submitted to Webcor/Obayashi Joint Venture EHS or designee
- Participating in fact finding, root cause analysis, and the implementation of corrective actions
 associated with injury/incident investigations, and providing information regarding these actions
 to Webcor/Obayashi Joint Venture Project Management/Regional Leadership
- Reporting and assisting with the resolution of near miss incidents
- Helping provide first aid care for injured workers
- Promoting and supporting Injury Free culture
- Leading tool box/tailgate safety meetings with the crew to:
- Encourage participation
- Discuss observed accident trends and causes
- Plan construction safety into crew's work activities
- Take action to correct safety-related concerns

Webcor/Obayashi Joint Venture Project Safety Coordinator (TBD)

The Webcor/Obayashi Joint Venture Safety Coordinator's primary responsibility is to ensure immediate corrective action of observed unsafe acts and unsafe conditions. This person will:

- Report unsafe acts and conditions to the worker's supervisor and/or safety coordinator for prompt corrective action and stop all life threatening situations immediately upon knowledge
- Orientate all new Webcor/Obayashi Joint Venture workers according to the Project Site-Specific Safety Orientation
- Make twice daily job site safety audits
- Facilitate daily safety coordination meetings with subcontractor safety coordinators (as applicable)
- Provide appropriate materials and conduct weekly tool box/tailgate meetings or safety meetings, as well as:
- Review meeting reports for attendance
- Help implement required training programs for workers
- Report, in writing to the project EHS manager the names of individuals and their supervisors who
 are continually observed to violate construction safety requirements, with copies to
 Webcor/Obayashi Joint Venture Project Management. Webcor/Obayashi Joint Venture Project
 Management may require that we remove these individuals and/or their supervisors from the job
 site. Also, Webcor/Obayashi Joint Venture Project Management and/or Webcor/Obayashi Joint
 Venture EHS is/are authorized to order a work stoppage until present unsafe conditions are abated.
- Report all injuries immediately to Webcor/Obayashi Joint Venture EHS Manager.
- Participate in fact finding, root cause analysis, and resolution on all injury/incident investigations
- Participate in completion and forwarding of all Injury Accident Investigation Packets (injury, liability, property damage, and the like) to Webcor/Obayashi Joint Venture Claims Manager.
- Promote and support Injury Free culture.
- Keep on file the following:
- Updated chemical management plan, including chemical inventory lists and Material Safety Data Sheets (MSDSs) for all products used or stored onsite

Subcontractor Responsibilities

The subcontractor has overall responsibility for accident prevention and implementation of this Webcor/Obayashi Joint Venture EHSP for anyone under their control, including their respective employees, vendors and suppliers. This responsibility is shared with the tiered subcontractors. . Where subcontractor is not using Safety Professional(s)/Safety Coordinator(s) the subcontractor will assign safety responsibilities to a member of subcontractor Project Management. This assignment is subject to approval by Webcor/Obayashi Joint Venture Management and Webcor/Obayashi Joint Venture EHS, or designee.

Subcontractors will submit a copy of their company's safety program prior to beginning work. All subcontractor workers must be orientated to their company's safety program as well as to applicable sections of this Webcor/Obayashi Joint Venture EHSP.

The subcontractor may be responsible for providing their Safety Professional(s)/Safety Coordinator(s) or designee with a reliable communication method or device in order to contact Webcor/Obayashi Joint

Venture Project Management and Webcor/Obayashi Joint Venture EHS during emergency response and/or other safety related communications.

Although many existing hazards may be corrected through informal communications between the subcontractor's Safety Professional/Safety coordinator or designee and members of Webcor/Obayashi Joint Venture Project Management, all corrective actions must be documented, with copies forwarded to Webcor/Obayashi Joint Venture Project EHS Manager.

Subcontractor's Project Manager

The subcontractor's Project Manager is responsible for:

- Planning and monitoring all work performed for compliance with the objectives of the Webcor/Obayashi Joint Venture EHSP, subcontractor's safety program, and federal, state and local safety and health regulations
- Authorizing immediate correction of any existing construction safety-related concerns
- Fully supporting the designated Safety Coordinator and cooperating with all designated project safety personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Completing weekly safety audits
- Participating in pre-task planning and subcontractor kick-off meetings
- Participating in fact finding, root cause analysis, and resolution on all injury/incident investigations
- When requested, attending special construction safety meetings

Subcontractor Superintendent/Supervision/Foremen

All supervisory personnel shall have as a minimum the OSHA 30 Hour Construction Safety training within the prior four years and possess a current CPR /First Aid and AED certification. In addition supervisory personnel shall have at a minimum 5 years' experience as a superintendent in a similar type of project. Responsibilities of Subcontractor Superintendent/Supervisor/Foremen are the same as Webcor/Obayashi Joint Venture Superintendent/Supervisor/Foremen, plus:

• Attending weekly contractors' safety meetings

Subcontractor's Safety Professional

This person will:

- Report all incidents and injuries immediately to Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS
- Perform continuous safety audits of all their respective trade contractors and their subcontractors' work areas throughout the entire workday and take immediate action to eliminate all unsafe acts and/or conditions. These observations, along with corrective actions taken will be reported to the appropriate member of Webcor/Obayashi Joint Venture Project Management, the subcontractor's own management, and Webcor/Obayashi Joint

Venture EHS, using the SafeSiteOne Safety Inspection Report. These forms will be completed daily and submitted to Webcor/Obayashi Joint Venture Project Management/EHS.

- Serve as technical advisors to their project management team on safety and health planning, training and problem resolution issues.
- Ensure that prior to the commencement of any work activity; every Supervisor/Foreman reviews each task assignment with every affected employee to ensure a comprehensive understanding of the safety requirements and precautions to be followed while performing this work. The Safety Professional(s) and Supervisor/Foremen should further ensure that all of the necessary guards are in place, safety equipment is provided, and other required steps are taken prior to starting the work.
- Each Safety Professional has the right and the authority to direct stoppage of any work of any contractor whenever imminent danger to life and health exists.
- Each Safety Professional has the right and authority to stop any and all hazardous work activities being performed by his/her company or their subcontractors until necessary corrective actions are taken.
- Ensure that appropriate personal protective equipment is provided and its use enforced
- Enforce their company's safety program and disciplinary procedures
- Accompany Webcor/Obayashi Joint Venture's supervisory personnel as directed and perform joint inspections of work areas and activities
- Orient all new subcontractor personnel to the site's safety program prior to work commencement
- Complete and forward all claim forms (injury, liability, property damage, and the like).
- Attend and participate in daily Safety Coordination Meetings
- Participate in accident investigations and recommend proper courses of corrective action.
 When serious accidents occur, this task will be performed in conjunction with
 Webcor/Obayashi Joint Venture EHS and Webcor/Obayashi Joint Venture and the
 subcontractor Project Management or their representatives.
- Provide appropriate materials for those conducting weekly tool box/tailgate meetings or safety meetings, as well as:
 - Review safety meeting reports for attendance
 - Attend and periodically conduct tool box/tailgate meetings to evaluate their effectiveness
 - Implement required safety training programs for subcontractor employees and supervisors

No full time Safety Professional shall be assigned any duties other than assuring the safety and health of the personnel employed by their company or their subcontractors.

Subcontractor's Safety Coordinator

The subcontractor's Safety Coordinator's responsibilities include assuring immediate corrective action to eliminate observed unsafe acts and unsafe conditions. This person will:

- Report all incidents and injuries immediately to Webcor/Obayashi Joint Venture Project Management/EHS.
- Orient all new subcontractor personnel to the site's safety program prior to work commencement
- Make daily job site safety observations/audits (to be documented daily) and provide copies of documentation to Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS
- Complete and forward all claim forms (injury, liability, property damage, and the like).
- Attend and participate in daily safety coordination meetings
- Participate in accident investigations and recommend proper courses of corrective action.
 When serious accidents occur, this task will be performed in conjunction with
 Webcor/Obayashi Joint Venture Project Management/EHS and subcontractor Project
 Management or their representatives.
- Provide appropriate materials for those conducting weekly tool box/tailgate meetings or safety meetings, as well as:
 - Periodically conduct tool box/tailgate meetings
 - Implement required training programs for workers and supervisors
 - Provide necessary information for the obtaining of motor vehicle records for all crane operators on site

Everyone's Responsibilities

- Report injuries *immediately* to supervision
- Work according to good safety practices as posted, instructed and discussed
- Comply with Webcor/Obayashi Joint Venture EHSP and subcontractor's safety program
- Use all required safety devices
- Report any unsafe situation or act to supervisor and/or designated Safety Coordinator/designee immediately (unsafe conditions and acts must be corrected when noticed to effectively prevent accidents)
- Maintain a clean and safe work area
- Come to work alert and free of any impairment that may affect safety
- Follow the site's Safe Work Practices
- Promote and support the Injury Free Environment: Agree to be held accountable for your safety, and the safety of others

- In addition, EVERYONE is held accountable for their designated assignments of responsibilities as denoted in their respective definitions; i.e., Project Manager, Superintendent, etc.
- Refrain from performing any work which may feel unsafe or for which proper equipment and/or training have not been provided

SAFETY DISIPLINARY POLICY

Under Webcor/Obayashi Joint Venture, all employees are required to follow company safety policies and operating procedures. When needed, employees will be provided with additional training and information, or retraining to maintain their knowledge.

Although Webcor/Obayashi Joint Venture reserves the right to discharge "at will," we believe that employees found performing work in an unsafe manner that would endanger the employee or another employee shall be subject to discipline or termination by management. Webcor/Obayashi Joint Venture strictly maintains a zero tolerance policy towards violations involving, but not restricted to: fall protection, lock-out/tag-out, and confined space.

The Webcor/Obayashi Joint Venture Project Management/Site Safety Manager will determine the course of action best suited to the circumstances. The steps to be taken at a minimum shall include the following:

- <u>Verbal Warning</u> As the first step in correcting unacceptable behavior, the Supervisor shall review the pertinent facts with the employee. The Supervisor will consider the severity of the problem, and the employee's past performance. A verbal warning will be issued to the employee, if necessary; the employee will be placed on probation.
- <u>Written Warning</u> If the unacceptable performance continues, the next step will be a written warning. The written warning will clearly state the safety policy that was violated. Probation will be a part of the written warning. It may also include time off without pay. At the completion of the probationary period, the supervisor will meet with the employee to determine if the employee has achieved the required level of performance.
- <u>Termination</u> The employee may be terminated if he does not improve his performance while on probation, or has violated another company safety policy within twelve months.

LADDER SAFETY RULES

General:

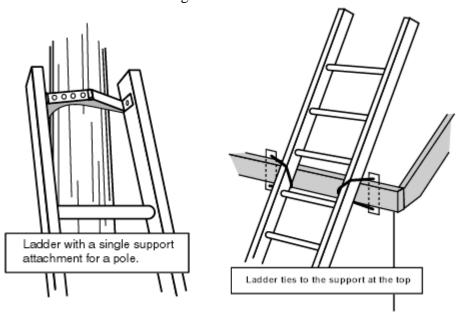
- Inspect before use for physical defects.
- Ladders are not to be painted except for numbering purposes.
- Do not use ladders for skids, braces, workbenches, or any purpose other than climbing.
- When you are ascending or descending a ladder, do not carry objects that will prevent you from grasping the ladder with both hands.
- Always face the ladder when ascending and descending.
- If you must place a ladder over a doorway, barricade the door to prevent its use and post a warning sign.
- Only one person is allowed on a ladder at a time.
- Do not jump from a ladder when descending.
- All joints between steps, rungs, and side rails must be tight.
- Safety feet must be in good working order and in place.
- Rungs must be free of grease and/or oil.

Stepladders

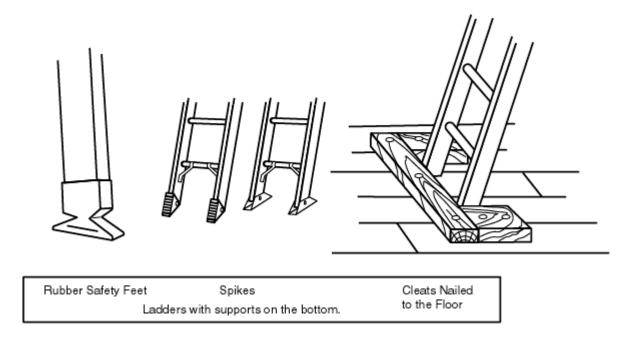
- Do not place tools or materials on the steps or platform of a stepladder
- Do not use the top two steps of a stepladder as a step or stand.
- Always level all four feet and lock spreaders in place.
- Do not use a stepladder as a straight ladder.

Straight type or extension ladders

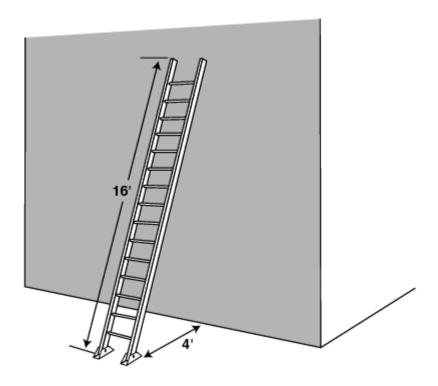
- All straight or extension ladders must extend at least three feet beyond the supporting object when used as an access to an elevated work area.
- After raising the extension portion of a two or more stage ladder to the desired height, check to ensure that the safety dogs or latches are engaged.
- All extension or straight ladders must be secured or tied off at the top.



• All ladders must be equipped with safety (non-skid) feet.



• Portable ladders must be used at such a pitch that the horizontal distance from the top support to the foot of the ladder is about one-quarter of the working length of the ladder.



GENERAL MATERIALS HANDLING SAFETY

General material storage safety:

- Make sure that all materials stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, falling, or collapse.
- Post conspicuously the maximum safe load limits of floors within buildings and structures, in pounds per square foot, in all storage areas, except for floor or slab on grade. Do not exceed the maximum safe loads.
- Keep aisles and passageways clear to provide for the free and safe movement of material handling equipment or employees. Keep these areas in good repair.
- Do not store materials on scaffolds or runways in excess of supplies needed for immediate operations.
- Use ramps, blocking, or grading when a difference in road or working levels exists to ensure the safe movement of vehicles between the two levels.
- Do not place materials stored inside buildings under construction within 6 feet of any hoist way or inside floor openings, or within 10 feet of an exterior wall which does not extend above the top of the material stored.
- Segregate non-compatible materials in storage.
- Stack bagged materials by stepping back the layers and cross-keying the bags at least every ten bags high.
- Carefully handle cement and lime delivered in paper bags to prevent the bags from bursting.
- Do not pile cement and lime bags more than ten bags high except when stored in bins or enclosures built for the purpose of storage.
- When bags are removed from the pile, keep the length of the pile at an even height and maintain the necessary step backs every five bags.
- When handling cement and lime bags, wear eye protection preventing any contact with the substance (such as goggles or other sealed eye protection) and wear long sleeve shirts with close fitting collar and cuffs.
- Do not wear clothing that has become hard and stiff with cement.
- Make sure to report any susceptibility of skin to cement and lime burns.
- Make sure that a hand cream or Vaseline and eyewash is provided and kept ready for use to prevent burns.
- Store lime in a dry place to prevent a premature slacking action that may cause fire.
- Do not stack bricks more than 7 feet high. When a loose brick stack reaches a height of 4 feet, taper it back 2 inches for every foot of height above the 4-foot level.
- Never stack bricks, for storage purposes, on scaffolds or runways.
- Always stack blocks; do not throw in a loose pile.
- When stacking masonry blocks higher than 6 feet, taper back the stack one-half block per tier above the 6-foot level.
- When stacking inside a building, distribute the piles to prevent overloading the floor.
- Do not drop or throw blocks from an elevation or deliver blocks through chutes.
- Do not stack lumber more than 20 feet high; if handling lumber manually, do not stack more than 16 feet high.
- Remove all nails from used lumber before stacking.
- Stack lumber on level and solidly supported sills, and such that the stack is stable and self-supporting.

- Stack stored lumber on timber sills to keep it off the ground. Sills must be placed level on solid supports.
- Place cross strips in the stacks when they are stacked more than 4 feet high.
- If not racked, stack and block structural steel, poles, pipe, bar stock, and other cylindrical materials as to prevent spreading or tilting.
- Wear heavy gloves when handling reinforcing steel.
- When bending reinforcing steel on the job, use a strong bench set up on even dry ground or a floor to work on.
- Carefully pile structural steel to prevent danger of members rolling off or the pile toppling over.
- Keep structural steel in low piles, giving consideration to the sequence of use of its members.
- Stack corrugated and flat iron in flat piles, with the piles not more than 4 feet high; place spacing strips between each bundle.
- Frequently inspect stock piles of sand, gravel, and crushed stone to prevent their becoming unsafe by continued adding to or withdrawing from the stock.
- Do not remove frozen material in a manner that would produce an overhang.

General Rigging Equipment Safety:

- Inspect rigging equipment for material handling prior to use on each shift and as necessary during its use to ensure that it is safe. Remove defective rigging equipment from service.
- Never load rigging equipment in excess of its recommended safe working load.
- Remove rigging equipment when not in use from the immediate work area so as not to present a hazard to employees.
- Mark special rigging accessories (i.e., spreader bars, grabs, hooks, clamps, etc.) or other lifting accessories with the rated capacity. Proof tests all components to 125% of the rated load prior to the first use. Maintain permanent records on the job site for all special rigging accessories.

Disposal of waste materials:

- Whenever materials are dropped more than 20 feet to any point lying outside the exterior walls of the building, use an enclosed chute of wood or equivalent material.
- When debris is dropped without the use of chutes, make sure that the area onto which the material is dropped is completely enclosed with barricades at least 42 inches high and 20 feet back from the projected edge of the opening above. Post at each level warning signs of the hazard of falling materials. Do not remove debris in this lower area until debris handling ceases above.
- Remove all scrap lumber, waste material, and rubbish from the immediate work area as the work progresses.
- Make sure to comply with local fire regulations if disposing of waste material or debris by burning.
- Keep all solvent waste, oily rags, and flammable liquids in fire-resistant covered containers until removed from the work site.

FIRE PREVENTION PROGRAM

Purpose:

To reduce to a minimum the possibility of fire damage and associated losses incurred during the construction of the Project.

The following program, by no means complete, is the guide to be used on the Project to aid in preventing the spreading of materials loosed by fires and gases associated with combustion, etc.

Fire Protection

- All temporary electric service, equipment, and wiring must be in accordance with Cal OSHA and NFPA 70, National Electric Code (NFPA 241, Section 4-1.1).
- Storage of any material within 10 feet of fire hydrants is strictly prohibited.
- Work areas shall be policed on a regular basis to prevent accumulation of material. All combustible waste material, dust, and debris shall be removed from the building and its immediate vicinity at the end of each work shift, or more frequently as necessary, for Safe operations (NFPA 241, Section 3-4.1).
- No motors or machinery shall be left running during nonworking hours except as specifically directed by Webcor/Obayashi Joint Venture.
- All heating equipment shall have necessary Safety devices and shall be wired, piped, and operated according to all applicable codes, rules and regulations, and manufacturers' instructions.
- All tarps and blankets shall be of fire-retardant material.
- All fuel and solvent containers shall be in approved containers and placed on drip pans. Storage of these materials shall be in accordance with product Material Safety Data Sheets, statutory Hazardous Material requirements, and Fire Department requirements.
- No open or burning fires shall be permitted onsite. Anyone doing so will be subject to immediate dismissal.
- No solid fuel shall be permitted on the site.
- Fire extinguishers shall be placed and maintained on the job in conspicuous and identified locations per Cal/OSHA Title 8 Construction Safety Orders, Article 36, Section 1922, (a), (1). These fire extinguishers shall not be moved or discharged, except for fighting a fire. Anyone discharging an extinguisher as a prank will be subject to immediate dismissal.
- All gas bottles, such as propane, oxygen, and acetylene, shall be stored and secured in a vertical position in areas designated by Webcor/Obayashi Joint Venture. All stored bottles shall be capped. Oxygen and acetylene will not be stored within 20 feet of each other or must be separated by a one-half-hour-rated fire barrier. At no time during construction shall propane or LPG be stored inside of a structure or building.
- All oxygen and acetylene in use shall be in proper carts with required separations and with an attached 10 BC, minimum, fire extinguisher.
- During welding or cutting operations, a fire watch with fire extinguisher will be required and shall be the responsibility of the subcontractor or its sub-subcontractor performing the work. The need of a hot work permit may be needed, depending on location and circumstances for such. Permits will be obtained from the Project Safety Manager.

Fire Fighting

- Appropriate action is the key to the prevention of loss of life and property damage. This action in the first minute is worth gallons of water ten minutes later.
- If a fire occurs, notify the local fire department and Webcor/Obayashi Joint Venture immediately.
- Extinguish fire with a noncombustible, such as sand, or an available fire extinguisher.
- Remove or shut off fuel supply, such as removing debris or stored material, or shutting off fuel supply.

Welding and Cutting Permit Program for "Hot Work"

- The Site Safety Manager will act as the Fire Safety Manager.
- Each subcontractor shall notify Webcor/Obayashi Joint Venture of proposed "Hot Work" through a "Welding/Cutting Permit" application to the Fire Safety Manager.
- The Fire Safety Manager shall review the Permit form with the subcontractor to assure that all areas of concern are accounted for in fire protection.
- The Fire Safety Manager shall keep a log of all Permits.
- Permissible Areas:
 - New construction: When all fire prevention measures are taken, permits shall be authorized for the work.
 - New construction work shall require the presence of a dedicated fire extinguisher (20 lb, ABC), provided by the subcontractor performing the work, and any other preventive measures as may be necessary for protection of life and property, such as fire blankets, water supply, etc.
 - The subcontractor and the Fire Safety Manager shall ensure that the surrounding area(s) are free of combustible material per NFPA 51B.
 - When the work is of the nature that "hot" material may fall to areas below, the subcontractor and the Fire Safety Manager shall ensure that those areas are free of combustible material or material that may otherwise be damaged. Work in place must be protected by the subcontractor performing the work.
 - When "Hot Work" is performed in Permit Required Confined Spaces, the applicable Standards will be followed for Permit Required Confined Space work.
 - "Hot Work" shall not be performed near fuel storage areas or other areas where combustible vapors may accumulate.
 - Occupied Buildings: "Hot Work" shall not be performed in occupied buildings without notification of the local Fire Department responding agency (local Engine Company).
 - The fire suppression system for the building must be in operation.
 - The appropriate Building or Department Managers must be notified and the work coordinated with their operations.
 - Preparation for the work and clearing of combustible materials shall be in accordance with NFPA 51B. Combustible material shall be cleared from the work area by a distance of 35 feet.

Office, Tool Sheds, Etc.

- Shall be constructed of fire-resistive materials and heated with approved fire-safe heating devices in accordance with manufacturers' instructions.
- Shall be separated from materials which present extraordinary fire hazards in accordance with NFPA 241, 241, Table 2-1.1).

- Shall be equipped with a minimum of one 20-lb. ABC fire extinguisher each, in accordance with Cal/OSHA Title 8 Construction Safety Orders, Article 36, Section 1922, (a), (1).
- Shall have a 40-gallon waste container adjacent to it.
- Shall not be used to store oily rags, oily clothes, or fuels.

The principles outlined above should provide a reasonable change for a fire-free job. Strict adherence to the intent of this program is to be considered a contractual requirement. (See attached appendix for Hot Work Permit.)

APPENDIXES

ASBESTOS ABATEMENT PROGRAM

THE CHARACTERISTICS OF ASBESTOS

There are no visible signs that asbestos is particularly hazardous. Also, no immediate side effects are experienced by workers after exposure. But this common mineral can cause lung disease, cancer and even death if not handled safely. This is why the Standard requires that workers who don't really work directly with asbestos, but who may have incidental exposure, must receive at least "Asbestos Awareness" training.

To help address OSHA's concerns, and provide the awareness training needed by employees under the regulation, this program is designed to present fundamental information.

Employees should understand how long-term exposure to asbestos can harm the human body. Employees should recognize the areas where asbestos may be located in their project.

Employees should know which asbestos and asbestos-containing materials should be repaired and/or removed.

Employees should understand how to avoid potential hazardous maintenance and custodial activities that could lead to asbestos exposure.

Employees should know what personal protective equipment to use to protect against asbestos exposure.

Employees should understand which safe work practices should be used when helping with a minor asbestos clean-up.

Employees should understand why, when there is the potential for exposure to asbestos, air monitoring and medical surveillance can be important elements in providing a safer workplace.

Employees should be familiar with certain requirements in the OSHA Asbestos Standard...especially those concerning workplace controls and personal protective equipment.

Outline of Major Program Points

The following outline summarizes the major points of information employees should be familiar with.

- Asbestos is a mineral which has many positive qualities. It is:
 - Fireproof.
 - Heat resistant
 - Lightweight.
 - Resistant to most chemicals.
 - Sound-absorbing.
 - And it does not conduct electricity.

- Products that contain Asbestos can be helpful, but they can also be very harmful.
- Asbestos has hidden dangers that you need to know about.
- While most rocks break down into tiny particles, like grains of sand... Asbestos breaks down into small fibers, like strands of rope.
 - These fibers are invisible to the human eye.
 - You need a powerful microscope to see them.
 - These fibers have the strength of steel.
- The biggest problem when dealing with Asbestos fibers is that you cannot:
 - See them.
 - Taste them.
 - Smell them.
- If Asbestos fibers enter your body, they can cause severe damage.
- Asbestos has been used throughout the building and construction industry. It was:
 - Mixed with plaster and wallboard for strength and support.
 - Sprayed onto wall, ceilings, and steel girders for fireproofing.
 - Wrapped around pipes, boilers and heating ducts for insulation.
 - Even in floor and ceiling tiles.
- Several types of workers need to know about the hazards of working with or near Asbestos:
 - Custodial.
 - Engineering.
 - Maintenance.
- Asbestos hazards are so serious that OSHA has issued a Standard requiring that employees be:
 - Trained
 - Monitored.
 - Protected.
- As part of the training in this program, you will learn:
 - The health risks and effects of long-term Asbestos exposure.
 - How to recognize and deal with possible Asbestos hazards.
 - The content of your employer's Asbestos Management Plan.
- Asbestos fibers can float in the air for long periods of time, and can be easily inhaled.
 - They can cause severe damage to the lungs.
 - Yet in most instances there are not any immediate side-effects.
- This exposure to Asbestos fibers can lead to a disease known as "Asbestosis."
 - It can cause shortness of breath.
 - It may cause enlargement of the heart.
 - In extreme cases, it can even cause death.
- Long-term exposure to Asbestos fibers can also lead to cancer.
- People who smoke are especially vulnerable to Asbestos.
 - Cigarette smoke breaks down the lungs' defensive system, and leaves them vulnerable to Asbestos fibers.
 - Smokers are over 50 times more likely to become sick after long-term exposure to Asbestos.
- Some of the ways to reduce your exposure to Asbestos including knowing:
 - Where it is located in your work areas.

- How to recognize potential problems.
- What to do if you find damaged Asbestos materials.
- If Asbestos-Containing materials are located in your workplace, your facility will have an Asbestos Management Plan.
 - The plan will contain a list of Asbestos materials.
 - There should also be a sign o a label at each location to warn you about Asbestos.
 - Notify your supervisor if there is not a sign where Asbestos may be present.
- Asbestos materials that you may encounter generally fit into two categories:
 - Friable.
 - Non-Friable.
- "Friable" Asbestos material can be easily damaged or broken:
 - This can release dangerous fibers into the air.
- "Non-Friable" material is not damaged as easily, but can also release asbestos fibers.
- The three most common materials that contain Asbestos are:
 - Thermal system insulation.
 - Floor tiles.
 - Sprayed-on materials.
- Thermal system insulation is the most common type of friable Asbestos material, and can be found on:
 - Boilers.
 - Utility pipes.
 - Ductwork.
 - Heating systems.
- Keep a look-out for possible problems with this Asbestos material.
 - Even a small tear in the insulation is a potential hazard
- If you encounter damaged insulation, minimize the chance of exposure by acting immediately.
 - Secure the area, even if you are not sure that the material contains Asbestos.
 - Post a warning sign.
 - Notify your supervisor, your facility's environmental manager or an outside company (if appropriate).
- If you cannot fix the situation immediately, you may be asked to temporarily patch the damaged area.
 - Before starting work, put on appropriate personal protective equipment.
 - This may include gloves, a respirator and disposable overalls.
 - Wrap the damaged material with strong plastic.
 - Secure it with duct tape.
- The professionals will find a more permanent solution.
 - When they arrive, keep clear and let them do their work.
- Never handle or remove any Asbestos material unless authorized and properly equipped.
 - If Asbestos material needs to be removed, first talk to your supervisor to find out who in your facility is qualified.
- Floor tiles, as well as the glue used to stick the tiles to the ground, can also contain Asbestos.
 - Although floor tiles are non-friable, if they are damaged they can still release fibers.
 - Look for cuts, grooves or cracks in the material.

- If you notice damage, seal off the area and notify your supervisor.
- Do not grind, cut or break apart floor tiles, since this could release fibers.
- If you need to strip a floor's finish, use the "Wet Method."
 - Dampen the floor so fibers are less likely to become airborne.
 - Use a Low Abrasion Pad, at speeds of less than 300 rpm, for safe cleaning.
- Ceiling tiles may also contain Asbestos.
 - Be careful when changing light bulbs or replacing tiles.
 - Look for broken corners or other damaged areas.
 - Both are signs that the tiles may be releasing fibers.
- Asbestos may also be found sprayed onto ceilings and walls.
 - They are friable materials.
 - They must be handled with extreme caution.
- Sprayed on materials can also peel away from a surface, and the dust and debris could contain Asbestos.
 - Do not sweep or shovel material while "dry."
 - This stirs up fibers into the air where they can be inhaled.
 - Report the problem to your supervisor, who will arrange for clean-up and disposal.
- Depending on the job, you may be asked to assist in the repair or removal of Asbestos at your facility.
 - Make sure that you use proper personal protective equipment.
 - Although Asbestos is not a skin contact hazard, by wearing disposable overalls your decontamination will be much easier.
- You will also need to wear a respirator fitted with special filters, to help prevent you from inhaling fibers.
 - The respirator must be the right size and shape for your face.
 - "Fit test" the respirator to prevent gaps between your face and the mask, so Asbestos fibers cannot "leak" through.
 - You'll be trained to clean and maintain your respirator, as well as how and when to change the filters.
- When cleaning up any Asbestos-Containing materials, never use an ordinary vacuum.
 - Even a shop-grade vacuum will send fibers into the air.
 - Vacuums used for Asbestos clean-up must be fitted with special HEPA filters.
 - These "High Efficiency Particulate" fibers prevent the release of Asbestos fibers into the air.
- Remember to use the "wet method" during clean-up activities.
 - Make sure the Asbestos is wet before, during and after handling, even if a HEPA vacuum is used
 - After any clean-up, "wet wipe" the area with a damp cloth.
 - Be sure to dispose of the cloth properly.
- Asbestos materials must be properly bagged and labeled.
 - Use only official "Asbestos Disposal Bags" for this purpose.
 - When labeling a bag, use a "Generator Label" which lists the name and address of your facility.
- If an Asbestos Disposal Bag becomes torn, seal it immediately with tape.
 - Place the damaged bag inside a new bag and reseal it.

- Place a Generator label on the new outer bag.
- Remember, Asbestos is a regulated waste (it must be hauled to a licensed landfill).
- When helping with an Asbestos cleanup, you may be asked to wear an Air Sampling Device.
 - It measures the airborne concentration of Asbestos fibers in your work area.
 - An air pump is strapped to your waist, and a sampling cassette is taped to the front of your shoulder.
 - After you turn in the cassette, the air sample is analyzed for Asbestos content.
- After any work with Asbestos materials, you must decontaminate yourself and your equipment.
 - This prevents the spread of Asbestos dust and debris.
 - Always use an official decontamination area.
 - It should be equipped with a HEPA vacuum, as well as a plastic drop cloth (to contain any loose fibers).
- Never eat, drink or smoke in these decontamination areas, or any other area where Asbestos is present.
 - This increases your chance of inhaling fibers.
- When decontaminating your clothing, never brush off dust or debris.
 - This sends Asbestos fibers into the air.
 - Use a HEPA vacuum to remove these materials from your clothing before taking it off.
 - Also vacuum your equipment and Asbestos Disposal Bags.
- Remember that your overalls will be contaminated, and must be disposed of as a regulated waste.
 - Seal them in as Asbestos Disposal Bag.
- Scrub your hands and face with soap and water before leaving work.
 - If possible, shower before leaving your facility as well.
 - If not, shower immediately when you get home.
 - This prevents exposure to your family or friends.
- To provide an additional safeguard, you may be asked to participate in a Medical Surveillance Program.
 - This makes certain that you are not exposed to dangerous amounts of Asbestos.
 - It will also verify that you can safely wear a respirator.
- To provide an additional safeguard, you may be asked to participate in a Medical Surveillance Program.
 - This makes certain that you are not exposed to dangerous amounts of Asbestos.
 - It will also verify that you can safely wear a respirator.
- The Medical Surveillance Program requires regular visits to a doctor.
 - You may be asked to take a "breathing capacity" test, or have X-rays taken of your lungs.
 - This is provided free of charge.
 - If you have any questions, consult with your supervisor.
- A review of the most important points of the program:
 - Asbestos may be a hidden danger, but it is not hard to find ways to protect yourself.
 - Know where Asbestos is located in your facility, and check your Asbestos Management Plan.
 - Inspect all Asbestos locations at least twice a year.
 - Record the results of these inspections in an Asbestos Log Book for future reference.
 - Do not disturb Asbestos-Containing materials unless absolutely necessary.
 - Take steps to prevent contamination during operations involving Asbestos.

•	Always remember to decontaminate after coming into contact with any Asbestos materia

LEAD ABATEMENT PROGRAM

This program has been put in place because Webcor/Obayashi Joint Venture recognizes that some of the work we do has the potential to expose our employees to lead. We want to do as much as is practically possible to protect them from lead exposure.

Prior to the start of a project, professionals/Industrial Hygienist in lead detection and abatement will be brought in to do an <u>exposure assessment</u> to determine whether the work environments Webcor/Obayashi Joint Venture employees will be operating in have the potential to expose them to lead. These professionals will be used to give Webcor/Obayashi Joint Venture direction as to how to proceed. It will be our goal to have lead abatement taken care of by licensed lead abatement professionals prior to the arrival of Webcor/Obayashi Joint Venture employees.

To help address OSHA's concerns and provide the <u>lead awareness training</u> needed by employees, this program is designed to present fundamental information.

Lead can be found in a number of workplace environments. Until recently, lead was a common component in paints of all kinds (which can create exposure whenever sanding, "sandblasting," scraping, or even demolition occurs).

Workplace experience and empirical studies have shown that lead is fairly easily absorbed into the body. Breathing airborne lead dust and fumes is the most common route of entry. Lead can also be absorbed if it comes into contact with the mouth or tongue.

Overexposure to lead can occur both on an "acute" basis, where large amounts of lead are absorbed into the body in a short period of time, or on a "long-term" basis where small amounts of lead are absorbed at any one time, eventually accumulating to cause significant health problems.

On May 4, 1993, OSHA published the Interim Final Rule for Lead Exposure in Construction. The Construction Standard establishes "Interim" procedures and work practices that must be followed in construction environments. The OSHA Standard and its compliance requirements are included at the end of this written program. The Lead Standards are "performance based"; the standard will tell you what you have to accomplish.

There is really only one General Requirement in the Lead Standards. This requirement also essentially defines the objectives of the standards as far as OSHA is concerned. That is:

Employers must make sure that no employee is exposed to lead concentrations greater than 50 micrograms per cubic meter of air, averaged over an eight-hour period in any 24-hour day.

The rest of the standard addresses how to accomplish that goal.

Typically, OSHA requires that you use the following methods to protect your employees:

- Engineering controls.
- Work-practice controls.
- Respiratory protection.
- Personal protective clothing and equipment other than respirators.
- Hygiene facilities and practices.
- Housekeeping.
- Employee information and training.

OSHA requires that every employer who is covered by these Standards provide "Information and Training." For employers in the Construction Industry, it requires that they meet the training requirements of the Hazard Communication Standard ("Right To Know"). Information that must be given employees under the Hazard Communication Standard includes:

- The hazards associated with lead exposure.
- Warning signs and labels that can be found on materials containing lead.
- How to find information about materials containing lead on Material Data Safety Sheets (MSDS).
- Use of personal protective equipment.

THE WRITTEN COMPLIANCE PROGRAM

Prior to the start of a project, professionals/Industrial Hygienist in lead detection and abatement will be brought in to do an <u>exposure assessment</u> to determine whether the work environments Webcor/Obayashi Joint Venture employees will be operating in have the potential to expose them to lead. This policy will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project.

These professionals will give Webcor/Obayashi Joint Venture direction as to how to proceed. It will be our goal to have lead abatement taken care of by licensed lead abatement professionals prior to the arrival of Webcor/Obayashi Joint Venture employees.

INCIDENT REPORTING INSTRUCTIONS

1. Ensure the safety and security of the individual(s) that were injured or involved, other people on site, the public and the project.
2. If this is a 911 emergency consult your Crisis Management Plan.
3. All incidents requiring clinic visits contact Danielle DiRicco at 510-476-2578 or 650-520-4251.
4. Take photos of the incident scene and surrounding area immediately. Include these photos in the investigation report. Please number, date, use arrows to indicate specific targets, etc.
5. Contact your Area Safety Director/Manager.
6. For Webcor/Obayashi Joint Venture Field and Salaried employees complete the entire Incident Investigation Packet thoroughly. The DWC1 form will need to have signatures by both the employee and employer and a copy of the signed form must be given to the employee. You have a maximum of 24 hours to complete the packet. Send all forms via email or fax to Danielle DiRicco at fax number 510-476-3066.
 7. For Subcontractor injuries complete the following forms. You have a maximum of 24 hours to complete the forms. Send all forms via email or fax to Danielle DiRicco at fax number 510-476-3066. a. Incident Investigation Packet b. Injured Worker's Statement c. Supervisor's Statement d. Witness Statement
8. Before leaving the doctor's office, obtain the Physician's Release/Work Status and the Job Analysis/Work Recommendations Report from the clinic/hospital doctor after each doctor's visit via email or fax to Danielle DiRicco at 510-476-3066.
9. Provide training certificates, orientation documentation, Job Hazard Analysis for this specific task to include in the Incident Investigation Packet.
10. Contact your Area Safety Director/Manager if the injured worker must be hospitalized over twenty-four (24) hours for more than observation. OSHA must be contacted within eight (8) hours of the incident by the Area Safety Director/Manager or designated person.
11. In the event an incident results in a recordable, lost time or near miss a Root Cause Analysis (RCA) shall be performed. The RCA will be scheduled by the Area Safety Director/Manager and participation by the designated project team members is required. See attached Root Cause Analysis instructions.

INCIDENT INVESTIGATION REPORT FORM

#1 Employer Information:		
Company Name: WC Policy Number:		
Mailing Address:		
Nature of Business (type of contractor):		
Job Site Name: Project Number:		
Job Site Address:		
#2 Employee Information:		
Employee Name:		
Address:		
Street Address City State Zip Code		
Social Security Number: Male Female		
Phone Number: () Date of birth:/ Date hired:/		
Job Title:		
Employee usually works:hours per day,days per week, total weekly hours		
Employment Status: Full Time Part Time Temporary Seasonal		
Gross wages/salary: \$ per		
#3 Injury / Illness Information		
Date of Incident: Day of Week: Time of Incident:		
Time Employee Began Work:If Employee Died, Date of Death:		
Type of Injury: Part of body injured:		
Exact Location of Incident (Bldg. Level/Area):		
Employee's Direct Supervisor:Were they working on a crew? Yes No		
PPE worn at time of incident (list):		
Were other workers injured in this event? Yes No		
Date reported to Webcor/Obayashi Joint Venture:, to whom:		
Was the employee taken to a medical facility offsite? Yes No Date:		
Treating Facility & Phone Number:		

INCIDENT INVESTIGATION REPORT FORM (continued)

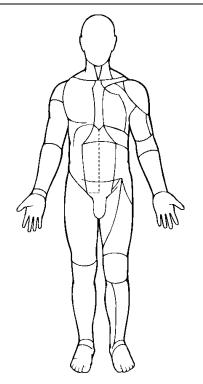
Physician's Name:
Employee Returned to: Regular Work Modified Work If not, estimated return date:
Were they unable to work for at least one day after date of injury? Yes No
Date Last Worked: Date Returned to Work: is employee still off work? Yes No
Was the employee paid full wages for date of injury or last day worked? Yes No
Is the employee's salary being continued? Yes No
Equipment, materials and chemicals the employee was using when event or exposure occurred (i.e.,
Acetylene, welding torch, tractor, scaffold)?
General activity at time of incident (i.e., concrete)?
Specific task at time of incident (i.e., Finishing)?
. , ,

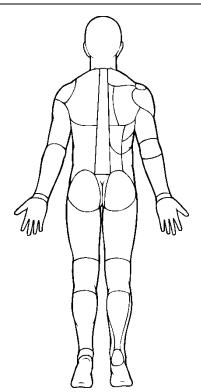
INCIDENT INVESTIGATION REPORT FORM (continued)

#4 Description of the Incident (not to be completed by injured worker):		
NOTE: This does not take the place of a witness Statement. Describe in detail the circumstances of the incident (attach diagrams, drawings and/or photos of accident scene). Give a chronological sequence of events. If materials and/or equipment were involved, start before the		
materials/equipment was brought to the incident scene describing who, what, where, when, how:		

Please indicate the location of all incurred injuries and describe the type of injury.

For example, for a laceration to the right palm – shade the right hand palm and write laceration next to it connected by a line.





INCIDENT INVESTIGATION REPORT FORM (continued)

#5 Additional Information			
Name of witnesses and others working with injured worker (attach witness statements):			
Object, substance, equipment involved in incident (desc	/model/serial #):		
List PPE worn at time of incident:			
Safety equipment, PPE & training required for job:			
Does employee normally operate this equipment? \(\subseteq \text{Y}			
Was employee instructed in the safe use of this equipme	nt? Yes No		
When/how? – Describe in detail & attach copies of equip	pment certifications):		
Was any defect with the equipment noted or reported pri Were standard work procedures followed? Yes N			
additional sheets if necessary and attach a copy of the standard site procedures			
Was a safety rule or specific instruction violated? Ye additional sheets if necessary and attach a copy of the ru	le/regulation?		
When was the last safety meeting conducted?			
When was the last jobsite audit conducted?			
Attach copies of the last safety meeting agenda with sign-in sheet and Job Hazard Analysis for specific			
task.			
Name: Nam	nagement Review By: ne: nature:		

State of California
Department of Industrial Relations
DIVISION OF WORKERS' COMPENSATION



Estado de California Departamento de Relaciones Industriales DIVISION DE COMPENSACIÓN AL TRABAJADOR

WORKERS' COMPENSATION CLAIM FORM (DWC 1)

Employee: Complete the "Employee" section and give the form to your employer. Keep a copy and mark it "Employee's Temporary Receipt" until you receive the signed and dated copy from your employer. You may call the Division of Workers' Compensation and hear recorded information at (800) 736-7401. An explanation of workers' compensation benefits is included as the cover sheet of this form.

You should also have received a pamphlet from your employer describing workers' compensation benefits and the procedures to obtain them.

Any person who makes or causes to be made any knowingly false or fraudulent material statement or material representation for the purpose of obtaining or denying workers' compensation benefits or payments is guilty of a felony.

7/1/04 Rev.

PETITION DEL EMPLEADO PARA DE COMPENSACIÓN DEL TRABAJADOR (DWC 1)

Empleado: Complete la sección "Empleado" y entregue la forma a su empleador. Quédese con la copia designada "Recibo Temporal del Empleado" hasta que Ud. reciba la copia firmada y fechada de su empleador. Ud. puede llamar a la Division de Compensación al Trabajador al (800) 736-7401 para oir información gravada. En la hoja cubierta de esta forma esta la explicatión de los beneficios de compensación al trabajador.

Ud. también deberla haber recibido de su empleador un folleto describiendo los benficios de compensación al trabajador lesionado y los procedimientos para obtenerlos.

Toda aquella persona que a propósito haga o cause que se produzca cualquier declaración o representación material falsa o fraudulenta con el fin de obtener o negar beneficios o pagos de compensación a trabajadores lesionados es culpable de un crimen mayor "felonia".

Employee—complete this section and see note above Empleado—complete esta sección y note la notación arriba.			
ι.	Name. Nombre,	Today's Date. Fecha de Hoy.	
2.	Home Address. Dirección Residencial.		
3.	City. Ciudad,	State, Estado Zip. Código Postal	
4.		Time of Injury. Hora en que ocurrióa.mp.m.	
5.	Address and description of where injury happened. Dirección/lug	ar dónde occurió el accidente.	
6.	Describe injury and part of body affected. Describa la lesión y pa	rte del cuerpo afectada	
7.	Social Security Number. Número de Seguro Social del Empleado.		
8.	Signature of employee. Firma del empleado.	· · · · · · · · · · · · · · · · · · ·	
Em	ployer—complete this section and see note below. Empleador-	–complete esta sección y note la notación abajo.	
9.	Name of employer. Nombre del empleador.		
10.	Address. Dirección.		
11.	Date employer first knew of injury. Fecha en que el empleador su	po por primera vez de la lesión o accidente.	
12.	Date claim form was provided to employee. Fecha en que se le en	tregó al empleado la petición.	
13.	Date employer received claim form. Fecha en que el empleado de	volvió la petición al empleador.	
14.	14. Name and address of insurance carrier or adjusting agency. Nombre y dirección de la compañía de seguros o agencia adminstradora de seguros.		
15.	Insurance Policy Number. El número de la póliza de Seguro.		
16.	16. Signature of employer representative. Firma del representante del empleador.		
		Telephone. Teléfono.	
your or re	bloyer: You are required to date this form and provide copies to insurer or claims administrator and to the employee, dependent presentative who filed the claim within one working day of ipt of the form from the employee.	Empleador: Se requiere que Ud. feche esta forma y que provéa copias a su compañía de seguros, administrador de reclamos, o dependiente/representante de reclamos y al empleado que hayan presentado esta petición dentro del plazo de <u>un día hábil</u> desde el momento de haber sido recibida la forma del empleado.	
SIG	SIGNING THIS FORM IS NOT AN ADMISSION OF LIABILITY EL FIRMAR ESTA FORMA NO SIGNIFICA ADMISION DE RESPONSABILIDAD		
Er	nployer copy/Copia del Empleador	☐ Claims Administrator/Administrador de Reclamos ☐ Temporary Receipt/Recibo del Empleado	

Workers' Compensation Claim Form (DWC 1) & Notice of Potential Eligibility Formulario de Reclamo de Compensación para Trabajadores (DWC 1) y Notificación de Posible Elegibilidad

Return to Work: To help you to return to work as soon as possible, you should actively communicate with your treating doctor, claims administrator, and employer about the kinds of work you can do while recovering. They may coordinate efforts to return you to modified duty or other work that is medically appropriate. This modified or other duty may be temporary or may be extended depending on the nature of your injury or illness.

Payment for Permanent Disability: If a doctor says your injury or illness results in a permanent disability, you may receive additional payments. The amount will depend on the type of injury, your age, occupation, and date of injury.

Vocational Rehabilitation (VR): If a doctor says your injury or illness prevents you from returning to the same type of job and your employer doesn't offer modified or alternative work, you may qualify for VR. If you qualify, your claims administrator will pay the costs, up to a maximum set by state law. VR is a benefit for injuries that occurred prior to 2004.

<u>Supplemental Job Displacement Benefit (SJDB)</u>: If you do not return to work within 60 days after your temporary disability ends, and your employer does not offer modified or alternative work, you may qualify for a nontransferable voucher payable to a school for retraining and/or skill enhancement. If you qualify, the claims administrator will pay the costs up to the maximum set by state law based on your percentage of permanent disability. SJDB is a benefit for injuries occurring on or after 1/1/04.

<u>Death Benefits</u>: If the injury or illness causes death, payments may be made to relatives or household members who were financially dependent on the deceased worker.

It is illegal for your employer to punish or fire you for having a job injury or illness, for filing a claim, or testifying in another person's workers' compensation case (Labor Code 132a). If proven, you may receive lost wages, job reinstatement, increased benefits, and costs and expenses up to limits set by the state.

You have the right to disagree with decisions affecting your claim. If you have a disagreement, contact your claims administrator first to see if you can resolve it. If you are not receiving benefits, you may be able to get State Disability Insurance (SDI) benefits. Call State Employment Development Department at (800) 480-3287.

You can obtain free information from an information and assistance officer of the State Division of Workers' Compensation, or you can hear recorded information and a list of local offices by calling (800) 736-7401. You may also go to the DWC web site at www.dir.ca.gov.link to Workers' Compensation.

You can consult with an attorney. Most attorneys offer one free consultation. If you decide to hire an attorney, his or her fee will be taken out of some of your benefits. For names of workers' compensation attorneys, call the State Bar of California at (415) 538-2120 or go to their web site at www.californiaspecialist.org.

impuestos. Los pagos por incapacidad temporal son dos tercios de su pago semanal promedio, con cantidades mínimas y máximas establecidas por las leyes estatales. Los pagos no se hacen durante los primeros tres días en que Ud. no trabaje, a menos que Ud. sea hospitalizado(a) de noche, o no pueda trabajar durante más de 14 días.

Regreso al Trabajo: Para ayudarle a regresar a trabajar lo antes posible, Ud. debe comunicarse de manera activa con el médico que le atienda, el/la administrador(a) de reclamos y el empleador, con respecto a las clases de trabajo que Ud. puede hacer mientras se recupera. Es posible que ellos coordinen esfuerzos para regresarle a un trabajo modificado, o a otro trabajo, que sea apropiado desde el punto de vista médico. Este trabajo modificado, u otro trabajo, podría extenderse o no temporalmente, dependiendo de la índole de su lesión o enfermedad.

Pago por Incapacidad Permanente: Si el doctor dice que su lesión o enfermedad resulta en una incapacidad permanente, es posible que Ud. reciba pagos adicionales. La cantidad dependerá de la clase de lesión, su edad, su ocupación y la fecha de la lesión.

Rehabilitación Vocacional: Si el doctor dice que su lesión o enfermedad no le permite regresar a la misma clase de trabajo, y su empleador no le ofrece trabajo modificado o alterno, es posible que usted reúna los requisitos para rehabilitación vocacional. Si Ud. reúne los requisitos, su administrador(a) de reclamos pagará los costos, hasta un máximo establecido por las leyes estatales. Este es un beneficio para lesiones que ocurrieron antes de 2004.

Beneficio Suplementario por Desplazamiento de Trabajo: Si Ud. no vuelve al trabajo en un plazo de 60 días después que los pagos por incapcidad temporal terminan, y su empleador no ofrece un trabajo modificado o alterno, es posible que usted reúne los requisitos para recibir un vale no-transferible pagadero a una escuela para recibir un nuevo entrenamiento y/o mejorar su habilidad. Si Ud. reúne los requisitios, el administrador(a) de reclamos pagará los costos hasta un máximo establecido por las leyes estatales basado en su porcentaje del incapicidad permanente. Este es un beneficio para lesiones que ocurren en o después de 1/1/04.

<u>Beneficios nor Muerte</u>: Si la lesión o enfermedad causa la muerte, es posible que los pagos se hagan a los parientes o a las personas que vivan en el hogar, que dependían económicamente del/de la trabajador(a) difunto(a).

Es ilegal que su empleador le castigue o despida, por sufrir una lesión o enfermedad en el trabajo, por presentar un reclamo o por atestiguar en el caso de compensación para trabajadores de otra persona. (Bl Codigo Laboral sección 132a). Si es probado, puede ser que usted reciba pagos por perdida de sueldos, reposición del trabajo, aumento de beneficios, y gastos hasta un límite establecido por el estado.

Ud. tiene derecho a estar en desacuerdo con las decisiones que afecten su reclamo. Si Ud. tiene un desacuerdo, primero comuníquese con su administrador(a) de reclamos, para ver si usted puede resolverlo. Si usted no está recibiendo beneficios, es posible que Ud. pueda obtener beneficios de Seguro Estatal de Incapacidad (SDI). Llame al Departamento Estatal del Desarrollo del Empleo (EDD) al (800) 480-3287.

Ud. puede obtener información gratis, de un oficial de información y asistencia, de la División estatal de Compensación al Trabajador (Division of Workers' Compensation – DWC), o puede escuchar información grabada, así como una lista de oficinas locales, llamando al (800) 736-7401. Ud. también puede ir al sitio electrónico en el Internet de la DWC en www.dir.ca.gov. Enlácese a la sección de Compensación para Trabajadores.

<u>Ud. puede consultar con un(a) abogado(a).</u> La mayoría de los abogados ofrecen una consulta gratis. Si Ud. decide contratar a un(a) abogado(a), sus honorarios se tomarán de sus beneficios. Para obtener nombres de abogados de compensación para trabajadores, llame a la Asociación Estatal de Abogados de California (State Bar) al (415) 538-2120, ó vaya a su sitio electrónico en el Internet en <u>www.californiaspecialist.org</u>.

INJURED WORKER STATEMENT

Date:	Project Name:		
Name:		Date of Birth:	
Address:	City,	State, Zip	
Phone:	Phor	ne 2:	
Date of Incident:	Time of Incide	nt:	□ AM □ PM
What happened? (Explain	in Detail)		
List names of co-workers t		:	
To what part of the body w (Please print in this space a		gram)	
Employee Signature:			
WEDCOD/OD AVACHI IOINT	VENTUDE 50	Will Sim	لها لها

EMPLOYEE WITNESS STATEMENT

Date: Project Name:		
Name of witness	Company:	
Address:	City, State, Zip	
Phone:	Phone 2:	
Date of Incident:	Time of Incident:	□ AM □ PM
Name of injured worker:		
What happened? (Explain in I	Detail)	
I believe the preceding stateme	ent to be true to the best of my knowledge.	
Witness Signature:		

SUPERVISOR STATEMENT

Pate: Project Name:		
Name of supervisor	Company:	
Address:	City, State, Zip	
Phone:	Phone 2:	
Date of Incident:	Time of Incident:	□ AM □ PM
Name of injured worker:		
What happened? (Explain in	Detail)	
I believe the preceding staten	nent to be true to the best of my knowledge	e.
Supervisor Signature:		

RETURN TO WORK PROGRAM

Modified work is defined as the temporary period of time when the employee first comes back to work with restrictions or job modifications, until the time when they are fully functional in their job or the Company determines that it cannot reasonably accommodate the work restrictions.

Webcor/Obayashi Joint Venture will attempt to provide modified work that allows our injured employees an opportunity to return to work on a modified work status whenever possible. This modified work process will focus on your abilities and we will attempt to make the necessary accommodations for your work restrictions.

When an employee reports an injury, they will be given certain forms and may be taken to a doctor for treatment and/or an examination. If the doctor determines that the employee qualifies for our Return to Work Program, the doctor will complete a work status report with the recommended restrictions for modified duty. Webcor/Obayashi Joint Venture will then review the work status report and to the extent possible provide modified work until the employee is able to return to full duty. Modified work may be offered at any project and/or any shift.

You must inform your doctor that there is modified work available to you, regardless of your work restrictions. You must also report to work immediately if possible, or by the next working day to inform your supervisor in any changes to your work restrictions. You must give your supervisor your written work status from the doctors listing all work restrictions. You may not return to work without release from your doctor.

This letter serves as notice to you that modified work is available to you. Failure to return to the position that is available may affect your employment with Webcor/Obayashi Joint Venture.

Webcor/Obayashi Joint Venture feels it is important to create an environment that allows injured employees an opportunity to recover to their maximum potential and, whenever possible, continue to contribute to the success of our organization.

contribute to the success of our organization.		
☐ I have read and fully understand the above p Work Program. Signing this form states that I will accept modif		/enture Return-To-
Employee Name (Printed)	Employee Signature	//
Employee Name (Finica)	Employee Signature	Bute

RETURN TO WORK AGREEMENT

Webcor/Obayashi Joint Venture has modified work available that allows our injured employees an opportunity to return to work on a modified work status whenever possible. This modified work process will focus on your abilities and we will attempt to make the necessary accommodations for your work restrictions.
Information received from Drindicates that although you are not able to perform all of your customary job duties, you may perform other modified duties as of// that are within the following restrictions/capabilities:
We request that you report on:
Date: Report to: Time: Days Per Week: Address: Hours Per Day: Phone:
* Wages will not be affected by this agreement.
Modified work is defined as the temporary period of time when the employee first comes back to work with restrictions or job modifications, until the time when they are fully functional in their job or the Company determines that it cannot reasonably accommodate the work restrictions.
This letter serves as notice that modified work is available to you. Failure to return to the position that is available may affect your workers' compensation benefits and may be grounds for termination.
Webcor/Obayashi Joint Venture feels it is important to create an environment that allows injured employees an opportunity to recover to their maximum potential and continue to contribute to the success of our organization.
I agree to the restrictions given to me by the doctor and will report For modified duty on/
□ I declined this modified work position.
Employee Signature Date
If you have any questions or concerns, please contact Danielle DiRicco at 510-476-2578 or 650-520-4251.

MODIFIED DUTY OFFER LETTER

3/20/2008

Jane Doe 1234 Happy Lane San Francisco, CA 94105

Re: Bona Fide Offer for Modified Duty

Dear Jane Doe:

Webcor/Obayashi Joint Venture has offered you modified duty to accommodate the restrictions given by your doctor. Our records show that you have not shown up to work or called your Supervisor in 3 days, we would like to offer you once again modified duty to help you transition back to your full capacity.

We believe this assignment is within your capabilities as described by your doctor. You will only be assigned tasks consistent with your physical abilities, skills and knowledge. If any training is required to do this assignment, it will be provided.

Job title:		
Description of physical requirements of this position		
Address:		
Work Hours: From: () To: ()	
(Wages will not be affected)		
Job:	Supervisor	

- -Attached is a copy of the letter you signed at the doctor's appointment when you were put on modified duty, stating you agreed to accept modified/light duty.
- -Attached is a copy of the doctor's status report with your restrictions.

This job offer will remain open for 48 hours from your receipt of this letter. If we do not hear from you within 48 hours, we will assume that you have refused this offer and this may be grounds for termination.

We look forward to your return. If you have any questions, please do not hesitate to contact me at: 510-476-2578 or 650-520-4251 or email me at **ddiricco@webcor.com**

Sincerely,

DO NOT USE.

Danielle DiRicco Safety Project Assistant FOR USE BY SAFETY SPECIALIST ONLY.

WEBCOR/OBAYASHI JOINT VENTURE Site Specific Safety Program Rev 6, 8/22/2012

ELEVATED WORK

Policy & Scope

All contractors have the duty to provide fall protection for all workers potentially exposed to a fall situation. <u>Safety harness is the only acceptable means of personal fall arrest system permitted on this site</u>, the use of safety body belts is not acceptable and violates federal OSHA standard 1926.502 (d).

Pre-Task Planning/Job Hazard Analysis

Work activities that expose worker(s) to fall hazards of 6 feet or more, work on/around scaffolding, as well as overhead work requiring the worker to be 6 feet or more above the work platform are activities defined by Webcor/Obayashi Joint Venture to be High Hazard and therefore require detailed, written pretask planning.

Duty to have Fall Protection

All workers must be protected from the hazard of falls whenever work is being completed at heights of six feet (6') or greater measured from the work platform to the bottom of the sole of the foot. The six-foot rule, at minimum, applies to the following conditions:

- Ladders
- Walking and working surfaces
- Unprotected sides and edges
- Hoist areas
- Holes
- Formwork and reinforcing steel
- Ramps, runways, and other walkways
- Excavation and trenching
- Dangerous or large pieces of equipment
- Overhand bricklaying and related work
- Precast concrete erection
- Wall openings
- Floor openings
- Leading edge
- Scaffolding erection/dismantle
- Any additional circumstance that may be deemed necessary by Webcor/Obayashi Joint Venture.

Fall Protection Systems

Anytime a potential fall hazard of 6 feet or more exists, a suitable fall protection system must be provided to protect the worker. Examples of suitable systems include the following:

- Guardrail Systems
- Warning Line Systems
- Safety Net Systems
- Positioning Device Systems
- Personal Fall Arrest Systems

Falling Object Protection Systems

Anytime a potential hazard of falling objects exists, suitable systems must be provided to protect workers. Examples of suitable fall object protection systems include the following:

- Covers
- Toe boards
- Canopies
- Debris Nets

Safety Monitoring Systems

Webcor/Obayashi Joint Venture does not recognize the use of safety monitors as an effective means of ensuring the safety of persons at elevated heights; hence, the use of a safety monitor is only allowed when all other means have been demonstrated to be infeasible. A member of Webcor/Obayashi Joint Venture Project Management, competent in fall protection, will make the final determination, and then only after a written fall protection plan limited to the actual work to be performed is approved by Webcor/Obayashi Joint Venture.

Personal Fall Arrest Systems

Personal fall arrest systems are designed to control the fall of a worker and minimize the injury once a worker has fallen. Personal fall arrest systems consist of the following components:

- Full body harness (body wear)
- Shock absorbing lanyard or retractable (connecting device)
- Tie off point (anchorage)
- Training

Specific Requirements

- Safety harness is the only acceptable means of personal fall arrest system permitted on any Webcor/Obayashi Joint Venture project; the use of body belts is not acceptable for fall protection (including positioning systems).
- Retractable lanyards are the most preferred fall protection systems for this project.
- Each subcontractor and tiered subcontractor is responsible for providing and requiring the use of safety harnesses, lifelines and lanyards when workers are exposed to a fall of 6 feet or greater.
- All subcontractors must provide safety harness at their cost when fall protection is required.
- All lanyards must be equipped with locking snap hooks.
- Appropriate shock absorbing lanyards will be used for fall protection when they do not create a greater hazard due to the length of the potential fall.
- Shock absorbing lanyards are not to be used in combination with a retractable lanyard.
- Any safety harness, lifeline or lanyard actually subjected to in-service loading MUST be immediately removed from service and should not be used again for worker safeguarding.
- Fall arrest equipment should be removed from service when evidence of wear is detected.
- Retractable lifelines are preferred where direct anchorage is not available.
- All safety harnesses, lifelines and lanyards must have a nominal breaking strength of 5,000 lbs (5,400 lbs in CA).

- The anchorage (tie off point) must be capable of withstanding a minimum 5,000 lbs (5,400 lbs in CA) tensile strength per worker attached.
- Anchorage used for attachment of personal fall arrest equipment should be secured above the point of operation whenever possible
- Anchorage, tie off, must generally be above the worker's head.
- Anchorage must be high enough that the worker will not strike any lower level surface or object should a fall occur.
- All fall protection equipment shall be inspected daily/monthly and before each use, with documentation made available upon request that it is in proper working order.

Rescue Plans

Specific plans for rescue of workers should be developed and rehearsed prior to initiating work requiring the use of fall protection. Rescue plans and the basic work plan should be submitted to the Webcor/Obayashi Joint Venture Project Management for review and comment. Concerns expressed by Webcor/Obayashi Joint Venture Project Management or any other reviewing authority shall be addressed fully prior to exposing any worker to the elevated work area.

Floor & Wall Openings and Guard Rail Systems

To control conditions where there is a danger of workers or materials falling through floor, roof, perimeter edges or wall openings, such openings should be covered/protected and marked with a warning sign (i.e., DANGER HOLE, DO NOT REMOVE).

All protection systems are to be maintained at all times. Any violation that is not rectified immediately will result in removal of the responsible supervisor. Further violations will result in termination for cause of the responsible subcontractor's contract.

Floor Openings

Floor opening covers should be capable of supporting the maximum intended floor load and installed so as to prevent accidental displacement. Covers should be distinctively marked and anchored. For purposes of covering, a floor opening is defined as any opening from 2" up to 16 square feet. All others must be protected with top and intermediate rail and toe board.

Rail Systems

- Standard Railing: A standard railing should consist of a top rail, intermediate/mid-rail, toe board and posts:
 - The top rail should be approximately 42 inches from the upper surface of the rail to the floor, platform, or ramp level. The top rail should have a smooth surface throughout its length and be made of at least 2-inch by 4-inch stock, 3/8-inch double clamped wire rope or its equivalent. It should be secured to withstand a 200-pound, horizontal force with minimum deflection.
 - The midrail should be halfway between the top rail and the floor, runway, platform, or ramp. The ends of the rail should not overhang the terminal posts except when it does not constitute a projection hazard. The midrail sill should be made of at least 1-inch by 6-inch stock or its equivalent.

- The toe board should have a 4-inch minimum height and should be securely fastened in place with no more than 1/4 inch clearance above the floor level.
- Wooden railing posts (verticals) should be made of at least 2-inch by 4-inch stock or its equivalent, and be spaced so as not to exceed 8 feet on center.
- Other Railings: Other types, sizes and arrangements of railing construction are acceptable, provided they meet the following requirements:
 - A smooth surfaced top rail approximately 42 inches above the floor.
 - Strength to withstand the minimum of 200 pound top rail pressure with a minimum of deflection.
 - For specific material requirements, refer to applicable regulations.

Guard Rail Openings

- Work that requires the opening of guardrails or the removal of hole covers shall be approved in advance by the Webcor/Obayashi Joint Venture Project Management.
- Particular attention shall be given to the alternate means of fall protection required to safely perform the work and protect other workers in the vicinity of the fall exposure.
- Those who remove the rail, are responsible for replacing it in a manner meeting or exceeding local, state, federal, or Webcor/Obayashi Joint Venture practices, whichever may be more stringent.

Safety Nets

Safety nets will comply with CFR 1926.502 requirements. The use of safety nets may be allowed only after a written fall protection plan limited to the actual work to be performed is reviewed and approved by Webcor/Obayashi Joint Venture. Below are guidelines for Safety Nets:

- Safety nets should be provided by the subcontractor or tiered subcontractor when work places are
 more than 25 feet above the ground or other surfaces where the use of ladders, scaffolds, catch
 platforms, temporary floors, safety lines or safety harnesses are impractical. When safety net
 protection is required, operations should not be undertaken until the net is in place and has been
 thoroughly tested.
- Safety nets should extend 8 feet beyond the edge of the work surfaces where workers are exposed and should be installed as close under the work surface as practical. In no case should the safety net be more than 25 feet below the work surface. Nets should be hung with sufficient clearance to prevent the user's contact with surfaces or structures below. Clearances should be determined by impact load testing.
- The mesh size of the nets should not exceed 6 inches by 6 inches. All nets should meet accepted standards of 17,500 foot pounds minimum impact resistance, as determined and certified by the manufacturer, and should bear a label of proof test. Edge ropes should have a minimum breaking strength of 5,000 pounds. Forged steel safety hooks or shackles should be used to fasten the net to its supports. Connections between net panels should develop the full strength of the net.

Fall Protection Training

Subcontractors and all tier subcontractors must provide as a minimum, by a competent person, the following training. Documentation of training must be forwarded to Webcor/Obayashi Joint Venture upon request. Training must include, at a minimum:

• The nature of the fall hazards in the work area.

- The correct procedure for erecting, maintaining, disassembling and inspecting the fall protection systems to be used (the installation of personal fall protection systems cannot in themselves create a fall hazard exposure to the worker installing the system).
- The use and operations of guardrail systems, personal fall arrest systems, safety net systems, warning line systems, safety monitoring systems (refer to section 2.3 of this Appendix), controlled access zones and any other methods of protection to be used.
- The role of each worker in the safety monitoring system (refer to section 2.3 of this appendix) when this system is approved for use.
- The limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs.
- The correct procedures for the handling and storage of equipment and materials and the erection of overhead protection.
- The role of workers in fall protection plans.

Aerial Lifts

- Lifts should be inspected each day prior to use to verify they are in safe working condition. (Refer to Scissor/Boom Lift Inspection form at the end of this Appendix or use manufacturer's inspection guidelines.)
- Only authorized persons should operate an aerial lift, and must be trained on the equipment they will be operating.
- Always stand on the floor of the basket, do not sit or climb on the edge of the basket or use planks, ladders, or other devices for a work position.
- A body harness should be worn and a shock absorbing lanyard attached to the boom or basket when working from an aerial lift. Tying off to an adjacent pole, structure or equipment is not permitted.
- Boom and basket load limits specified by the manufacture should not be exceeded.
- The brakes should be locked and when outriggers are used, they should be positioned on pads or a solid surface. Wheel chocks must be used before using an aerial lift on an incline provided they can be safely installed.
- An aerial lift truck should not be moved when the boom is elevated with personnel in the basket.
- Aerial lifts should have both platform (upper) and lower controls. Upper controls should be in or
 beside the platform within easy reach of the operator. Lower controls should provide for overriding
 the upper controls. Controls should be plainly marked as to their function. Lower level controls should
 not be operated unless permission has been obtained from the employee in the lift, except in case of
 emergency.
- Lifts must be thoroughly inspected to determine if they require two hands or a hand and a foot to operate. Any lift that does not meet these conditions must immediately be removed from service and either returned, replaced, or modified to meet this requirement.
- A spotter may be needed when there is a potential for operator injury due to physical contact with facility systems or structures or in congested areas. Spotters may also be needed when there is a potential for damage to sensitive facility systems or structures.

Scissor Lifts

• Lifts should be inspected each day prior to use to determine that they are in safe working condition (refer to Scissor/Boom Lift Inspection form at the end of this Appendix or use manufacturer's inspection guidelines).

- Only authorized persons should operate a scissor lift, and must be trained on the equipment they will be operating.
- Lifts should be operated in accordance with manufacturer's recommendations.
- Lifts must be thoroughly inspected to determine if they require two hands or a hand and a foot to operate. Any lift that does not meet these conditions must immediately be removed from service and either returned, replaced, or modified to meet this requirement. If the requirement cannot be met for a two-hand controlled scissor lift, and a lift is unavailable to meet this requirement, a spotter will be needed for all equipment movement (other than incidental movement where there is no potential for operator injury due to physical contact with facility systems or structures).

Note: A spotter may be needed when there is a potential for operator injury due to physical contact with facility systems or structures and in congested areas. Spotters may also be needed when there is a potential for damage to sensitive facility systems or structures.

RESPIRATORY PROTECTION PROGRAM

Purpose

The purpose of this plan is to establish a program and procedures for wearing respiratory protection at **WEBCOR/OBAYASHI JOINT VENTURE.**

This program supports compliance with the Occupational Safety and Health Administration Respiratory Protection Standard as found in 29 CFR 1910.134. This program applies to all company employees who work in areas whose exposures to airborne contaminants require the use of respirators.

Definitions

Dusts: Particles released during work operations such as grinding and sawing.

Fit Testing: The process of making sure that an employee's respirator fits property and will provide the necessary protection without any leaks.

Fumes: Vaporized, condensed metals such as lead that may be present during welding operations.

Gases: Examples include nitrogen, methane, and carbon monoxide.

IDLH: An OSHA hazard classification—"Immediately Dangerous To Life & Health." An atmospheric condition that poses an immediate hazard to life or poses immediate irreversible debilitating effects on health.

Mists: Particles of liquid released during operations such as spray painting.

NIOSH: National Institute for Occupational Safety and Health; an agency that establishes minimum performance standards for respirators and tests and approves respirators for various uses.

Vapors: Gaseous forms of a liquid such as paint solvents.

Responsibilities

The Program Administrator

Responsible for:

- Issuing and administering this program and making sure that the program satisfies the requirements of all applicable federal, state, or local respiratory protection requirements.
- Providing initial and periodic training to employees on respiratory protection requirements.
- Conducting hazard assessments where respiratory hazards may be present.
- Assisting managers and supervisors in the selection of appropriate respiratory protection for use on their jobsites.
- Auditing the respiratory protection program to ensure its continued effectiveness.

The Purchasing Agent will be the Jobsite Superintendent.

Responsible for:

- purchasing respiratory protection equipment.
- Assuring that all equipment purchased is approved by NIOSH/MSHA.

Superintendents Whose Jobsites Are Required To Wear Respiratory Equipment.

Responsible for:

- Knowing the hazards in their areas that require respiratory protection.
- Knowing the types of respirators that need to be used.
- Enforcing the wearing of respiratory protection in the areas where it is required.
- Making sure employees are knowledgeable about the respiratory requirements for the areas in which they work.
- Providing training on hazardous chemicals to employees.

Employees Who Are Required To Wear Respiratory Protection.

Responsible for:

- Wearing appropriate respiratory protection.
- Properly maintaining their respiratory protection equipment and keeping it in a clean and operable condition.

Program Activities

General

- Respiratory hazards will be assessed on the jobsite and appropriate protection will be provided for all affected employees.
- Employees are required to wear respiratory protection wherever respiratory hazards exist.
- Respiratory protection is stored and issued from the jobsite office.
- Efforts will be made to minimize the use of hazardous chemicals in the workplace.
- If the use of hazardous chemicals creates an imminent-danger situation, the operation will be discontinued.

Selection and Use of Respirators

- Respirators will be selected according to the type of activity for which they will be used and the type of potential air contaminants associated with these activities.
- Only NIOSH/MSHA approved respirators will be used.
- All respirator protection equipment will be used in accordance with the manufacturer's recommendations.
- In areas in which maintenance and sanitation services are unavailable or respiratory usage is limited, disposable respirators will be used.
- Non disposable respirators which are used exclusively by one person will be maintained and cared for by the wearer.
- All non disposable respirators which are used by more than one person will be cleaned and sanitized between each use.
- Jobsite Superintendents will be responsible for re-issuing of respirators.
- Chemical cartridge respirators will be stored in airtight, labeled containers between each use. All other respirators will be stored in a clean and sanitary manner and labeled with the wearer's name.

• Disposable respirators will be used until the cartridge or filter media requires replacement or when the face piece is dirty.

Respirator Inspection and Maintenance

- Respirators will be inspected by the wearer prior to each use.
- Supervisors on jobsites where respirators are used will verify that appropriate respirator protection is being used, inspected, and maintained properly.
- Non disposable respirators will be inspected according to the manufacturer's instructions.

Fit Testing

- All users of respirators will be fit tested to ensure a proper face piece-to-face seal.
- Employees whose facial hair interferes with the face piece-to-face seal will not be allowed to wear negative-pressure air-purifying respirators.

Training

- All employees who are required to wear respirators will receive training in their use, selection and appropriate maintenance.
- Training will provide an opportunity for the employee to handle the respirator, have it fitted property, test the face piece-to-face seal, wear it in normal air, and wear it in a test atmosphere.

Wearing Respirators In Emergency Situations

- Respiratory protection designated for emergency use will be inspected monthly.
- All employees who are expected to use emergency equipment will be trained in its use.

SILICA EXPOSURE PROGRAM

Purpose

The purpose of this policy is to establish procedures to protect employees from the health hazards associated with exposure to airborne crystalline silica generated by various construction activities. Due to the amount of work we do with concrete and masonry on almost any project; our workers have the potential for silica exposures through abrasive blasting, chipping, hammering, sawing, grinding or demolition of concrete.

Silicosis is a lung disease marked by hardening of lung tissue and symptoms such as shortness of breath, possible fever, fatigue and eventual respiratory failure. Silicosis also renders a person more susceptible to disease of the lungs, such as tuberculosis. Where there is concrete, there is a potential silica exposure so it is essential to monitor our work activities and take the necessary corrective actions to protect our employees.

Responsibilities

Project Supervision shall:

- Evaluate all work activities for silica exposures
- Institute engineering controls as a first line of protection to reduce silica exposures

- Institute all administrative/work practice controls to reduce silica exposures when feasible and when engineering controls have been explored and ruled out.
- Institute the use of respirators to reduce exposures when the above mentioned controls fail to reduce silica exposure levels
- Provide training identified in this policy when employees are exposed to silica hazards
- Provide necessary respirator protection as well as training in its proper use, when deemed necessary.

Craftsmen shall:

- Follow all work plans that identify engineering and administrative work practice controls to reduce their exposure to crystalline silica
- Wear respiratory protection to reduce their exposure to crystalline silica when deemed necessary by their supervisor
- Not eat, drink, use tobacco products or apply cosmetics in areas where there is dust containing crystalline silica

Procedure

Exposure Assessment

- Work tasks that must be monitored for crystalline silica exposure include by are not limited to:
 - Jack hammering and chipping
 - Grinding concrete
 - Tunneling
 - Sandblasting
 - Dry sweeping or blowing concrete debris, sand or rock dust
 - Demolition of concrete/masonry structures
 - Crushing, loading, dumping rock or concrete
 - Saw cutting concrete or rock
 - Crystalline silica exposures must be maintained below the OSHA PEL of

10 mg/m3

(Percentage Quartz) +2

- Historical data from similar operations producing silica exposure can be used as exposure monitoring when feasible
- Assessment of worker exposure to reparable crystalline silica dust during various tasks associated with concrete finishing and demolition activities is performed annually by an Industrial Hygienist. Specific job tasks monitored include:
 - Grinding and Patching
 - Chipping
 - Demolition
 - Segregation, stockpile, and loading of concrete rubble

Engineering Controls

- When it has been determined that employees will be exposed to crystalline silica in excess of the PEL, engineering controls will be used as a first line of defense.
- Engineering controls include, but are not limited to:

- Use of dust collection systems which are available for many dust generating tools and equipment
- Wetting down the grinding or cutting surface to reduce dust emissions
- During saw cutting, use equipment that provides water to the blade
- During rock drilling, use water through the drill stem to reduce the amount of dust in the air
- During abrasive blasting use abrasives with a low silica or no silica content
- Use local exhaust ventilation to prevent dust from being released into the air
- In the event engineering controls fail to reduce worker silica exposure below the PEL administrative controls will be the next line of defense.

Administrative/Work Practice Controls

- When engineering controls cannot be utilized or are not effective to sufficiently reduce exposure to the inhalation of silica, administrative controls will be used when feasible to reduce the time of exposure for the employees
- Where work crews are of sufficient size, the pool of workers skilled in the operation of applicable tools, and job duration is sufficient to accommodate worker rotation, develop a program to reduce the exposure time of individual workers to silica.

Respirator Protection

- When engineering and administrative/work practice controls cannot be utilized or are not effective to sufficiently reduce exposure to inhalation of silica, respirators must be used to reduce employee exposures.
- Select respirators based on the criteria identified in the respirator protection section of this manual.

Follow-up Monitoring

- After initial assessment and institution of exposure controls, follow-up air monitoring will be conducted to assess the effectiveness of the controls put in place
- In the event that the follow-up monitoring reflects that instituted controls have not yet reduced employee exposures, the operations will cease, be re-evaluated and alternative controls will be explored to reduce employee exposures to silica

Training

- Employees will be trained in the following
 - Hazards of silica exposure
 - The requirements of this program
 - Engineering and administrative/work practice controls, if any, that have been instituted to control silica exposures
 - Personal protective equipment specific to their work assignments
 - The employees right of access to exposure monitoring and medical records.

Emergency Procedures

- Call 911
- Identify the injury
- Provide necessary first aid
- Ventilate the area

- Utilize the eye wash station
- Stabilize the person, wear PPE
- Don't move injured unless absolutely necessary

- Secure scene, make sure no one else can be hurt
- Release care of injured to emergency personnel
- Get medical screening if you come into contact with blood

CONCRETE CODE OF SAFE PRACTICES

Introduction

The concrete appendix is established to assist in conforming to the requirements for all construction activities involving concrete performed on Webcor/Obayashi Joint Venture projects. This includes, but is not limited to:

- Cast in Place
- Shoring & Reshoring
- Formwork/False work
- Post Tensioning
- Placing & Finishing
- Etc.

Definitions

Bull float means a tool used to spread out and smooth concrete.

Formwork means the total system of support for freshly placed or partially cured concrete, including the mold or sheeting (form) that is in contact with the concrete as well as all supporting members including shores, reshores, hardware, braces, and related hardware.

Limited access zone means an area alongside a masonry wall, which is under construction and which is clearly demarcated to limit access by employees.

Precast concrete means concrete members (such as walls, panels, slabs, columns, and beams) which have been formed, cast, and cured prior to final placement in a structure.

Reshoring means the construction operation in which shoring equipment (also called reshores or reshoring equipment) is placed, as the original forms and shores are removed, in order to support partially cured concrete and construction loads.

Shore means a supporting member that resists a compressive force imposed by a load.

Fall Protection

Workers working more than 6 feet above any adjacent working surface or placing reinforcing steel in walls, piers, columns, etc. should be protected by personal fall arrest system, guardrail system or equivalent device. In addition to the above general guidelines, the following specific guidelines will also apply

- Unless otherwise provided by a site specific fall protection plan, the placing of frames and stringers should be from below via appropriate ladders, temporary work platforms, false decks, scaffolds, or other similar work platforms.
- Unless otherwise provided by a site specific fall protection plan, the first several joists spread should be from below via appropriate ladders, temporary work platforms, false decks, scaffolds, or other similar work platforms. Once the first several joists are positioned, a work platform (e.g. 4x6 sheet of

plywood or similar) should be placed on top of a placed joists and all further spreading of joists should take place from this work platform or successive sheets of plywood laid to extend this platform. Work should take place from the center of the bay, with joists spaced no greater than 24" on center. Any work within 6' of the leading edge and greater than 6' above a lower working surface should be protected by a suitable fall protection system.

- Workers inside a Cunningham beam for, where the form leading edge is less than 39" in height and the worker is greater than 6' above a lower working surface, should be protected by a suitable fall protection system consisting of a catenary or similar pendant type line and personal fall arrest system.
- As soon as practical, a perimeter guardrail system should be established. For more information on guardrail systems refer to the Elevated Work Appendix.
- Special attention and consideration should be given to workers on ladders within 6' of leading edge such as when working on columns or wall forms. Additional fall protection measures may be required.
- When working on vertical reinforcing steel columns or false work, fall protection should be set in advance from ladders, manually propelled elevated work platforms, or similar means so that 100% fall protection can be utilized.
- Workers on wall forms greater than six (6) feet above any adjacent working surface should be protected from falling by a personal fall arrest system or equivalent system. Ensure appropriate anchorage points are provided and utilized. Where applicable, a two hook system for 100% fall protection should be utilized.
- Workers who are placing or tying reinforcing steel more than six (6) feet above any adjacent working surface should be protected from falling by personal fall arrest system or equivalent system.
- When workers are exposed to falls greater than six (6) feet above any adjacent working surface while erecting or dismantling shoring systems, they should have suitable fall protection as necessary utilize an appropriate anchorage point
- In addition to the above fall protection requirements, when erecting and dismantling shoring, a minimum of two scaffold grade planks should be used or other similar means, such as mobile scaffolding, lifts, etc. Planks should rest on horizontal frame members and not on cross bracing.
- The use of positioning systems as a sole means of fall protection is not permissible.

For additional information on fall protection requirements, refer to the Elevated Work Appendix.

Formwork/False work

General Guidelines

Formwork, false work and shoring should be designed, fabricated, erected, supported, braced and
maintained so that it will be capable of supporting without failure all vertical and lateral loads that
may reasonably by anticipated to be applied to the formwork. Formwork which is designed,
fabricated, erected, supported, braced and maintained in conformance with ANSI A10.9-1983
Construction and Demolition Operations – concrete and masonry work, will be deemed to meet the
requirements of this paragraph.

- Drawings or plans, including all revisions, for the jack layout, formwork (including shoring equipemt0, working decks, and scaffolds, should be available at the jobsite.
- Procedures for safe installation, removal, lifting etc., should be available at the jobsite and all workers appropriately trained in these procedures as applicable.
- Work areas should be clear of all unauthorized personnel during installation, concrete placement and removal. Appropriate barricading, delineation and/or signage should be placed to limit access and alert other workers of hazards associated with the work area.
- At no time should workers place themselves underneath a live load.
- When hoisting material, the worker should be positioned to the side of the hoisted material and never into the pinch point between the hoisting equipment and the material or in the area where an operator would land material in the event of an emergency.
- Appropriate tag lines should be utilized as required and two tag lines may be necessary to help align/control panels or forms.
- Safe means of access and egress should be maintained at all times.

Removal

- Forms and shores (except those used for slabs on grade and slip forms) should not be remove until the employer determines that the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination should be based on compliance with one of the following:
 - The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
 - The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and the test results indicate that the concrete has gained sufficient strength to support its weight and superimposed loads.
- Prior to dismantling, the entire system should be inspected to determine if there are any hazards from displacement, weakening, alterations etc. of the shoring and false work.
- Shores, cross braces etc. should only be removed in the immediate work areas and as appropriate.
- All nails should be removed or bent over immediately upon stripping.
- Shoring, formwork and all other equipment being removed should be stacked, consolidated or placed in an orderly manner as soon as practicable during the removal operation and egress/access paths maintained at all times.
- Only appropriate tools should be used for removal of shoring and formwork. i.e. pry bars, cats paws, tec. versus the claw end of hammers, screwdrivers etc.

Shoring and Reshoring

General Guidelines

- All shoring and reshoring operations should comply with all federal, state local and manufactures regulations.
- All shoring equipment (including equipment used in reshoring operations) should be inspected prior to erection to determine that the equipment meets the requirements specified in the formwork drawings.

- Shoring equipment found to be damaged, severely rusted, missing locking devices etc. should not be used for shoring. Shoring equipment that is in place and is found to be damaged or weakened, should be immediately reinforced.
- Erected shoring equipment should be inspected immediately prior to, during and immediately after concrete placement.
- The sills for shoring should be sound, rigid and capable of carrying the maximum intended load.
- Base plates should be attached to a minimum of 12' square, 2" plywood or equivalent.
- All base plates, shore heads, extension devices, and adjustment screws should be in firm contact, and secured when necessary, with the foundation and the form.
- Existing ground should be level, adequately compacted and loads distributed. Consideration should be given to adverse weather conditions such as washouts, rain impact to slopes etc. Special precautions such as hardwood wedges or bracing should be utilized on sloped surfaces.
- All clamps, screws, pins and other similar components should be in a closed or engaged position.
- Eccentric loads on shore heads and similar members are prohibited unless these members have been
 designed for such loading. Ensure stringers are centered on these members to minimize eccentric
 loading.
- Adequate access should be provided to all form deck surfaces. If access ladders are required these should be secured and extend at least 36" above the form deck surface.
- When horizontal shoring is required, these should be engineered and special consideration should be given to installation and conformance to the completed design.
- Ensure all stringers and joists are fully supported and centered over shoring heads/top plates and adequately secured. Further, ensure that all stringers and joists are fully upright and not rolled.
- All horizontal shoring should be installed and erected in compliance with manufacture's requirements as well as federal, state and local regulations.

Frame Shoring

- The design of the shoring should be prepared by a qualified designer and the erected shoring should be inspected by an engineer qualified in structural design.
- The shoring design or layout drawing should be followed with no omissions of required components, or alteration in frame spacing's, types used, towers heights, locations or sizes.
- Shoring loads should be carried on all legs.
- All shoring fames should be plumb and level. This should be checked and corrected at a minimum of during erection and just prior to the pour. Adjustment of shoring frames should not be made once the pour begins.
- When shoring height exceeds a minimum of four (4) times the minimum base width, additional bracing and securing of the frames should be performed.
- Cross braces should never be climbed and workers should climb frames from the inside.

Screw Jacks

• Screw jacks should not exceed the manufactures recommended extension height at any time.

- Screw jack extension should be kept to a minimum for maximum load carrying capacity.
- All screw jacks should be in firm contact with the foundation and frame legs.

Post Shoring

- The single post shores should be vertically aligned/plumbed. This should be checked and corrected at a minimum of during erection and just prior to the pour.
- Adjustment of post shores for any reason, including but not limited to raising formwork, should not be made once the pour begins.
- Refer to the manufacture's guidelines for additional stability measures and bracing requirements of each system used.
- Post shores should be adequately secured at top and bottom to prevent displacement.
- Whenever single post shores are used one on top of the other (tiered), they should comply with the following specific guidelines in addition to the general guidelines for formwork:
 - The single post shores should be spliced to prevent misalignment.
 - The single post shores should be adequately braced in two mutually perpendicular directions at the splice level.
 - Each tier should also be diagonally braced in the same two directions.

Ellis Shores

- Ensure shores are erected with the proper length of timbers allowing a minimum of 24" overlap between shore members.
- The shore clamps should be attached 12" apart with the upper clam at a minimum of 2" form the top of the lower shore. Each clamp should be secured with the appropriate number of type of duplex nails.
- Shores should be raised to the desired height by sliding the upper shore member upwards being careful to avoid pinch points.
- Shore hand jacks should not be used to raise decks, lift formwork or elevate concrete.
- Ensure all shores, jacks and clamps are inspected prior to use and any damaged or defective materials are removed or repaired prior to use.
- Safety nails should be secured above each clamp of the upper shore member casting to prevent uplift or movement during vibration.

Reshoring

- Shores should not be removed, including cross bracing, until the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination shall be based on compliance with one of the following:
 - The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
 - The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and test results indicate that the concrete has gained sufficient strength to support its weight and superimposed loads.

- Stripping and removal of shoring equipment should be performed in conformance to the approved stripping sequencing plan.
- Reshoring should be erected, as the original forms and shores are removed, whenever the concrete is required to support loads in excess of its capacity.
- The design of the shoring should be prepared by a qualified designer and the erected shoring should be inspected by an engineer qualified in structural design.
- The shoring design or layout drawing should be followed with no omissions of required components, or alterations in spacing's, types used, heights, locations or sizes.
- Reshoring should not be removed until the concrete being supported has attained adequate strength to support its weight and all loads in place upon it.
- Reshores should be placed directly below load carrying legs to avoid punch through, stress reversals or other undesirable forces on the poured concrete.
- Slabs or beams should be allowed to take their permanent deflection before final adjustment of reshoring equipment is made.
- Horizontal shoring should never be used as part of a reshoring system.

Bracket Scaffolds

- Bracket scaffolds should only be used when through bolted walls, with at least 5/8" diameter bolts.
- Scaffolds should be solidly secured to the walls or the supporting structure.
- Scaffolds should be able to support at least 4 times the maximum intended working load.
- Spacing of brackets should not be greater than 10' apart.
- Railings should be installed on all scaffolds 6' or greater in height.
- Platforms should consist of at least two 2"x10" planks that extend at least 6" over each bracket and no more than 18".
- Platforms should be solidly planked with no more than 7" gap under the back rail and 14" gap to the face of the form.
- Planking should be scaffold grade lumber or equivalent and should be free from damage, defects, cracks, splits etc. Damaged planks should not be used.

Reinforcing Steel

- All protruding reinforcing steel, onto and into which employees could fall, should be guarded to eliminate the hazard of impalement. When working at grade, impalement hazards from 4" to 6' in height, at a minimum, should be protected.
- Reinforcing steel for walls, piers, columns, and similar vertical structures should be adequately supported to prevent overturning and to prevent collapse.
- Employers should take measures to prevent unrolled wire mesh form recoiling. Such measures may include by are not limited to securing each end of the roll or turning over the roll.

Reinforcing steel should be stockpiled as close as practicable to work areas. Additionally special
attention should be taken towards access and egress to work areas, excavations and ensuring work
areas are free from tripping hazards or other surface encumbrances.

Concrete Placement and Finishing

General

- Appropriate PPE should be utilized during concrete placement. This includes but is not limited to; safety glasses, fall protection, gloves, boots, hardhat, and long sleeves. Refer to the Personal Protective Equipment appendix for more information.
- Appropriate respiratory protection should be used for all concrete cutting, grinding, sanding, and blasting, scabbling, dry mixing, jack hammering etc. operations or any other operation involving respiratory hazards. Refer to the Respirator Protection Appendix for more information.
- When discharging concrete on a slope, the wheels of ready-mix trucks should be blocked, the brakes set to prevent movement and the operator with the vehicle at all times.
- All washout activities should be completed in the designated washout area.
- All concrete cutting, finishing and cleanup should be done in such a manner that all residue or waste water will be properly contained and disposed of.
- Appropriate precautions should be taken for specialty applications (e.g. acid washing, dyes, stains etc.); in their handling, storage use and disposal.
- Powered and rotating type concrete troweling machines that are manually guided should be equipped with a control switch that will automatically shut off the power whenever the hands of the operator are removed from the equipment handles.
- Bull float handles used where they might contact energized electrical conductors, should be
 constructed of nonconductive material or insulated with nonconductive sheath that's electrical and
 mechanical characteristics provide the equivalent protection of a handle constructed of nonconductive
 material.
- Masonry saws should be guarded with a semicircular enclosure over the blade.
- When operation air guns for cleaning off decks, inside forms etc., these guns should have a maximum of 30 psi nozzle pressure and be equipped with a safety release valve.
- Air guns should have pressure valves, and extension tube and the hoses well maintained with appropriate whip checks.
- Employee operating air guns should have appropriate PPE, including but not limited to, chip protection (i.e. face shield, goggles etc.), ear plugs and respiratory protection as required.
- No employee should be permitted to perform maintenance or repair activity on equipment (such as
 compressors mixers, screens, pumps used for concrete and masonry construction activities) where the
 inadvertent operation of the equipment could occur and cause injury, unless all potentially hazardous
 energy sources have been locked out and tagged.

Concrete Buckets

• No employee shall be permitted to ride concrete buckets.

- No employee should be permitted to work under concrete buckets while buckets are being elevated or lowered into position.
- To the extent practical, elevated concrete buckets should be routed so that no employee or the fewest number of employees are exposed to the hazards associated with falling concrete or falling buckets.
- Concrete buckets equipped with hydraulic or pneumatic gates should have positive safety latches or similar safety devices installed to prevent premature or accidental dumping.
- Concrete buckets should e designed to prevent concrete from hanging up on top of the sides.

Pumpcrete Systems

- No employee should be permitted to apply a cement, sand and water mixture through a pneumatic hose unless the employee is wearing appropriate personal protective equipment.
- Concrete pumping systems using discharge pipes should be provided with pipe supports designed for 100 percent overload.
- Compressed air hoses used on concrete pumping systems should be provided with positive failsafe joint connectors to prevent separation of sections when pressurized.
- Movement of concrete hoses should be planned to limit the amount of manual positioning of hose as much as practicable. When necessary, the use of hooks, ropes or other similar devices should be utilized when handling the concrete hose.

Buggies and Wheelbarrows

- Concrete buggy handles should not extend beyond the wheels on either side of the buggy.
- Handles should be guarded or equipped with knuckle guards.
- All buggies, wheelbarrows or other similar conveyances should be properly maintained and repaired/replaced immediately if damaged, in poor repair or otherwise.
- Paths of access and travel should be level, free of debris and other surface encumbrances and ramps or other access ways should be appropriately built, maintained, and protected.
- Buggies, wheelbarrows etc. should not be overloaded.

Post-Tensioning Operations

- No employee (except those essential to the post-tensioning operations) should be permitted to be behind the jack during post-tensioning operations.
- Signs and barriers should be erected to limit employee access to the post-tensioning area during tensioning operations.
- Appropriate fire protection measures should be taken during burning operations, including by not limited to spark control or blankets, fire extinguishers, wetting formwork etc.

Emergency Response Procedures

In the event of a collapse or failure of formwork, false work or an excavation, the following general emergency procedures should be initiated:

Initial Stage of a collapse (before rescue recovery)

• Get other exposed individuals out of the area.

- Call 911
- Secure the area
- Shut down all equipment that might cause vibration (with the exception of dewatering equipment) or additional loading. Reroute traffic to eliminate vibration if necessary.
- Do not enter a failed excavation or area of collapse without adequate protection
- Do not remove hand tools, personal protective equipment, or other material from the scene that may be used to locate a victim.
- Begin removing standing or seeping water
- Find out if the failure damaged a utility. If so, take appropriate action.
- Consider tying a digging tool to a rope and tossing it t a conscious and able victim so that he or she may dig out without having another person enter the excavation.
- Account for everyone
- Follow standard emergency procedures as detailed in the Crisis Management Plan.

Rescue or recovery

- Do not attempt to pull a partially trapped/buried victim out by a rope or sling. This may cut the victim in half or pull limbs from the body. It may also loosen dirt or material enough to create a secondary cave-in/collapse.
- If equipment is used to remove material from around a victim, remove/dig so that loosened material will fall away rather than toward the victim. It is generally bad practice to use equipment to dig someone out because the vibration and surcharge can cause further failures. In the case of an excavation, a better option might be to locate and use a vacuum truck.
- Assist all emergency response personnel as needed.
- Ensure that adequate equipment is available for a sustained rescue effort (e.g. shoring materials, equipment, generator, lighting, supplies, personnel etc.)
- Control traffic and crowds. Reroute traffic as necessary.

Permitting/Documentation

Before a contractor is on site, the following items should be obtained in writing:

- Permit for excavation/trenching activities (Cal OSHA Excavation Notification Form as applicable) for all trenches/excavations that are equal to or greater than 5' in depth where an employee is required to enter.
- Permit for any false work or scaffolding 36' in height or greater total.
- Excavation and trenching plan
- Shoring/False work design or plan
- Name(s) of competent person(s)
- Soils analysis report
- Copy of their Safety Manual

FORMS

OBAYASHI

MANAGEMENT INSPECTION REPORT Job# Job Location/Name Date Time Month / Day / Year VENTURE Jobsite Supervisor Safety Manager First First Last Webcor/Obayashi Joint Venture Principal Insurance Representative First First **X** – Corrective Action Required [*O* – No Corrective Action Required CORRECTED CORRECTED WEBCOR/ OBAYASHI WEBCOR/ OBAYASHI SUB N/A 7. FIRE PROTECTION 1. PERSONAL PROTECTIVE EQUIPMENT 1. Hard Hats 1. Extinguishers 2. Eye Protection 2. Flammable Materials 3. Ear Protection 3. Welding / Cutting Equipment 4. Respirators 5. Proper Clothing 8. TOOLS 6. Footwear 1. Condition 2. Guarded 7. Safety Belts 3. Power Cords 2. HOUSEKEEPING 4. Temp. Power Boxes 1. Exits & Stairs Clear 9. SITE & PUBLIC PROTECTION 2. Piling & Stacking 1. Excavation / Trenches 3. Debris Removal 4. Nails Bent or Removed 2. Earth Moving Equipment 3. Forklift / Cranes 3. LADDERS & STAIRS 4. Fences 1. Ladder Condition 5. Lighting 2. Ladders Tied Off 6. Barricades 3. Ladder 3' Above Landings 7. Signage 8. Rebar Caps 4. Stairs 4. RAILINGS / FLOOR OPENINGS 10. FIRST AID 1. Perimeter 1. Trained Personnel 2. Floor Openings / Shafts 2. Kits / Supplies 3. Sanitation / Water 3. Stairs / Ramps 4. Walkways 5. Elevator Door Openings 11. PROGRAM / INFORMATION 1. Twice Daily Inspections 5. SCAFFOLDS 2. Orientation: New Employee / Haz. Sub. 1. Railings & Kickboards Safety Meetings 4. Required Signs Posted 2. Tied to Building 3. Planks & Platforms 12. OTHER (LISTS)

Comments:

Title / Signature:

6. ELECTRICAL

2. Grounding

3. Cords, Plugs & Receptacles

1. Lighting

1. Safety Manual 2. MSDS Book

3. CAL-OSHA 200 Log (Posted Every February)



DAILY PROJECT INSPECTION

Job#

Job Location/Name

Week Ending Month / Day / Year

$m{X}$ – Corrective Action Required	l 📖
-------------------------------------	-----

O – No Corrective Action Required

		M	Т	W	ТН	F	
A.	BASICS						COMMENTS
	1. Workers are wearing personal protective equipment						
	2.exits and stairways are clear						
	3.Construction material stored properly						
	4.Site debris removed						
	5.Nails bent or removed						
	6.Ladder condition and placement						
	7.Permanent & temporary rails						
	8.Cylinder storage						
	9.Hazardous material storage						
	10.Electrical Cords and grounding						
	11.Extinguishers in place where needed						
	12.Excavation / trenches						
	13.First aid kit is accessible & stocked						
	14.Required signs posted						
	15.Construction equipment						
В.	CRANES						
	1.Crane certification						
	2.Load chart						
	3.Operator maintenance reports updated						
C.	MANLIFT						
	1.Ramps, rails, phones & doors are maintained properly						
	2.Personnel stretcher stored on top of the man lift						
	3.Fire extinguisher in place						
	4.Weekly maintenance check reports		-				
_	D. CHILOEG						
υ.	BACKHOES						
	1.Back-up bell working		-				
	Wearing safety equipment Personnel working with the backhoe a safe distance from the		1				
	backhoe bucket at all times						
	backing bucket at an times						
E.	TRUCKS						
1.	1.Back-up bell working						
	2.Driver wearing safety equipment						
F.	COMPRESSOR						
	1.Properly maintained						
	2.Air tools working properly						
	3.Personnel wearing correct safety equipment and have been						
	instructed how to use the equipment						
	4.All air hose connectors are wired together						
G.	SHORING / SCAFFOLDING						
	1.Railings & kick boards						
	2.Tied off / braced correctly						
	3.Planking is the correct size						
				1	1	1	

Supervisor			First					
EQUIPMENT SAFETY	INSPECTIO	N CH						
Date:								
Project:								
Equipment:								
All guards and fenders Brakes Lights – front, rear, side, of Back-up alarm – horn Ladders, stairs, hand hold ROPS (Roll-over protection Seat belts Fire extinguisher Glass Tires Electrical cords Ground fault circuit interrection Electrical hand tools Powder actuated tools Pneumatic condition of al	s on) upters			OK O	- - - - - - -		Need Need Need Need Need Need Need Need	ds Repair ds Repair
Other Items Checked:								
Oil level and leaks Hydraulic oil level and leaks Anti-freeze level and leaks Fuel level and leaks First aid kit Repaired by: Checked by:	OK			_		Add Add Add Add Add		Change Change Change Change
checked by.								

JOB HAZARD ANALYSIS

JOB HAZARD ANALYSIS	ALYSIS	JOB TITLE (and number if applicable):	PAGE OF JHA NO.	DATE:	□ NEW □ REVISED
COMPANY ORGANIZATION:		LOCATION:		DEPARTMENT:	
TITLE OF PERSON WHO DOES SUPERVISOR: JOB:	SUPERVISOR:	REQURED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT	ECTIVE EQUIPMENT		
ANALYSIS BY:		REVIEWED BY:		APPROVED BY:	
l					
OPERATIONS SEQUENCE:	EQUIPMENT, TOOLS AND ALL FACILITIES INVOLVED:	POTENTIAL HAZARDS:	RECOMMENDED AC	RECOMMENDED ACTION OR PROCEDURE	PAGE/SECTION REFERENCE FROM SUBCONTRACTOR IIPP:

91

WELDING / CUTTING "HOT WORK" PERMIT

Permit #	
Date:	
Subcontractor:	
Floor:	Room:
Area:	

CONDITIONS FOR PERFORMANCE OF THE WORK

- 1. A Designated Fire Watch shall be furnished by the subcontractor performing the work. The Fire Watch shall have no other assigned duties but to ensure a Safe environment in the area during and after the activity of welding, cutting, or open-flame operations.
- 2. The Fire Watch shall clear the work area, and ensure that it be kept free, of all combustible materials. In occupied buildings, the fire suppression system shall be in operation.
- 3. Fire-retardant tarpaulins are acceptable and shall be used where applicable.
- 4. All welding/cutting equipment shall be removed from the building daily. This provision applies to work performed in an existing, occupied portion of the facility.
- 5. The Fire Watch shall be equipped with appropriate personal protective equipment, such as eye protection, gloves, head protection, welder's jacket, etc.
- 6. Equipment shall be located so that exhaust fumes are naturally ventilated from the building. Where such locations are not possible, mechanical ventilation shall be provided by the subcontractor performing the work.
- 7. All oxygen/acetylene equipment shall be transported, used, and stored in strict compliance with WISHA Construction Safety Orders. A separate fire extinguisher (10 B: C minimum) is required at each oxygen/acetylene setup.
- 8. Appropriate fire extinguishers shall be kept in the work area while all work is in progress. Fire extinguishers are to be provided by the subcontractor performing the work as follows:

WORK AREA	FIRE EXTINGUISHER TYPE	NUMBER REQ'D
Equipment Spaces	ABC (20 lbs)	2
Other Spaces	ABC (20 lbs)	1

- 9. Welding/cutting shall not be performed until the area has been approved by the Fire Safety Manager.
- 10. Upon completion of the "Hot Work," the Fire Watch shall inspect the work area and ensure that there are no lingering sparks, smoldering materials, etc. The fire watch shall be maintained a minimum of ½ hour after work has been completed.

HEAT ILLNESS PREVENTION POLICY

Purpose

The purpose of Heat Illness Prevention Policy is to meet the requirements set forth in the Heat Illness Prevention Standard, Title 8, California Code of Regulations, Section 3395 and also to serve as a supplement to Webcor/Obayashi Joint Venture's Injury and Illness Prevention Program (IIPP). This information is intended and must be used in conjunction with the IIPP. The Heat Illness Prevention Policy establishes procedures and provides information which is necessary to ensure that Webcor/Obayashi Joint Venture's staff is knowledgeable in the prevention and recognition of heat illness to ensure their own safety and the safety of others.

Procedures and Guidelines

In compliance with Heat Illness Prevention Standard, Title 8 regulations, Webcor strives to provide a safe and healthful work environment. To do so the following Procedures are required for all employees of Webcor/Obayashi Joint Venture:

- Provide training to all employees by their supervisors. All trainings should be documented with an employee sign in sheet. Topics include:
 - Types of Heat Illness and their symptoms.
 - Environmental and personal risk Factors for Heat Illness.
 - Webcor/Obayashi Joint Venture's Heat Illness Prevention Policy.
 - The importance or drinking water frequently throughout the day.
 - The importance of reporting symptoms of Heat Illness to their employer/supervisor
 - The importance of allowing the body to adjust gradually to working in high heat.
 - Webcor Procedures for responding to Heat Illness symptoms.
 - Webcor/ Obayashi's Procedures for contacting emergency services.
 - Webcor/Obayashi Joint Venture's Procedures for emergency communication.
- Provide training to all Supervisors. Topics include:
 - All information to be provided to employees.
 - The procedures the supervisor is to follow in implementing this Policy.
 - The Procedures to follow when an employee's begins to show symptoms of heat illness.
- Webcor /Obayashi Joint Venture is to provide access to potable drinking water meeting the requirements of Sections 1524, 3363, and 3457 as applicable to all employees. Where it is not plumbed or otherwise continuously supplied, it shall be provided in sufficient quantity at the beginning of the work shift to provide one quart per employee per hour for drinking for the entire shift. Employers may begin the shift with smaller quantities of water if they have effective procedures for replenishment during the shift as needed to allow employees to drink one quart or more per hour. The frequent drinking of water shall be encouraged.
- Webcor/Obayashi Joint Venture is to provide access to an area with shade that is either open to the air
 or provided with ventilation or cooling for a period of no less than five minutes for employees
 suffering from heat illness or believing a preventative recovery period is needed. Such access to shade
 shall be permitted at all times.

• During the designated warmer months of the year (April through September) all jobsites are required to incorporate heat illness prevention and awareness training into the Tailgate Safety Meetings. Shade and plenty of water shall be provided in sufficient amount to each and every employee.

Heat Illness Prevention

Heat related illnesses are avoidable if the employees are trained and the right actions are taken before, during, and after working in either indoor or outdoor hot conditions. High temperatures, humidity, air velocity and radiant heat from the sun or a furnace can stress the body's ability to cool itself making heat illness a big concern during hot weather months. These would be considered environmental risk factors. Every employee whose job duties require them to work in the outdoors during summer months, are exposed to elevated heat conditions and therefore are susceptible to heat illness. The three major forms of heat illnesses are: **heat cramps**, **heat exhaustion**, and **heat stroke**. Heat stroke can be a life threatening condition. This document will outline those actions as well as describing the three major forms of heat illness, how to recognize them, and what an action to take to provide first aid before medical care is provided.

Heat Cramps

• Description:

Heat cramps are the most common type of heat related injury and probably have been experienced by nearly everyone at one time or another. Heat cramps are muscle spasms which usually affect the arms, legs, or stomach. Frequently they do not occur until sometime later after work, at night, or when relaxing. Heat cramps are caused by heavy sweating, especially when water is not replaced quickly enough. Although heat cramps can be quite painful; they usually don't result in permanent damage.

• Prevention/First Aid:

Drink electrolyte solutions such as Gatorade or plenty of water during the day and try eating more fruits such as bananas to help keep your body hydrated during hot weather. Call 911 and contact your supervisor immediately if the Person becomes ill.

Heat Exhaustion

• Description:

Heat exhaustion is more serious than heat cramps. It occurs when the body's internal temperature regulating system is overworked, but has not completely shut down. In heat exhaustion, the surface blood vessels and capillaries, which originally enlarged to cool the blood, collapse from loss of body fluids and necessary minerals. this happens when you do not drink enough fluids to replace what you are sweating away symptoms Include: Headache, heavy sweating, intense thirst, dizziness, fatigue, loss of coordination, nausea, impaired judgment, loss of appetite, hyperventilation, tingling in hands or feet, Anxiety, cool moist skin, weak and rapid pulse (120-200), and low to normal blood

Prevention/First Aid:

The employee suffering these symptoms should be moved to a cool location such as a shaded area or air-conditioned building. Have them lie down with their feet slightly elevated. Loosen their clothing, apply cool, wet clothes or fan them. Have them drink water or electrolyte drinks. Try to cool them down, and have them checked by medical personnel. Victims of heat

exhaustion should avoid strenuous activity for at least a day, and they should continue to drink water to replace lost body fluids. Call 911 if the person becomes non-responsive, refuses water, vomits, or loses consciousness.

Heat Stroke

• Description:

Heat stroke is a life threatening illness with a high death rate. It occurs when the body has depleted its supply of water and salt, and the victim's core body temperature rises to deadly levels. A heat stroke victim may first suffer heat cramps and/or heat exhaustion before progressing into the heat stroke stage, but this is not always the case. It should be noted that, on the job, heat stroke is sometimes mistaken for a heart attack. It is therefore very important to be able to recognize the signs and symptoms of heat stroke and to check for them anytime an employee collapses while working in a hot environment. Symptoms of heat stroke include: A high body temperature (103 degrees F); a distinct absence of sweating (usually); hot red or flushed dry skin; rapid pulse; difficulty breathing; constricted pupils; any/all the signs or symptoms of heat exhaustion such as dizziness, headache, nausea, vomiting, or confusion, and possibly more severe systems including; bizarre behavior; and high blood pressure. Advance symptoms may be seizure or convulsions, collapse, loss of consciousness and a body temperature of over 108 degrees F.

• Prevention/First Aid:

It is vital to lower a heat stroke victim's body temperature. Quick actions can mean the difference between life and death. Pour water on them, fan them, or apply cold packs. Call 911 to get the person medical aid as soon as possible.

Guidelines for Preventing Heat Illness

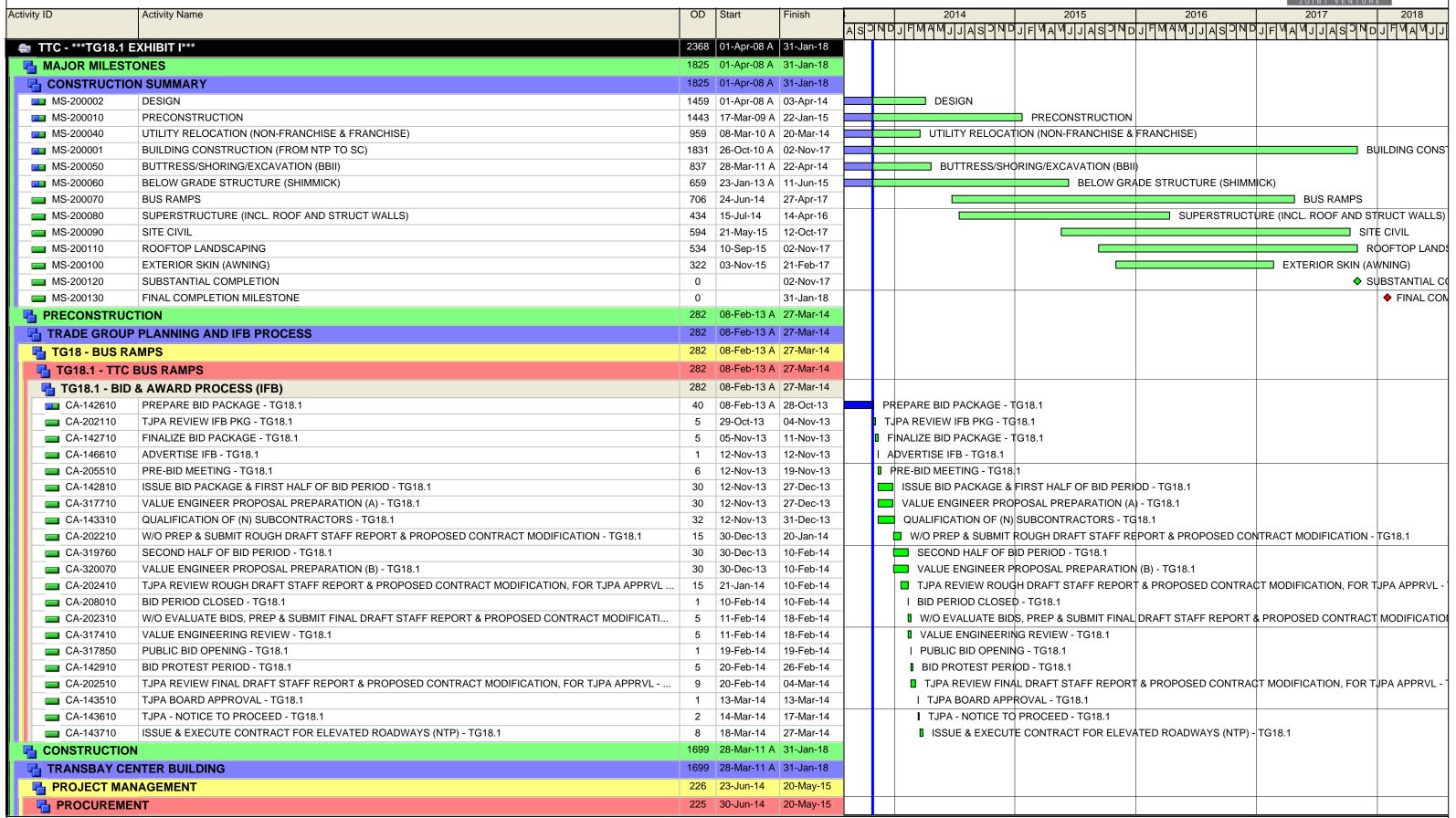
- If you are coming back to work from an illness or an extended break or you are just starting to a job working in the heat, it is important to be aware that you are more vulnerable to heat stress until your body has time to adjust. Let your supervisor know you are not used to the heat. It takes about 5 7 days for your body to adjust.
- Drinking plenty of water frequently is vital to workers exposed to the heat. An individual may produce as much as 2 to 3 gallons of sweat per day. In order to replenish that fluid the worker should drink 3 to 4 cups of water every hour starting at the beginning of your shift.
- Taking your breaks in a cool shaded area and allowing time for recovery from the heat during the day are effective ways to avoid heat illness.
- Avoid or limit the use of alcohol and caffeine during periods of extreme heat. Both dehydrate the body.
- If your or a co-worker start to feel symptoms such as nausea, dizziness, weakness or unusual fatigue, let your supervisor know and rest in a cool shaded area. If symptoms persist or worsen seek immediate medical attention.
- Whenever possible ear clothing that provides protection from the sun but allows airflow to the body. Protect your head and shade your eyes if working outdoors.
- When working in the heat be sure to pay extra attention to your coworkers and be sure you know how to call for medical attention.

END OF SITE SPECIFIC SAFETY PLAN

TRANSBAY TRANSIT CENTER

WESTOR OBAYASHI

TG18.1 EXHIBIT I SCHEDULE



Layout: Exhibit I

TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

Activity ID	Activity Name	OD	Start	Finish		2014 2015 2016 2017 2018
,	,				ASO	MDJFMAMJJASJNOJFMAMJJASJNOJFMAMJJASJNOJFMAMJJASJNOJFMAMJ
🛂 TG18.1 - BU	RAMPS	225	30-Jun-14	20-May-15		
PS-215520	REBAR MINIMUM PROCUREMENT TO START WORK - TG18.1	40	30-Jun-14	25-Aug-14		REBAR MINIMUM PROCUREMENT TO START WORK - TG 18.1
PS-215660	BENTS MINIMUM PROCUREMENT TO START WORK - TG18.1	10	22-Jul-14	04-Aug-14		■ BENTS MINIMUM PROCUREMENT TO START WORK - TG18.1
PS-215530	FALSE WORK MINIMUM PROCUREMENT TO START WORK - TG18.1	40	05-Aug-14	30-Sep-14		FALSE WORK MINIMUM PROCUREMENT TO START WORK - TG18.1
PS-215550	MEP MINIMUM PROCUREMENT TO START WORK - TG18.1	80	03-Sep-14	29-Dec-14		MEP MINIMUM PROCUREMENT TO START WORK - TG18.1
PS-215560	CABLE STAYS MINIMUM PROCUREMENT TO START WORK - TG18.1		03-Sep-14			CABLE STAYS MINIMUM PROCUREMENT TO START WORK - TG18.1
PS-215540	STEEL GIRDER MINIMUM PROCUREMENT TO START WORK - TG18.1	180	03-Sep-14	20-May-15		STEEL GIRDER MINIMUM PROCUREMENT TO START WORK - TG18.1
START OF CO	DNSTRUCTION/MOBILIZE	1	23-Jun-14			
🖶 TG18.1 - BU	S RAMPS	1	23-Jun-14	23-Jun-14		
■ BR-190810	MOBILIZATION / START OF CONSTRUCTION	1	23-Jun-14	23-Jun-14		I MOBILIZATION / START OF CONSTRUCTION
FIELD WORK		1699	28-Mar-11 A	31-Jan-18		
BUTTRESS/S	HORING/EXCAVATION BBI	1317	28-Mar-11 A	14-Jul-16		
ZONE 1 (BUI	LDING LINES 1 - 10) BBI	9	14-Jul-14	24-Jul-14		
ZONE 1 TRE	STLE	9	14-Jul-14	24-Jul-14		
SX-BB15140	REMOVE TRESTLE PILE (28' SECTION) - ZONE 1	9	14-Jul-14	24-Jul-14		■ REMOVE TRESTLE PILE (28' SECTION) - ZONE 1
🛂 ZONE 2 (BUI	LDING LINES 10 - 19) BBI	9	14-Jul-14	24-Jul-14		
ZONE 2 TRE	STLE	9	14-Jul-14	24-Jul-14		
	REMOVE TRESTLE PILE (28' SECTION) - ZONE 2	9	14-Jul-14	24-Jul-14		REMOVE TRESTLE PILE (28' SECTION) - ZONE 2
ZONE 3 (BUI	LDING LINES 19 - 25) (STRUTS 38-50) BBI	969	21-Oct-11 A	11-Nov-15		
	SCHEDULED CALENDAR DAYS ZONE 3 (K=535) (LOE)	535	21-Oct-11 A	16-Jan-14		SCHEDULED CALENDAR DAYS ZONE 3 (K=535) (LOE)
	LOW GRADE DEMO/EXCAVATION/BRACING	54	21-Oct-13 A	!		
_	INSTALL, STRESS, WELD STRUTS - (D) - ZONE 3 (EAST)	6	21-Oct-13 A	29-Oct-13		INSTALL, STRESS, WELD STRUTS - (D) - ZONE 3 (EAST)
	EXCAVATE LEVEL 5 - ZONE 3 (EAST)	12	23-Oct-13 A	01-Nov-13		EXCAVATE LEVEL 5 - ZONE 3 (EAST)
■ SI-0354-E	REMOVE TIMBER PILES LEVEL 5 - ZONE 3 (EAST)	7	23-Oct-13 A	01-Nov-13		REMOVE TIMBER PILES LEVEL 5 - ZONE 3 (EAST)
■ SX-BB61192	CDSM FILL COAT (SPEC 31-00-00 3.8L) - AREA 9	10	06-Jan-14	17-Jan-14		■ CDSM FILL COAT (SPEC 31-00-00 3.8L) - AREA 9
ZONE 3 TRE	STLE	180	01-Nov-13	24-Jul-14		
SX-BB35121	INSTALL TRESTLE PILE BRACING (D) - ZONE 3 (EAST)	6	01-Nov-13	08-Nov-13	1	INSTALL TRESTLE PILE BRACING (D) - ZONE 3 (EAST)
SX-BB35140	REMOVE TRESTLE PILE (28' SECTION) - ZONE 3	9	14-Jul-14	24-Jul-14		REMOVE TRESTLE PILE (28' SECTION) - ZONE 3
ZONE 3 FIR	ST STREET BRIDGE	30	30-Sep-15	11-Nov-15		
SX-BB20700	REMOVE BRIDGE - FIRST STREET	30	30-Sep-15	11-Nov-15		REMOVE BRIDGE - FIRST \$TREET
ZONE 3 MIC	ROPILE AND MUD SLAB	19	12-Nov-13	10-Dec-13		
■ BG-BB32020	INSTALL MICROPILES - GEO F10 (21.8-24.2)	4	12-Nov-13	15-Nov-13		I INSTALL MICROPILES - GEO F10 (21.8-24.2)
■ SI-0353-3D	POST GROUT MICROPILES - GEO F10 (21.8-24.2) (last installed)	3	18-Nov-13	20-Nov-13		I POST GROUT MICROPILES - GEO F10 (21.8-24.2) (last installed)
■ BG-BB32120	INSTALL MICROPILES - GEO F11 (24.2-26.5)	4	18-Nov-13	21-Nov-13		I INSTALL MICROPILES - GEO F11 (24.2-26.5)
■ SI-0353-3E	CURE MICROPILE POST GROUT - GEO F10 (21.8-24.2) (last installed)	3	21-Nov-13	23-Nov-13		URE MICROPILE POST GROUT - GEO F10 (21.8-24.2) (last installed)
■ SI-0353-3G	POST GROUT MICROPILES - GEO F11 (24.2-26.5) (last installed)	3	22-Nov-13	26-Nov-13		POST GROUT MICROPILES - GEO F11 (24.2-26.5) (last installed)
■ SI-0353-3F	TEST MICROPILES - GEO F10 (21.8-24.2) (last installed)	3	25-Nov-13	27-Nov-13		TEST MICROPILES - GEO F10 (21.8-24.2) (last installed)
■ BG-BB32021	` '	5	25-Nov-13	_	_	BBII FINAL GRADE - GEO F10 (21.8-24.2)
SI-0353-3H	CURE MICROPILE POST GROUT - GEO F11 (24.2-26.5) (last installed)	3	27-Nov-13			URE MICROPILE POST GROUT - GEO F11 (24.2-26.5) (last installed)
SI-0353-3J	TEST MICROPILES - GEO F11 (24.2-26.5) (last installed)	3	02-Dec-13	_	_	TEST MICROPILES - GEO F11 (24.2-26.5) (last installed)
	BBII FINAL GRADE MILESTONE - ZONE 3 (EAST) - 10-JAN-14	0	04.5	03-Dec-13	_	BBII FINAL GRADE MILESTONE - ZONE 3 (EAST) - 10-JAN-14
	BBII FINAL GRADE - GEO F11 (24.2-26.5)	5	04-Dec-13			BBII FINAL GRADE - GEO F11 (24.2-26.5)
	LDING LINES 25 - 35) BBI		28-Mar-11 A			
	SCHEDULED CALENDAR DAYS ZONE 4 (K=1075) (LOE)		28-Mar-11 A			SCHEDULED CALENDAR DAYS ZONE 4 (K=1075) (LOE)
ZONE 4 BEI	LOW GRADE DEMO/EXCAVATION/BRACING	153	24-Sep-13 A	13-May-14		

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

A otivity ID	Activity Nama	OD	Ctort	Einich		2014	2045	2046	JOINT VENTURE	
Activity ID	Activity Name	OD	Start	Finish	ASO	2014 NDJFMAMJJASPND	2015 JFMAMJJASPND	2016 	2017 JFMAMJJASPND	2018 JFMAMJJ
☐ BUTTRESS	AREA (WEST OF STRUT 62)	142	14-Oct-13 A	13-May-14						
	DEMO BUTTRESS CLSM LEVEL 4 (WEST OF STRUT 62)	15	14-Oct-13 A	01-Nov-13	" d	DEMO BUTTRESS CLSM LEV	/EL 4 (WEST OF STRUT 6	52)		
SI-0XXX	TEMPORARY UTILITIES RELOCATION @ 181 FREMONT	14	24-Oct-13 A	06-Nov-13		TEMPORARY UTILITIES REL	OCATION @ 181 FREMO	NT		
SX-BB47080	INSTALL STRUT SUPPORTS - (D) - ZONE 4 (WEST OF STRUT 62)	13	24-Oct-13 A	12-Nov-13		INSTALL STRUT SUPPORTS	S - (D) - ZONE 4 (WEST O	F STRUT 62)		
SX-BB47260	INSTALL WALERS - (D) - ZONE 4 (WEST OF STRUT 62)	13	24-Oct-13 A	12-Nov-13		INSTALL WALERS - (D) - ZOI	NE 4 (WEST OF STRUT 6	2)		
■ SI-0227A-J	INSTALL (D) WALER CONNECTIONS - ZONE 4 (WEST OF STRUT 62)		04-Nov-13			INSTALL (D) WALER CONNE	•	,		
	INSTALL, STRESS, WELD STRUTS - (D) - ZONE 4 (WEST OF STRUT 62)	12	06-Nov-13	22-Nov-13		■ INSTALL, STRESS, WELD S				
	REMOVE TIMBER PILES LEVEL 5 - ZONE 4 (WEST OF STRUT 62)	15	25-Nov-13	17-Dec-13		REMOVE TIMBER PILES I		·		
SX-BB45560	EXCAVATE LEVEL 5 - ZONE 4 (WEST OF STRUT 62)	20	25-Nov-13	24-Dec-13		EXCAVATE LEVEL 5 - ZO	NE 4 (WEST OF STRUT 6	, 32)		
	DEMO BUTTRESS CLSM LEVEL 5 (WEST OF STRUT 62)	15	04-Dec-13	24-Dec-13		■ DEMO BUTTRESS CLSM				
■ SX-BB61202	CDSM FILL COAT (SPEC 31-00-00 3.8L) - AREA 10 (WEST OF STRUT 62)	10	05-Feb-14	19-Feb-14		CDSM FILL COAT (SF	PEC 31-00-00 3.8L) - ARE	A 10 (WEST OF STRUT 62)	
	CDSM FILL COAT (SPEC 31-00-00 3.8L) - AREA 11 (WEST OF STRUT 62)			18-Mar-14		· ·		EA 11 (WEST OF STRUT		
■ SX-BB61222	CDSM FILL COAT (SPEC 31-00-00 3.8L) - AREA 12 (WEST OF STRUT 62)	10	19-Mar-14	01-Apr-14		CDSM FILL COAT	(SPEC 31-00-00 3.8L) - Al	REA 12 (WEST OF STRUT	62)	
	CDSM FILL COAT (SPEC 31-00-00 3.8L) - AREA 13 (WEST OF STRUT 62)	15	23-Apr-14	13-May-14				AREA 13 (WEST OF STR	·	
	JTTRESS AREA (BETWEEN STRUT 63 AND 68)	59	10-Oct-13 A	16-Jan-14			,	,	,	
	INSTALL, STRESS, WELD STRUTS - (C) - ZONE 4 (BETWEEN STRUT 63 AND 68)	11	10-Oct-13 A	30-Oct-13		INSTALL, STRESS, WELD ST	RUTS - (C) - ZONE 4 (BE	 TWEEN STRUT 63 AND 68	3)	
	REMOVE TIMBER PILES LEVEL 4 - ZONE 4 (BETWEEN STRUT 63 AND 68)			25-Nov-13	1 7	REMOVE TIMBER PILES LE	. ,		,	
	EXCAVATE LEVEL 4 - ZONE 4 (BETWEEN STRUT 63 AND 68)			04-Dec-13	1 [EXCAVATE LEVEL 4 - ZON	•	,		
	INSTALL STRUT SUPPORTS - (D) - ZONE 4 (BETWEEN STRUT 63 AND 68)		19-Nov-13			■ INSTALL STRUT SUPPORT		-		
	INSTALL WALERS - (D) - ZONE 4 (BETWEEN STRUT 63 AND 68)			09-Dec-13		■ INSTALL WALERS - (D) - Z	. , , , , , , , , , , , , , , , , , , ,	,		
	INSTALL (D) WALER CONNECTIONS - ZONE 4 (BETWEEN STRUT 63 AND 68)			16-Dec-13		I INSTALL (D) WALER CON		-	B)	
	INSTALL, STRESS, WELD STRUTS - (D) - ZONE 4 (BETWEEN STRUT 63 AND 68)			19-Dec-13		I INSTALL, STRESS, WELD				
	REMOVE TIMBER PILES LEVEL 5 - ZONE 4 (BETWEEN STRUT 63 AND 68)		26-Dec-13			REMOVE TIMBER PILES			·	
	EXCAVATE LEVEL 5 - ZONE 4 (BETWEEN STRUT 63 AND 68)		26-Dec-13			EXCAVATE LEVEL 5 - Z	•	·		
	CORNERS (EAST OF STRUT 68)		24-Sep-13 A					,		
	EXCAVATE LEVEL 3 - ZONE 4 (EAST OF STRUT 68)	9	24-Sep-13 A	30-Oct-13		EXCAVATE LEVEL 3 - ZONE	4 (EAST OF STRUT 68)			
	REMOVE TIMBER PILES LEVEL 3 - ZONE 4 (EAST OF STRUT 68)	4	24-Sep-13 A	30-Oct-13		REMOVE TIMBER PILES LEV	EL 3 - ZONE 4 (EAST OF	STRUT 68)		
SX-BB47063	INSTALL STRUT SUPPORTS - (C) - ZONE 4 (EAST OF STRUT 68)	18	21-Oct-13 A	08-Nov-13		INSTALL STRUT SUPPORTS	6 - (C) - ZONE 4 (EAST OF	STRUT 68)		
SX-BB47243	INSTALL WALERS - (C) - ZONE 4 (EAST OF STRUT 68)	18	21-Oct-13 A	08-Nov-13		INSTALL WALERS - (C) - ZOI	NE 4 (EAST OF STRUT 68	3)		
■ SI-0227A-D	INSTALL (C) WALER CONNECTIONS - ZONE 4 (EAST OF STRUT 68)	8	12-Nov-13	21-Nov-13		I INSTALL (C) WALER CONNI	ECTIONS - ZONE 4 (EAS	F OF STRUT 68)		
■ SX-BB47443	INSTALL, STRESS, WELD STRUTS - (C) - ZONE 4 (EAST OF STRUT 68)	11	12-Nov-13	26-Nov-13		■ INSTALL, STRESS, WELD S	STRUTS - (C) - ZONE 4 (E	AST OF STRUT 68)		
■ SI-0354-R	REMOVE TIMBER PILES LEVEL 4 - ZONE 4 (EAST OF STRUT 68)	13	27-Nov-13	17-Dec-13		REMOVE TIMBER PILES L	EVEL 4 - ZONE 4 (EAST	OF STRUT 68)		
■ SX-BB45543	EXCAVATE LEVEL 4 - ZONE 4 (EAST OF STRUT 68)	18	27-Nov-13	24-Dec-13		EXCAVATE LEVEL 4 - ZO	NE 4 (EAST OF STRUT 6	8)		
■ SX-BB47083	INSTALL STRUT SUPPORTS - (D) - ZONE 4 (EAST OF STRUT 68)	17	26-Dec-13	21-Jan-14	1	☐ INSTALL STRUT SUPPO	ORTS - (D) - ZONE 4 (EAS	T OF STRUT 68)		
■ SX-BB47263	INSTALL WALERS - (D) - ZONE 4 (EAST OF STRUT 68)	17	26-Dec-13	21-Jan-14		INSTALL WALERS - (D)	- ZONE 4 (EAST OF STR	UT 68)		
■ SI-0227A-F	INSTALL (D) WALER CONNECTIONS - ZONE 4 (EAST OF STRUT 68)	5	22-Jan-14	28-Jan-14		I INSTALL (D) WALER C	ONNECTIONS - ZONE 4 (EAST OF STRUT 68)		
■ SX-BB47463	INSTALL, STRESS, WELD STRUTS - (D) - ZONE 4 (EAST OF STRUT 68)	6	24-Jan-14	31-Jan-14		I INSTALL, STRESS, WE	ELD STRUTS - (D) - ZONE	4 (EAST OF STRUT 68)		
■ SI-0354-S	REMOVE TIMBER PILES LEVEL 5 - ZONE 4 (EAST OF STRUT 68)	12	03-Feb-14	19-Feb-14		■ REMOVE TIMBER PIL	LES LEVEL 5 - ZONE 4 (E	AST OF STRUT 68)		
■ SX-BB45563	EXCAVATE LEVEL 5 - ZONE 4 (EAST OF STRUT 68)	17	03-Feb-14	26-Feb-14		■ EXCAVATE LEVEL 5	- ZONE 4 (EAST OF STR	UT 68)		
₹ ZONE 4 TRE	STLE	184	21-Oct-13 A	24-Jul-14						
SX-BB45100	INSTALL TRESTLE PILE BRACING (C) - ZONE 4	9	21-Oct-13 A	01-Nov-13] ,	INSTALL TRESTLE PILE BRA	CING (C) - ZONE 4			
SX-BB45120	INSTALL TRESTLE PILE BRACING (D) - ZONE 4	9	19-Dec-13	02-Jan-14		INSTALL TRESTLE PILE	BRACING (D) - ZONE 4			
SX-BB45140	REMOVE TRESTLE PILE (28' SECTION) - ZONE 4	9	14-Jul-14	24-Jul-14		■ REMOVE	TRESTLE PILE (28' SECT	ION) - ZONE 4		
ZONE 4 UTIL	ITIES & BRIDGES	105	16-Feb-16	14-Jul-16						
FREMONT S	т	30	16-Feb-16	28-Mar-16						
	REMOVE BRIDGE - FREMONT STREET	30	16-Feb-16	28-Mar-16	-			REMOVE BRIDGE	- FREMONT STREET	
		-							_	1

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TG18.1 EXHIBIT I SCHEDULE



2. 20.64-100. FRANCE REPORT ESSA, STREET EPORT ESSA, STREET 2. 20.64-100. FRANCE REPORT ESSA, STREET REPORT ESSA	Activity ID		Activity Name	OD	Start	Finish		2014	2015	2016	2017	2018
CALL STATE 1971 1974 1	,						A S D	NDJFMAMJJASDND	JFMAMJJASPND	JFMAMJJASOND	JFMAMJJASPND	JFMAMJJ
Column C	[H BEALE ST		30	02-Jun-16							
BUTTINESS AREA WEST OF STRUTTED		SX-BB41300	REMOVE BRIDGE - BEALE STREET	30	02-Jun-16	14-Jul-16				REMOVE	BRIDGE - BEALE STREET	
## 50 BB-5200 RETAILA MISCOPULUS GIO PLAY DEC STAN (PAST OF STRUT RE) 3 0.0-15 1 0.0-15 1 0.0-15 0.0-1	-	ZONE 4 MICE	ROPILE AND MUD SLAB	60	26-Dec-13	24-Mar-14						
BIRCHARD PROFESS (CROST) PROCESS (CROST) PROVIDED FOR THE PROVIDED STATE (CROST) CROST (CROST) PROVIDED FOR THE PROVIDED STATE (CROST) CROST (CROST) PROVIDED STATE (CROST) PRO		BUTTRESS	AREA (WEST OF STRUT 62)	18	26-Dec-13	22-Jan-14						
\$3 65 64400 IRBH MANCHAPILES (GEO PT (28.8.7.2) (WAST OF STRUT EQ) 3 10 20 21 4 10 20 11 4 10 20		■ BG-BB42000	INSTALL MICROPILES - GEO F12 (26.5-28.8) (WEST OF STRUT 62)	4	26-Dec-13	31-Dec-13		I INSTALL MICROPILES -	GEO F12 (26.5-28.8) (WES	ST OF STRUT 62)		
\$ 61322-34 CUER PORTORIUME FOOT FOOT TEQUE 200 (least marked MVCST OF STRUT EQ) \$ 10 - 20 - 14 \$ 10 - 20 - 14 \$ 10 - 20 - 14 \$ 10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -		■ SI-0353-4A	POST GROUT MICROPILES - GEO F12 (26.5-28.8) (last installed) (WEST OF STRUT 62)	3	02-Jan-14	06-Jan-14		POST GROUT MICROP	ILES - GEO F12 (26.5-28.8) (last installed) (WEST OF	STRUT 62)	
SAMELIAN Post DROUT MICROPILES - DOPY PS (28.53.12) (ave realised) (MPST OF STRUT 69) 10-Jun-14 1-Jun-14 1-Jun-		■ BG-BB42020	INSTALL MICROPILES - GEO F13 (28.8-31.2) (WEST OF STRUT 62)	4	02-Jan-14	07-Jan-14		I INSTALL MICROPILES	GEO F13 (28.8-31.2) (WE	ST OF STRUT 62)		
SI 10002 AC INSTITUCIONALES GEO FF 2 (Dist 2.08) (see making (ver motion) (vest 0 or SI NUI CI)		SI-0353-4B	CURE MICROPILE POST GROUT - GEO F12 (26.5-28.8) (last installed) (WEST OF STRUT 62)	3	07-Jan-14	09-Jan-14		CURE MICROPILE POS	T GROUT - GEO F12 (26.5	-28.8) (last installed) (WES	T OF STRUT 62)	
Big Graph Big Final Capability Big Fin		SI-0353-4D	POST GROUT MICROPILES - GEO F13 (28.8-31.2) (last installed) (WEST OF STRUT 62)	3	08-Jan-14	10-Jan-14		I POST GROUT MICROP	ILES - GEO F13 (28.8-31.2) (last installed) (WEST OF	STRUT 62)	
9.180334 CLUER MICROPILE POST GROUT -GEO F13 (20.84) 21.9 (bits installed) WIREST OF STRUTT (2) 1.9 (bits installed) WIREST OF STRUTT (2) 2.9 (bits installed) WIREST OF STRUTT (2) 2.9 (bits installed) WIREST OF STRUTT (3) 2.9 (bit		SI-0353-4C	TEST MICROPILES - GEO F12 (26.5-28.8) (last installed) (WEST OF STRUT 62)	3	10-Jan-14	14-Jan-14		▼ TEST MICROPILES - G	EO F12 (26.5-28.8) (last ins	talled) (WEST OF STRUT	62)	
		■ BG-BB42001	BBII FINAL GRADE - GEO F12 (26.5-28.8) (WEST OF STRUT 62)	6	10-Jan-14	17-Jan-14		BBII FINAL GRADE - G	EO F12 (26.5-28.8) (WEST	OF STRUT 62)		
BO-094/220 508 FINAL CRORDCDD F13 (28-591 2) (WEST OF STRUT 62)		■ SI-0353-4E	CURE MICROPILE POST GROUT - GEO F13 (28.8-31.2) (last installed) (WEST OF STRUT 62)	3	11-Jan-14	13-Jan-14		I CURE MICROPILE POS	T GROUT - GEO F13 (28.)	8-31.2) (last installed) (WE	T OF STRUT 62)	
Big 63 89-27/20 Real Phall CRADE HILLESTONE FOR EXTRUTE 03 AND 45 15-8-5-14 15-8-		SI-0353-4F	TEST MICROPILES - GEO F13 (28.8-31.2) (last installed) (WEST OF STRUT 62)	3	14-Jan-14	16-Jan-14		I TEST MICROPILES - G	EO F13 (28.8-31.2) (last in	stalled) (WEST OF STRUT	62)	
CAST OF BUTTLESS AREA (BIT WEN STRUT 63 AND 68)		■ BG-BB42021	BBII FINAL GRADE - GEO F13 (28.8-31.2) (WEST OF STRUT 62)	6	14-Jan-14	22-Jan-14		BBII FINAL GRADE - G	EO F13 (28.8-31.2) (WEST	OF STRUT 62)		
B. GB 6841700 MSTALL MICROPILES - GEO F14 (12-33.5) (RETWICE NSTULT 63 AND 68) 2.3 ± 1.5		■ BG-BB42022	BBII FINAL GRADE MILESTONE - ZONE 4 (WEST OF STRUT 62) - 27-JAN-14	0		22-Jan-14		♦ BBII FINAL GRADE MII	LESTONE - ZONE 4 (WES	T OF STRUT 62) - 27-JAN-	14	
Scass-Accord Post Recourt Micropilles - GeO P14 (pt 23-26) (pite Intelled) (pt Per New STRUT 63 AND 89) 3 2-Nan-14 1 Post Geottr Micropilles - GeO P14 (pt 23-25) (pite Intelled) (pt Per New STRUT 63 AND 89) 3 - (n-4-n-14 d)		EAST OF BU	JTTRESS AREA (BETWEEN STRUT 63 AND 68)	17	17-Jan-14	11-Feb-14						
SI-SSS-SH CURE MICROPILE POST CROUT - CEO F1 (pt 12-23.5) (last massing) (EP WEEN STRUT 63 AND 69) 3 of 4-eb-14 60-4eb-14 60-4eb		■ BG-BB42100	INSTALL MICROPILES - GEO F14 (31.2-33.5) (BETWEEN STRUT 63 AND 68)	7	17-Jan-14	28-Jan-14	-	■ INSTALL MICROPILES	- GEO F14 (31.2-33.5) (BI	TWEEN STRUT 63 AND (8)	
St.055.4.] TST MICROPILES - 600 F14 (31.2 33.5) illust invalidod (BETWEEN STRUT 63 AND 68) 6. 04 Feb-14 1 Heb-14		■ SI-0353-4G	POST GROUT MICROPILES - GEO F14 (31.2-33.5) (last installed) (BETWEEN STRUT 63 AND 68)	3	29-Jan-14	31-Jan-14		I POST GROUT MICRO	PILES - GEO F14 (31.2-33	5) (last installed) (BETWE	N STRUT 63 AND 68)	
B.C-B842101 Bill FinAL, GRADE - GEO F14 (31-2-3.5), (BETWEEN STRUT 63 AND 69) - 06-MAR-14 1-Feb-14		SI-0353-4H	CURE MICROPILE POST GROUT - GEO F14 (31.2-33.5) (last installed) (BETWEEN STRUT 63 AND 68)	3	01-Feb-14	03-Feb-14		I CURE MICROPILE PO	ST GROUT - GEO F14 (31	.2-33.5) (last installed) (BE	TWEEN STRUT 63 AND 68)
BBI FINAL GRADE MILESTONE - ZONE 4 (BETWEEN STRUT 63 AND 69) - 06-MAR-14 1 Mar-14 4 Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS INSIGNATION (WEST OF STRUT 68) 3 O 7-Mar-14 1 POST GROUT MICROPILES - GEO F15 (33-55.2) (MISS I		SI-0353-4J	TEST MICROPILES - GEO F14 (31.2-33.5) (last installed) (BETWEEN STRUT 63 AND 68)	3	04-Feb-14	06-Feb-14		I TEST MICROPILES -	GEO F14 (31.2-33.5) (last i	nstalled) (BETWEEN STRU	JT 63 AND 68)	
BG-BBa2200 INSTALL MICROPILES - GEO F15 (33.5-35.2) (west of STRUT 69) 6 27-Feb-14 0 09/hon-14 1 Mun-14 1 M		BG-BB42101	BBII FINAL GRADE - GEO F14 (31.2-33.5) (BETWEEN STRUT 63 AND 68)	6	04-Feb-14	11-Feb-14		BBII FINAL GRADE -	GEO F14 (31.2-33.5) (BET)	WEEN STRUT 63 AND 68)		
■ 8G-8842200 INSTALL MICROPILES - GEO F16 (33.5-36.2) (WEST OF STRUT 68) ■ S1-0353-4K. POST GROUT MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (33.5-35.2) (last installated) (WEST OF STRUT 68) ■ S1-0353-4K. DURR MICROPILES - GEO F16 (21.5-24.2) ■ S1-0354-4K. DURR MICROPILES - GEO F16 (21.5-24.2) ■ S1-0354-4K. DURR MICROPILES - GE		BG-BB42102	BBII FINAL GRADE MILESTONE - ZONE 4 (BETWEEN STRUT 63 AND 68) - 06-MAR-14	0		11-Feb-14		♦ BBII FINAL GRADE M	IILESTONE - ZONE 4 (BET	WEEN STRUT 63 AND 68	- 06-MAR-14	
S-10353-4K POST GROUT MICROPILES - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILES - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILES - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILES - GEO F15 (33.5-35.2) (west or stalled) (WEST OF STRUT 68) S-10353-4L CURR MICROPILES - GEO F15 (33.5-35.2) (west or stalled) (WEST OF STRUT 68) S-10353-4L CURR MICROPILES - GEO F15 (33.5-35.2) (west or stalled) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west or stalled) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west or stalled) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (33.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (21.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (21.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (21.5-35.2) (west installed) (WEST OF STRUT 68) S-10353-4L CURR MICROPILE POST GROUT - GEO F15 (21.5-24.2) (wes BG-8866660) S-10354-4 CURR MICROPIL		H NE AND SE	CORNERS (WEST OF STRUT 68)	18	27-Feb-14	24-Mar-14						
□ SH-0353-4M		■ BG-BB42200	INSTALL MICROPILES - GEO F15 (33.5-35.2) (WEST OF STRUT 68)	6	27-Feb-14	06-Mar-14		I INSTALL MICROPIL	ES - GEO F15 (33.5-35.2)	(WEST OF STRUT 68)		
■ S-R-0353-4M TEST MICROPILES - GEO F15 (33.5-35.2) (test installed) (WEST OF STRUT 68) ■ B-G-8B42201 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ B-G-8B42201 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ B-G-8B42201 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ B-G-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-8B42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ S-B-BB42202 Bill Filhal, GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ B-B-BILD FILHAL, GRADE - GEO F16 (33.5-35.2) (WEST OF STRUT 68) ■ B-B-BILD FILHAL, GRADE - GEO F16 (33.5-35.2) (WEST OF STRUT 68) ■ B-B-BILD FILHAL, GRADE - GEO F16 (33.5-35.2) (WEST OF STRUT 68) ■ B-B-BILD FILHAL, GRADE - GEO F16 (33.5-35.2) (WEST OF STRUT 68) ■ B-B-BILD FILHAL, GRADE - GEO F16 (33.5-35.2) (WEST OF STRUT 68) ■ B-B-BILD FILHAL, GRADE - GEO F16 (21.8-24.2) ■ B-B-B-BILD FILHAL, GRADE - GEO F16 (21.8-24.2) ■ B-B-B-BILD FILHAL, GRADE - GEO F16 (21.8-24.2) ■ B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-		■ SI-0353-4K	POST GROUT MICROPILES - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68)	3	07-Mar-14	11-Mar-14		I POST GROUT MIC	ROPILES - GEO F15 (33.5-	35.2) (last installed) (WES	OF STRUT 68)	
■ BG-BB42201 BBII FINAL GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ BG-BB42201 BBII FINAL GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ BG-BB42202 BBII FINAL GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68) ■ CV AMB-14 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 1 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SY-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ CUT AND CAP DEWATERING WELLS - ZONE 3		■ SI-0353-4L	CURE MICROPILE POST GROUT - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68)	3	12-Mar-14	14-Mar-14		I CURE MICROPILE	POST GROUT - GEO F15	(33.5-35.2) (last installed) (WEST OF STRUT 68)	
■ BG-BB42202 BBII FINAL GRADE MILESTONE - ZONE 4 (WEST OF STRUT 68) - 27-MAR-14 □ DEWATERING SUMMARY BBI ■ SX-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 1 ■ SX-BB50100 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 4 ■ BELOW GRADE STRUCTURE (BCS) ■ BGS SUMMARY ■ BGS SUMMARY ■ BGS SCOTHERMAL / MUD SLAB PREPARATION ■ BGS GCOTHERMAL / GEO F10 (21.8-24.2) ■ BGS GCOTHERMAL / GEO F10 (2		■ SI-0353-4M	TEST MICROPILES - GEO F15 (33.5-35.2) (last installed) (WEST OF STRUT 68)	3	17-Mar-14	19-Mar-14		I TEST MICROPILES	S - GEO F15 (33.5-35.2) (la	st installed) (WEST OF ST	RUT 68)	
## DEWATERING SUMMARY BBI SX-8B50000 CUT AND CAP DEWATERING WELLS - ZONE 1 5 27-May-15 5 2-Jun-15 SX-8B50100 CUT AND CAP DEWATERING WELLS - ZONE 2 5 27-May-15 5 2-Jun-15 SX-8B50200 CUT AND CAP DEWATERING WELLS - ZONE 3 5 27-May-16 0 2-Nov-15 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 3 5 27-May-16 0 2-Nov-15 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 4 5 01-Mar-16 0 7-Mar-16 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 4 5 01-Mar-16 0 7-Mar-16 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 4 5 01-Mar-16 0 7-Mar-16 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 4 5 01-Mar-16 0 7-Mar-16 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 4 5 01-Mar-16 0 7-Mar-16 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 2 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 2 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 4 SX-8B50300 CUT AND CAP DEWATERING WELLS - ZONE 2 CUT AND		■ BG-BB42201	BBII FINAL GRADE - GEO F15 (33.5-35.2) (WEST OF STRUT 68)	6	17-Mar-14	24-Mar-14		BBII FINAL GRADI	E - GEO F15 (33.5-35.2) (W	(EST OF STRUT 68)		
■ SX-BB50000 CUT AND CAP DEWATERING WELLS - ZONE 1 ■ SX-BB50100 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50100 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50200 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50200 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50200 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ CUT AN		■ BG-BB42202	BBII FINAL GRADE MILESTONE - ZONE 4 (WEST OF STRUT 68) - 27-MAR-14	0		24-Mar-14		♦ BBII FINAL GRADI	E MILESTONE - ZONE 4 (V	VEST OF STRUT 68) - 27-	ИAR-14	
■ SX-B850100 CUT AND CAP DEWATERING WELLS - ZONE 2 ■ SX-B850200 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-B850300 CUT AND CAP DEWATERING WELLS - ZONE 3 ■ SX-B850300 CUT AND CAP DEWATERING WELLS - ZONE 4 ■ SX-B850300 CUT AND CAP DEWATERING WELLS - ZONE 4 ■ SX-B850300 CUT AND CAP DEWATERING WELLS - ZONE 4 ■ SX-B850300 CUT AND CAP DEWATERING WELLS - ZONE 4 ■ BELOW GRADE STRUCTURE (BGS) ■ BELOW GRADE STRUCTURE (BGS) ■ BGS SUMMARY ■ BGS SUMMARY ■ BGS SUMMARY ■ BGS GEOTHERMAL / MUD SLAB PREPARATION ■ 6 04-Dec-13 22-Apr-14 ■ BGSG GEOTHERMAL FIELD 10 (BUILDING LINES A-J / 21.8-24.2) ■ BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) ■ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) ■ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-B856660) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) ■ BGSG11-110 INSTALL GEOTHERMAL		DEWATERING	S SUMMARY BBI	193	27-May-15	07-Mar-16						
■ SX-BB50200 CUT AND CAP DEWATERING WELLS - ZONE 3 SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 4 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 BGS GEOTHERMAL / MUD SLAB PREPARATION BGS GEOTHERMAL / MUD SLAB PREPARATION BGSG10-110 INSTALL ELECTRICAL GROUNDING - GEO F10 (21.8-24.2) BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) BGSG10-130 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) BGSG10-110 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 START OF ZONE 1 SLAB WATERPROO		SX-BB50000	CUT AND CAP DEWATERING WELLS - ZONE 1	5	27-May-15	02-Jun-15			■ CUT AND CA	P DEWATERING WELLS -	ZONE 1	
■ SX-BB50300 CUT AND CAP DEWATERING WELLS - ZONE 4 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TGO6 Start OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day		■ SX-BB50100	CUT AND CAP DEWATERING WELLS - ZONE 2	5	27-May-15	02-Jun-15			■ CUT AND CA	P DEWATERING WELLS -	ZONE 2	
BELOW GRADE STRUCTURE (BGS) 816 17-Jul-13 A 09-Nov-16 BGS SUMMARY 358 17-Jul-13 A 18-Jul-14 ■ BGS-1000 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 358 17-Jul-13 A 18-Jul-14 ■ BGS GEOTHERMAL / MUD SLAB PREPARATION 96 04-Dec-13 22-Apr-14 22-Apr-14 23-Apr-14 23-Apr-13		■ SX-BB50200	CUT AND CAP DEWATERING WELLS - ZONE 3	5	27-Oct-15	02-Nov-15			I CU	T AND CAP DEWATERIN	G WELLS - ZONE 3	
□ BGS SUMMARY □ BGS -1000 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 □ BGS GEOTHERMAL / MUD SLAB PREPARATION □ BGS GEOTHERMAL FIELD 10 (BUILDING LINES A-J / 21.8-24.2) □ BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) □ BGSG10-120 WATERPROOFING - GEO F10 (21.8-24.2) □ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) □ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) □ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) □ BGSG10-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) □ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) □ INSTALL GEOTH		■ SX-BB50300	CUT AND CAP DEWATERING WELLS - ZONE 4	5	01-Mar-16	07-Mar-16				CUT AND CAP DEV	VATERING WELLS - ZONE	4
□ BGS SUMMARY □ BGS-1000 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06 □ BGS GEOTHERMAL / MUD SLAB PREPARATION □ BGS GEOTHERMAL / BEJUI-14 □ BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) □ BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) □ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) □ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) □ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) □ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) □ INSTALL GEOTHERMAL - GEO F11 (24.2-26.5)	4	BELOW GRAD	DE STRUCTURE (BGS)	816	17-Jul-13 A	09-Nov-16						
■ BGS-1000 START OF ZONE 1 SLAB WATERPROOFING TO C1 TRESTLE REMOVAL COMPLETE (LOE) (cal day) - TG06		_		358	17-Jul-13 A	18-Jul-14						
BGS GEOTHERMAL / MUD SLAB PREPARATION 96 04-Dec-13 22-Apr-14 BGS GEOTHERMAL FIELD 10 (BUILDING LINES A-J / 21.8-24.2) 21 04-Dec-13 03-Jan-14 BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) 14 04-Dec-13 23-Dec-13 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) 2 24-Dec-13 26-Dec-13 1 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) BGS GEOTHERMAL FIELD 11 (BUILDING LINES A-J / 24.2-26.5) 21 17-Dec-13 16-Jan-14 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) FRP MUD SLAB - GEO F11 (24.2-26.5) INSTALL GEOTHERMAL - GEO F11 (24.2-26.		•		358	17-Jul-13 A	18-Jul-14		START OF	 F ZONE 1 SLAB WATERPF	ROOFING TO C1 TRESTLE	REMOVAL COMPLETE (L	OE) (cal day) -
GGS GEOTHERMAL FIELD 10 (BUILDING LINES A-J / 21.8-24.2) 21 04-Dec-13 03-Jan-14 ■ BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) 14 04-Dec-13 23-Dec-13 23-Dec-13 ■ BGSG10-100 INSTALL ELECTRICAL GROUNDING - GEO F10 (21.8-24.2) 3 19-Dec-13 23-Dec-13 23-Dec-13 24-Dec-13 24-Dec-13 25-Dec-13 25-Dec-1		BGS GEOTHE	ERMAL / MUD SLAB PREPARATION	96							, l	, , , , ,
■ BGSG10-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) ■ BGSG10-100 INSTALL ELECTRICAL GROUNDING - GEO F10 (21.8-24.2) ■ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) ■ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) ■ BGSG10-130 INSTALL ELECTRICAL GROUNDING LINES A-J / 24.2-26.5) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) (was BG-BB56660) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F10 (21.8-24.2) (was BG-BB56660) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)				21	04-Dec-13	03-Jan-14						
■ BGSG10-100 INSTALL ELECTRICAL GROUNDING - GEO F10 (21.8-24.2) 3 19-Dec-13 23-Dec-13 INSTALL ELECTRICAL GROUNDING - GEO F10 (21.8-24.2) ■ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) 2 24-Dec-13 26-Dec-13 INSTALL ELECTRICAL GROUNDING - GEO F10 (21.8-24.2) ■ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) 5 27-Dec-13 03-Jan-14 IFRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) 14 17-Dec-13 07-Jan-14 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) 3 03-Jan-14 07-Jan-14 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)			·	14	04-Dec-13	23-Dec-13		INSTALL GEOTHERMAL	- GEO F10 (21.8-24.2)			
■ BGSG10-120 WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) 2 24-Dec-13 26-Dec-13 26-Dec-13 03-Jan-14 I WATERPROOFING - MICROPILES & PILES - GEO F10 (21.8-24.2) ■ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) 5 27-Dec-13 03-Jan-14 03-Jan-14 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) 14 17-Dec-13 07-Jan-14 07-Jan-14 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) 3 03-Jan-14 07-Jan-14 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)									, , , , ,	 1.8-24.2)		
■ BGSG10-130 FRP MUD SLAB - GEO F10 (21.8-24.2) (was BG-BB56660) ■ BGS GEOTHERMAL FIELD 11 (BUILDING LINES A-J / 24.2-26.5) ■ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) ■ INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)			` '						,	· · · · · · · · · · · · · · · · · · ·		
□ BGS GEOTHERMAL FIELD 11 (BUILDING LINES A-J / 24.2-26.5) 21 17-Dec-13 16-Jan-14 □ BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) 14 17-Dec-13 07-Jan-14 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) □ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) 3 03-Jan-14 07-Jan-14 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)			` '	_			-			,		
BGSG11-110 INSTALL GEOTHERMAL - GEO F11 (24.2-26.5) BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) 3 03-Jan-14 07-Jan-14 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)						_			,, (= 0)-	,		
■ BGSG11-100 INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5) 3 03-Jan-14 07-Jan-14 I INSTALL ELECTRICAL GROUNDING - GEO F11 (24.2-26.5)	_	_						INSTALL GEOTHERMA	- GEO F11 (24 2-26 5)			
			· · ·	_		_			, ,	 24.2-26.5)		
											iramirez	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURI	
Activity ID	Activity Name	OD	Start	Finish		Mo	2014 2015	2016	2017	2018
					ASS	ND,	JFMAMJJASPNDJFVAMJJASPND			
	WATERPROOFING - MICROPILES & PILES - GEO F11 (24.2-26.5)		08-Jan-14	09-Jan-14	_	I	WATERPROOFING - MICROPILES & PILES - GEO	, ,		
	FRP MUD SLAB - GEO F11 (24.2-26.5) (was BG-BB46120)	5	10-Jan-14	16-Jan-14		I	FRP MUD SLAB - GEO F11 (24.2-26.5) (was BG-B	BB46120)		
BGS GEOTI	HERMAL FIELD 12 (BUILDING LINES A-J / 26.5-28.8)	21	21-Jan-14	19-Feb-14						
■ BGSG12-110	INSTALL GEOTHERMAL - GEO F12 (26.5-28.8)	14	21-Jan-14	07-Feb-14			■ INSTALL GEOTHERMAL - GEO F12 (26.5-28.8)			
■ BGSG12-100	INSTALL ELECTRICAL GROUNDING - GEO F12 (26.5-28.8)	3	05-Feb-14	07-Feb-14			I INSTALL ELECTRICAL GROUNDING - GEO F12	(26.5-28.8)		
■ BGSG12-120	WATERPROOFING - MICROPILES & PILES - GEO F12 (26.5-28.8)	2	10-Feb-14	11-Feb-14			WATERPROOFING - MICROPILES & PILES - G	EO F12 (26.5-28.8)		
■ BGSG12-130	FRP MUD SLAB - GEO F12 (26.5-28.8) (was BG-BB56670)	5	12-Feb-14	19-Feb-14			■ FRP MUD SLAB - GEO F12 (26.5-28.8) (was BG	-BB56670)		
BGS GEOTI	HERMAL FIELD 13 (BUILDING LINES A-J / 28.8-31.2)	21	03-Feb-14	04-Mar-14						
■ BGSG13-110	INSTALL GEOTHERMAL - GEO F13 (28.8-31.2)	14	03-Feb-14	21-Feb-14			■ INSTALL GEOTHERMAL - GEO F13 (28.8-31.2)			
■ BGSG13-100	INSTALL ELECTRICAL GROUNDING - GEO F13 (28.8-31.2)	3	19-Feb-14	21-Feb-14			I INSTALL ELECTRICAL GROUNDING - GEO F1	3 (28.8-31.2)		
■ BGSG13-120	WATERPROOFING - MICROPILES & PILES - GEO F13 (28.8-31.2)	2	24-Feb-14	25-Feb-14			I WATERPROOFING - MICROPILES & PILES - C	EO F13 (28.8-31.2)		
■ BGSG13-130	FRP MUD SLAB - GEO F13 (28.8-31.2) (was BG-BB56680)	5	26-Feb-14	04-Mar-14			■ FRP MUD SLAB - GEO F13 (28.8-31.2) (was B	G-BB56680)		
BGS GEOTI	HERMAL FIELD 14 (BUILDING LINES A-J / 31.2-33.5)	21	14-Feb-14	17-Mar-14						
■ BGSG14-110	INSTALL GEOTHERMAL - GEO F14 (31.2-33.5)	14	14-Feb-14	06-Mar-14			■ INSTALL GEOTHERMAL - GEO F14 (31.2-33.5	5)		
■ BGSG14-100	INSTALL ELECTRICAL GROUNDING - GEO F14 (31.2-33.5)	3	04-Mar-14	06-Mar-14			I INSTALL ELECTRICAL GROUNDING - GEO F	14 (31.2-33.5)		
■ BGSG14-120	WATERPROOFING - MICROPILES & PILES - GEO F14 (31.2-33.5)	2	07-Mar-14	10-Mar-14			I WATERPROOFING - MICROPILES & PILES -	GEO F14 (31.2-33.5)		
■ BGSG14-130	FRP MUD SLAB - GEO F14 (31.2-33.5) (was BG-BB46720)	5	11-Mar-14	17-Mar-14				G-BB46720)		
BGS GEOTI	HERMAL FIELD 15 (BUILDING LINES A-J / 33.5-35.2)	21	25-Mar-14	22-Apr-14						
■ BGSG15-110	INSTALL GEOTHERMAL - GEO F15 (33.5-35.2)	14	25-Mar-14	11-Apr-14			■ INSTALL GEOTHERMAL - GEO F15 (33.5-3	5.2)		
■ BGSG15-100	INSTALL ELECTRICAL GROUNDING - GEO F15 (33.5-35.2)	3	09-Apr-14	11-Apr-14			I INSTALL ELECTRICAL GROUNDING - GEC	F15 (33.5-35.2)		
■ BGSG15-120	WATERPROOFING - MICROPILES & PILES - GEO F15 (33.5-35.2)	2	14-Apr-14	15-Apr-14			I WATERPROOFING - MICROPILES & PILES	- GEO F15 (33.5-35.2)		
■ BGSG15-130	FRP MUD SLAB - GEO F15 (33.5-35.2) (was BG-BB46920)	5	16-Apr-14	22-Apr-14			■ FRP MUD SLAB - GEO F15 (33.5-35.2) (wa	s BG-BB46920)		
BGS ZONE 1	(AREAS 1-6 / BUILDING LINES 1 TO 10.5)	570	12-Oct-13 A	10-Feb-16						
	1 AREA 1 (BUILDING LINES SOUTH OF J / 1-4)	451	01-Nov-13	27-Aug-15						
	1 AREA 1 - MAT SLAB	5	01-Nov-13	07-Nov-13						
	BRACING REMOVAL - LEVEL D - BBII - Z1 A1 (was BG-BB54920 w/A3)	5	01-Nov-13			BR	ACING REMOVAL - LEVEL D - BBII - Z1 A1 (was BG	3-BB54920 w/A3)		
	1 AREA 1 - KNOCK-OUT WALLS		08-Nov-13				(,		
	KNOCK-OUT WALL WATERPROOFING (1ST LIFT) - AREA 1 - Z1 A1			22-Nov-13		□ K	NOCK-OUT WALL WATERPROOFING (1ST LIFT) - /	ARFA 1 - <i>7</i> 1 A1		
	KNOCK-OUT WALL REBAR (1ST LIFT) - AREA 1 (PHASE 1 OF 2) - Z1 A1			03-Dec-13	_		(NOCK-OUT WALL REBAR (1ST LIFT) - AREA 1 (PH			
	KNOCK-OUT FORM AND POUR (1ST LIFT) - AREA 1 (PHASE 1 OF 2) - Z1 A1			10-Dec-13	_		(NOCK-OUT FORM AND POUR (1ST LIFT) - AREA	,		
	KNOCK-OUT WALL WATERPROOFING (2ND LIFT) - AREA 1 - Z1 A1	8		14-Mar-14	_	•	I KNOCK-OUT WALL WATERPROOFING (2ND	,		
BGS01-2040	KNOCK-OUT WALL REBAR - (2ND LIFT) AREA 1 (PHASE 1 OF 2) - Z1 A1	5		21-Mar-14	_		I KNOCK-OUT WALL REBAR - (2ND LIFT) ARE	,	Δ1	
BGS01-2050	KNOCK-OUT FORM AND POUR (2ND LIFT) - AREA 1 (PHASE 1 OF 2) - Z1 A1	5		28-Mar-14			I KNOCK-OUT FORM AND POUR (2ND LIFT)	,		
BGS01-2060	KNOCK-OUT WALL REBAR (1ST LIFT) - AREA 1 (PHASE 2 OF 2) - Z1 A1	5	24-Mar-14	28-Mar-14	_		KNOCK-OUT WALL REBAR (1ST LIFT) - ARE			
BGS01-2070	KNOCK-OUT FORM AND POUR (1ST LIFT) - AREA 1 (PHASE 2 OF 2) - Z1 A1	5	31-Mar-14	04-Apr-14	_		I KNOCK-OUT FORM AND POUR (1ST LIFT)	,		
■ BGS01-2080	KNOCK-OUT WALL REBAR - (2ND LIFT) AREA 1 (PHASE 2 OF 2) - Z1 A1	5		04-Apr-14	_		KNOCK-OUT WALL REBAR - (2ND LIFT) AR	,		
■ BGS01-2090	KNOCK-OUT FORM AND POUR (2ND LIFT) - AREA 1 (PHASE 2 OF 2) - Z1 A1	_		11-Apr-14	_		KNOCK-OUT FORM AND POUR (2ND LIFT)	,		
BGS ZONE	1 AREA 1 - WEST THROAT SHEAR WALLS (TRAIN PLATFORM)		25-Nov-13	· ·					· · · · · ·	
BGS01-3000	WEST THROAT SHEAR WALL REBAR (1ST LIFT) - AREA 1 (PHASE 1 OF 2) TRAIN PLATFORM - Z1 A1			03-Dec-13		n W	VEST THROAT SHEAR WALL REBAR (1ST LIFT) - A	 REA 1 (PHASE 1 OF 2) TI	RAIN PLATFORM - 71 A1	
BGS01-3010	WEST THROAT SHEAR WALL REBAR (1ST LIFT) - AREA 1 (PHASE 2 OF 2) TRAIN PLATFORM - Z1 A1		-	10-Dec-13	_		WEST THROAT SHEAR WALL REBAR (1ST LIFT) - A	,		
BGS01-3020	WEST THROAT SHEAR FORM AND POUR (1ST LIFT) - AREA 1 TRAIN PLATFORM - Z1 A1	10	04-Dec-13	17-Dec-13	_		WEST THROAT SHEAR FORM AND POUR (1ST LIF			
BGS01-3030	WEST THROAT SHEAR WALL REBAR (2ND LIFT) - AREA 1 (PHASE 1 OF 2) TRAIN PLATFORM - Z1 A1	5	17-Mar-14	21-Mar-14	_	-	WEST THROAT SHEAR WALL REBAR (2ND	,		71 A1
BGS01-3040	WEST THROAT SHEAR WALL REBAR (2ND LIFT) - AREA 1 (PHASE 2 OF 2) - Z1 A1	5	24-Mar-14	28-Mar-14			I WEST THROAT SHEAR WALL REBAR (2ND	, ,	,	
BGS01-3050	WEST THROAT SHEAR FORM AND POUR (2ND LIFT) - AREA 1 TRAIN PLATFORM - Z1 A1	-	24-Mar-14		_		WEST THROAT SHEAR FORM AND POUR	, ,	,	
BGS ZONE	1 AREA 1 - WALLS/COLUMNS (TRAIN PLATFORM)		08-Nov-13	· ·			2		2011 01001 21701	
	I AREA 1 - WALLS/COLONINS (TRAIN FLATFORM)		08-Nov-13							
BGS ZUIVE	I ANLA 1 - WALLO (ITAIN FLATI ONWI)	191	00-1100-13	13-Aug-14						

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

		1 0 1 0 1 1 1 1 1							JOINT VENTUR	
Activity ID	Activity Name	O	O Start	Finish	1110	2014	2015	2016	2017	2018
	BGS01-4000 WALL WATERPROOFING - 1ST LIFT - Z1 A1	0	09 Nov 12	20-Nov-13		WALL WATERPROOFING				
	BGS01-4010 WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A1	3				WALL REBAR - 1ST LIF				
	BGS01-4020 WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A1	2			_	WALL REBAR - 1ST LIF	` ,			
	BGS01-4060 FORM - 1ST LIFT - 2ND SECTION - Z1 A1	9			_	FORM - 1ST LIFT - 2N				
		_			_	POUR - 1ST LIFT - 2				
	BGS01-4070 POUR - 1ST LIFT - 2ND SECTION - Z1 A1 BGS01-4080 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z1 A1	3			_		ND SECTION - 21 AT LIFT - 2ND SECTION - Z	1 01		
					_	•		IAI		
	BGS01-4200 CURE - 1ST LIFT - 2ND SECTION - Z1 A1	2			_	CURE - 1ST LIFT -		74 A4 (DO DD55400	(4.0)	
	BGS01-4090 REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A1 (was BG-BB55120 w/A3)	5						Z1 A1 (was BG-BB55120 v	,	
	BGS01-4100 BRACING REMOVAL - LEVEL C - BBII - Z1 A1 (was BG-BB55020 w/A3)	5			_			1 (was BG-BB55020 w/A3)		
	BGS01-4110 WALL WATERPROOFING - 2ND LIFT - Z1 A1	8				_	OOFING - 2ND LIFT - Z1 A	1		
	BGS01-4120 WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A1	3		·			ND LIFT (1 OF 2) - Z1 A1			
	BGS01-4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A1	2		·	_		ND LIFT (2 OF 2) - Z1 A1			
	BGS01-4170 FORM - 2ND LIFT - 2ND SECTION - Z1 A1	9	- ' '	·	_		T - 2ND SECTION - Z1 A1			
	BGS01-4180 POUR - 2ND LIFT - 2ND SECTION - Z1 A1		26-Apr-14	·			T - 2ND SECTION - Z1 A1			
	BGS01-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z1 A1	6					- 2ND LIFT - 2ND SECTIO			
	BGS01-4210 REMOVE REBRACE STRUT - LEVEL RB - Z1 A1			15-Aug-14		■ REMOV	E REBRACE STRUT - LE\	EL RB - Z1 A1		
	BGS ZONE 1 AREA 1 - COLUMNS (TRAIN PLATFORM)	4	1 21-Nov-13							
	BGS01-4500 COLUMN REBAR - Z1 A1	8	21-Nov-13	04-Dec-13		COLUMN REBAR - Z1 A1				
	BGS01-4510 COLUMN ANCHOR BOLTS - Z1 A1	10	27-Dec-13	10-Jan-14		COLUMN ANCHOR BOL	TS - Z1 A1			
	BGS01-4520 COLUMN FORM AND POUR - Z1 A1	8	13-Jan-14	23-Jan-14		COLUMN FORM AND	POUR - Z1 A1			
	GS ZONE 1 AREA 1 - LOWER CONCOURSE SLAB	70	23-Apr-14	01-Aug-14						
	BGS01-5160 DFOW MEETINGS (PREPATORY & INITIAL) - LOWER CONCOURSE SLAB	10	23-Apr-14	07-May-14		■ DFOW MEETIN	GS (PREPATORY & INITI	AL) - LOWER CONCOURS	E SLAB	
	BGS01-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A1	5	07-May-14	13-May-14		I FORM AND SH	ORE - LC DECK A & WAL	L (1 OF 2) - Z1 A1		
	BGS01-5010 REBAR - LC DECK A (1 OF 2) - Z1 A1	5	14-May-14	20-May-14		■ REBAR - LC D	ECK A (1 OF 2) - Z1 A1			
	BGS01-5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A1	5	14-May-14	20-May-14		■ FORM AND SH	HORE - LC DECK A & WAI	L (2 OF 2) - Z1 A1		
	BGS01-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A1	5	21-May-14	29-May-14		■ FORM AND S	HORE - LC DECK B & WA	LL (1 OF 2) - Z1 A1		
	BGS01-5040 MEP - LC DECK A - Z1 A1	10	21-May-14	05-Jun-14		■ MEP - LC DE	CK A - Z1 A1			
	BGS01-5050 REBAR - LC DECK A (2 OF 2) - Z1 A1	10	21-May-14	05-Jun-14		■ REBAR - LC	DECK A (2 OF 2) - Z1 A1			
	BGS01-5060 REBAR - LC DECK B (1 OF 2) - Z1 A1	5	30-May-14	05-Jun-14		I REBAR - LC	DECK B (1 OF 2) - Z1 A1			
	BGS01-5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A1	5	30-May-14	05-Jun-14		I FORM AND \$	HORE - LC DECK B & WA	LL (2 OF 2) - Z1 A1		
	BGS01-5170 DFOW MEETING (INITIAL) - PLACE AND FINISH LOWER CONCOURSE SLAB	5	30-May-14	06-Jun-14		■ DFOW MEET	ING (INITIAL) - PLACE AN	D FINISH LOWER CONC	OURSE SLAB	
	BGS01-5080 POUR - LC DECK A & WALL - Z1 A1	1	06-Jun-14	06-Jun-14		I POUR - LC D	ECK A & WALL - Z1 A1			
	BGS01-5110 CURE LC - DECK A - Z1 A1	2	1 07-Jun-14	27-Jun-14		CURE LC -	DECK A - Z1 A1			
	BGS01-5090 MEP - LC DECK B - Z1 A1	10	09-Jun-14	20-Jun-14		■ MEP - LC D	ECK B - Z1 A1			
	BGS01-5100 REBAR - LC DECK B (2 OF 2) - Z1 A1	10	09-Jun-14	20-Jun-14		■ REBAR - LC	DECK B (2 OF 2) - Z1 A1			
	BGS01-5120 POUR - LC DECK B & WALL - Z1 A1	1	23-Jun-14	23-Jun-14		I POUR - LC	DECK B & WALL - Z1 A1			
	BGS01-5130 CURE LC - DECK B - Z1 A1	2	1 24-Jun-14	14-Jul-14		■ CURE LC	DECK B - Z1 A1			
	BGS01-5140 STRIP LC - DECK A - Z1 A1	1.	4 30-Jun-14	18-Jul-14			- DECK A - Z1 A1			
	BGS01-5150 STRIP LC - DECK B - Z1 A1	1.	15-Jul-14	01-Aug-14		STRIP LC	C - DECK B - Z1 A1			
	BGS ZONE 1 AREA 1 - WALLS (LOWER CONCOURSE)	27	9 15-Jul-14	27-Aug-15						
	BGS01-6000 BRACING REMOVAL - LEVEL B - BBII - Z1 A1 (was BG-BB55220 w/A3)	5	15-Jul-14	21-Jul-14		BRACING	REMOVAL - LEVEL B - B	 BII - Z1 A1 (was BG-BB552	20 w/A3)	
	BGS01-6010 WALL WATERPROOFING - 3RD LIFT - Z1 A1	7	22-Jul-14	30-Jul-14		1 WALL WA	TERPROOFING - 3RD LI	T - Z1 A1		
	BGS01-6020 WALL REBAR (PHASE 1 OF 2) - Z1 A1	3	05-Aug-14	07-Aug-14		I WALL R	EBAR (PHASE 1 OF 2) - Z	1 A1		
	BGS01-6030 WALL REBAR (PHASE 2 OF 2) - Z1 A1	2	08-Aug-14	11-Aug-14		I WALL R	EBAR (PHASE 2 OF 2) - Z	1 A1		
	BGS01-6070 FORM - 2ND SECTION - Z1 A1	9	17-Sep-14	26-Sep-14		I FOR	M - 2ND SECTION - Z1 A1			
	BGS01-6080 POUR - 2ND SECTION - Z1 A1	3	27-Sep-14	30-Sep-14		I POU	R - 2ND SECTION - Z1 A1			
	BGS01-6090 CURE & STRIP - 2ND SECTION - Z1 A1	6	01-Oct-14	07-Oct-14		I CUR	E & STRIP - 2ND SECTIO	N - Z1 A1		

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE	Ē
Activity ID	Activity Name	OD	Start	Finish	١		2014 2015	2016 [MAM] 1 1 A 6 O N D		2018
■ BGS01-6120	D CURE - 2ND SECTION - Z1 A1	21	01-Oct-14	21-Oct-14	ASS		JFMAMJJAS⊃NDJFMAMJJAS⊃NDJF ■ CURE - 2ND SECTION - Z1 A1			1
■ BGS01-6100	D REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A1 (was BG-BB55420 w/A3)	5	08-Oct-14	15-Oct-14	_		REBRACE LOWER CONCOURSE	LEVEL - BBII - Z1 A1	was BG-BB55420 w/A3)	
BGS01-6110	D BRACING REMOVAL - LEVEL A - BBII - Z1 A1 (was BG-BB55320 w/A3)	5	22-Oct-14	28-Oct-14			BRACING REMOVAL - LEVEL A -		,	
BGS01-6130	D REMOVE REBRACE STRUT - LEVEL RA - Z1 A1	10	14-Aug-15	27-Aug-15	_			REBRACE STRUT - LE'	,	
Bees 70NE	E 1 AREA 1 - WEST THROAT SHEAR WALLS (LOWER CONCOURSE)		29-Oct-14	18-Dec-14			THE WOLL IN	CEDITION OF CITYON CE	VEETON ZITA	
BGS 2011) WEST THROAT SHEAR WALL REBAR (1ST LIFT) - AREA 1 (PHASE 1 OF 2) LOWER CONCOURSE - Z1 A1		29-Oct-14	04-Nov-14			▮ WEST THROAT SHEAR WALL RE	FRAR (1ST LIFT) - AR	FA 1 (PHASE 1 OF 2) LOW	/ER CONCOUR
BGS01-7010) WEST THROAT SHEAR WALL REBAR (1ST LIFT) - AREA 1 (PHASE 2 OF 2) LOWER CONCOURSE - Z1 A1	5	05-Nov-14	11-Nov-14	_		WEST THROAT SHEAR WALL R	,	,	
BGS01-7010) WEST THROAT SHEAR WALL REBAR (2ND LIFT) - AREA 1 (PHASE 1 OF 2) LOWER CONCOURSE - Z1 A1	5	12-Nov-14	18-Nov-14	_		WEST THROAT SHEAR WALL F	` ,	,	
BGS01-7020) WEST THROAT SHEAR WALL REBAR (2ND LIFT) - AREA 1 (PHASE 2 OF 2) LOWER CONCOURSE - Z1 A1	5	19-Nov-14	25-Nov-14	_		WEST THROAT SHEAR WALL F	,	,	
BGS01-7030) WEST THROAT SHEAR FORM AND POUR (1ST LIFT) - AREA 1 LOWER CONCOURSE - Z1 A1	10	19-Nov-14	04-Dec-14			■ WEST THROAT SHEAR FORM			
BGS01-7040) WEST THROAT SHEAR FORM AND POUR (2ND LIFT) - AREA 1 LOWER CONCOURSE - Z1 A1	10	05-Dec-14	18-Dec-14	_		■ WEST THROAT SHEAR FORM	,	•	
BGS01-7030	E 1 AREA 1 - MEZZANINE DECK	28	19-Dec-14	03-Feb-15			WEST THROAT SHEART ORK	W AND I OOK (2ND LII	1) - AINEA I LOWEIX COIN	ICOURSE - ZT
BGS 2011	FORM AND SHORE - MEZZANINE - AREA 1 (PHASE 1 OF 2) - Z1 A1	5	19-Dec-14	29-Dec-14	_		FORM AND SHORE - MEZZA	ANIINE ADEA 1 (DUAS	SE 1 OE 2) - 71 A1	
	O REBAR - MEZZANINE - AREA 1 (PHASE 1 OF 2) - Z1 A1	5	30-Dec-14	07-Jan-15	_		REBAR - MEZZANINE - ARE	,	·	
BGS01-8010	5 FORM AND SHORE - MEZZANINE - AREA 1 (PHASE 2 OF 2) - Z1 A1	5	30-Dec-14	07-Jan-15			FORM AND SHORE - MEZZA	, ,		
BGS01-8000	D MEP - MEZZANINE - AREA 1 - Z1 A1	5	08-Jan-15	14-Jan-15	_		MEP - MEZZANINE - AREA	,	3E 2 OF 2) - 21 A1	
BGS01-8020	D REBAR - MEZZANINE - AREA 1 (PHASE 2 OF 2) - Z1 A1	5	08-Jan-15	14-Jan-15	_		REBAR - MEZZANINE - ARE		71 11	
BGS01-8030	D POUR - MEZZANINE - AREA 1 - Z1 A1	1	15-Jan-15	15-Jan-15	_		POUR - MEZZANINE - AREA	` ,	ZIAI	
BGS01-8050	O CURE - MEZZANINE - AREA 1 - Z1 A1	7	16-Jan-15	27-Jan-15	_		CURE - MEZZANINE - ARE			
BGS01-8060	O STRIP AND RESHORE - MEZZANINE - AREA 1 - Z1 A1	5	28-Jan-15	03-Feb-15			I STRIP AND RESHORE - M		. 71 Δ1	
DOS01-0000	E 1 AREA 1 - RAMPS	_	04-Feb-15				1 STRIL AND RESTIONE - W	ALZZANINE - AINEA I -	ZIAI	
BGS 20NE	FORM AND SHORE - RAMPS - AREA 1 (PHASE 1 OF 2) - Z1 A1			10-Feb-15			▮ FORM AND SHORE - RAM	MDS - AREA 1 (DHASE	: 1 OF 2) - 71 A1	
BGS01-9000	D FORM AND SHORE - RAMPS - AREA 1 (PHASE 2 OF 2) - Z1 A1	15	11-Feb-15	04-Mar-15	_		FORM AND SHORE - RA	,	*	
BGS01-9010	D REBAR - RAMPS - AREA 1 - Z1 A1			11-Mar-15	_		REBAR - RAMPS - AREA	,	DL 2 OI 2) - 21 A1	
BGS01-9020) MEP - RAMPS - AREA 1 - Z1 A1	10	26-Feb-15	11-Mar-15			■ MEP - RAMPS - AREA 1			
BGS01-9040	D POUR - RAMPS - AREA 1 - Z1 A1	1	12-Mar-15	12-Mar-15	_		I POUR - RAMPS - AREA			
BGS01-9050	CURE - RAMPS - AREA 1 - Z1 A1	7	13-Mar-15	23-Mar-15	_		CURE - RAMPS - AREA			
BGS01-9060	O STRIP AND RESHORE - RAMPS - AREA 1 - Z1 A1		24-Mar-15		_		STRIP AND RESHORE		71 A1	
BGS ZONE	1 AREA 2 (BUILDING LINES SOUTH OF J / 4-6.5)							L TOWN O THEFT	217(1	
BOS ZONE	· · · · · · · · · · · · · · · · · · ·		12-Oct-13 A							
- BGS ZONE	E 1 AREA 2 - MAT SLAB	14					T CLAR CURE FOR THERMAL CONTROL 74 AC			
BGS02-1153	5 MAT SLAB CURE FOR THERMAL CONTROL - Z1 A2	14	12-Oct-13 A				AT SLAB CURE FOR THERMAL CONTROL - Z1 A2			
BGS02-1130	MAT SLAB CURE FOR STRENGTH - Z1 A2	20	12-Oct-13 A 01-Nov-13		_		AT SLAB CURE FOR STRENGTH - Z1 A2	EEE20 w/A 4)		
BGS02-1120	BRACING REMOVAL - LEVEL D - BBII - Z1 A2 (was BG-BB55520 w/A4)					l Di	RACING REMOVAL - LEVEL D - BBII - Z1 A2 (was BG-BB5	55520 W/A4)		
BGS ZUNE	E 1 AREA 2 - WALLS/COLUMNS (TRAIN PLATFORM)		08-Nov-13							
BGS ZONE	1 AREA 2 - WALLS (TRAIN PLATFORM)			07-Aug-14	_		/ALL WATERPROOFING 40T LIFT 74 A0			
BGS02-400	00 WALL WATERPROOFING - 1ST LIFT - Z1 A2	8	08-Nov-13	20-Nov-13	_	U V	VALL WATERPROOFING - 1ST LIFT - Z1 A2			
BGS02-401	10 WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A2	2	09-Jan-14	10-Jan-14	_		WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A2			
BGS02-402	20 WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A2	1	13-Jan-14	13-Jan-14	_		WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A2			
BGS02-406	60 FORM - 1ST LIFT - 2ND SECTION - Z1 A2	9	14-Jan-14	23-Jan-14			FORM - 1ST LIFT - 2ND SECTION - Z1 A2			
BGS02-407	70 POUR - 1ST LIFT - 2ND SECTION - Z1 A2	3	24-Jan-14	27-Jan-14	_		POUR - 1ST LIFT - 2ND SECTION - Z1 A2			
BGS02-408	00 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z1 A2	6	28-Jan-14	03-Feb-14	_		CURE & STRIP - 1ST LIFT - 2ND SECTION - Z1 A2			
BGS02-420	00 CURE - 1ST LIFT - 2ND SECTION - Z1 A2	21	28-Jan-14	17-Feb-14	_		CURE - 1ST LIFT - 2ND SECTION - Z1 A2	/ DO DD55700/A	4)	
BGS02-409	00 REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A2 (was BG-BB55720 w/A4)	5	04-Feb-14	10-Feb-14	_		REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A2 (`	(4)	
BGS02-410	00 BRACING REMOVAL - LEVEL C - BBII - Z1 A2 (was BG-BB55620 w/A4)	5	18-Feb-14	24-Feb-14			BRACING REMOVAL - LEVEL C - BBII - Z1 A2 (was	S BG-BB55620 W/A4)		
	10 WALL WATERPROOFING - 2ND LIFT - Z1 A2	8	25-Feb-14	06-Mar-14	_		WALL WATERPROOFING - 2ND LIFT - Z1 A2			
■ BGS02-412	20 WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A2	2	07-Mar-14	10-Mar-14			I WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A2			

Page: 7 of 86

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
ctivity ID	Activity Name	OD	Start	Finish	امام	ND	2014 2015	2016	2017	2018
■ BGS02-	-4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A2	1	11-Mar-14	11-Mar-14	A S J	ND.	J F M A M J J A S D N D J F M A M J J A S D N I I WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A2			
	-4170 FORM - 2ND LIFT - 2ND SECTION - Z1 A2	9	12-Mar-14	21-Mar-14	_		FORM - 2ND LIFT - 2ND SECTION - Z1 A2			
	-4180 POUR - 2ND LIFT - 2ND SECTION - Z1 A2	3	22-Mar-14	25-Mar-14	_		POUR - 2ND LIFT - 2ND SECTION - Z1 A2			
	-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z1 A2	6	26-Mar-14	01-Apr-14			CURE & STRIP - 2ND LIFT - 2ND SECTION	Ι. 71 Δ2		
	-4210 REMOVE REBRACE STRUT - LEVEL RB - Z1 A2	10		07-Aug-14	_		REMOVE REBRACE STRUT - LEV			
	NE 1 AREA 2 - COLUMNS (TRAIN PLATFORM)	41			_		REMOVE REBRACE CITICITY EE	VELING ZIAZ		
<u> </u>	-4500 COLUMN REBAR - Z1 A2	8			_	.	COLUMN REBAR - Z1 A2			
	-4510 COLUMN ANCHOR BOLTS - Z1 A2	-	27-Dec-13		_	_	COLUMN ANCHOR BOLTS - Z1 A2			
	-4520 COLUMN FORM AND POUR - Z1 A2	8	13-Jan-14	23-Jan-14		T	COLUMN FORM AND POUR - Z1 A2			
	DNE 1 AREA 2 - LOWER CONCOURSE SLAB	-	02-Apr-14	24-Jul-14			COLONIA I CHANAMAD I CON 2172			
	5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A2		02-Apr-14	08-Apr-14			FORM AND SHORE - LC DECK A & WALL	(1 OF 2) - 71 A2		
	5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A2	5	09-Apr-14	15-Apr-14	_		FORM AND SHORE - LC DECK A & WALL	,		
	5010 REBAR - LC DECK A (1 OF 2) - Z1 A2	3	· ·		_		REBAR - LC DECK A (1 OF 2) - Z1 A2	2012) 2172		
	5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A2	5	•				I FORM AND SHORE - LC DECK B & WA	JJ (1 OF 2) - 71 A2		
	5050 REBAR - LC DECK A (2 OF 2) - Z1 A2	5	-	16-May-14	_		I REBAR - LC DECK A (2 OF 2) - Z1 A2	2172		
	5040 MEP - LC DECK A - Z1 A2	10	-	27-May-14	_		■ MEP - LC DECK A - Z1 A2			
	5060 REBAR - LC DECK B (1 OF 2) - Z1 A2	2	-	20-May-14	_		REBAR - LC DECK B (1 OF 2) - Z1 A2			
	5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A2	5	-	27-May-14			FORM AND SHORE - LC DECK B & W/	ALL (2 OF 2) - 71 A2		
	5100 REBAR - LC DECK B (2 OF 2) - Z1 A2	5		29-May-14			■ REBAR - LC DECK B (2 OF 2) - Z1 A2	(2 0. 2) 2.7.2		
	5080 POUR - LC DECK A & WALL - Z1 A2	1	-	28-May-14			POUR - LC DECK A & WALL - Z1 A2			
	5090 MEP - LC DECK B - Z1 A2	10	-	11-Jun-14			MEP - LC DECK B - Z1 A2			
	5110 CURE LC - DECK A - Z1 A2		29-May-14				CURE LC - DECK A - Z1 A2			
	5120 POUR - LC DECK B & WALL - Z1 A2	1	12-Jun-14	12-Jun-14			I POUR - LC DECK B & WALL - Z1 A2			
	5130 CURE LC - DECK B - Z1 A2	21		03-Jul-14			CURE LC - DECK B - Z1 A2			
	5140 STRIP LC - DECK A - Z1 A2	14		09-Jul-14			STRIP LC - DECK A - Z1 A2			
■ BGS02-5	5150 STRIP LC - DECK B - Z1 A2	14	07-Jul-14	24-Jul-14			STRIP LC - DECK B - Z1 A2			
	ONE 1 AREA 2 - WALLS (LOWER CONCOURSE)		15-Jul-14	13-Aug-15						
	6000 BRACING REMOVAL - LEVEL B - BBII - Z1 A2 (was BG-BB55820 w/A4)		15-Jul-14	21-Jul-14			BRACING REMOVAL - LEVEL B - E	│ 3BII - Z1 A2 (was BG-BB558	320 w/A4)	
	6010 WALL WATERPROOFING - 3RD LIFT - Z1 A2	7	22-Jul-14	30-Jul-14			■ WALL WATERPROOFING - 3RD L	,		
	6020 WALL REBAR (PHASE 1 OF 2) - Z1 A2	2	31-Jul-14	01-Aug-14			I WALL REBAR (PHASE 1 OF 2) - Z			
	6030 WALL REBAR (PHASE 2 OF 2) - Z1 A2		04-Aug-14				I WALL REBAR (PHASE 2 OF 2) - Z			
<u> </u>	6070 FORM - 2ND SECTION - Z1 A2						FORM - 2ND SECTION - Z1 A2			
■ BGS02-6	6080 POUR - 2ND SECTION - Z1 A2	3		18-Aug-14			POUR - 2ND SECTION - Z1 A2			
■ BGS02-6	6090 CURE & STRIP - 2ND SECTION - Z1 A2	6		25-Aug-14			CURE & STRIP - 2ND SECTION	- Z1 A2		
■ BGS02-6	6120 CURE - 2ND SECTION - Z1 A2	21	19-Aug-14				☐ CURE - 2ND SECTION - Z1 A2			
■ BGS02-6	REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A2 (was BG-BB56020 w/A4)		26-Aug-14				■ REBRACE LOWER CONCOURS	SE LEVEL - BBII - Z1 A2 (wa	as BG-BB56020 w/A4)	
■ BGS02-6	BRACING REMOVAL - LEVEL A - BBII - Z1 A2 (was BG-BB55920 w/A4)	5		15-Sep-14			BRACING REMOVAL - LEVEL	A - BBII - Z1 A2 (was BG-BE	355920 w/A4)	
■ BGS02-6	REMOVE REBRACE STRUT - LEVEL RA - Z1 A2	10	31-Jul-15	13-Aug-15			■ REMO	VE REBRACE STRUT - LE\	VEL RA - Z1 A2	
BGS ZON	NE 1 AREA 3 (BUILDING LINES A-J / 1-4)	426	08-Nov-13	30-Jul-15						
	ONE 1 AREA 3 - MAT SLAB	5	08-Nov-13	15-Nov-13						
■ BGS03-1	1120 BRACING REMOVAL - LEVEL D - BBII - Z1 A3 (was BG-BB54920 w/A1)	5	08-Nov-13	15-Nov-13		I BF	RACING REMOVAL - LEVEL D - BBII - Z1 A3 (was E	BG-BB54920 w/A1)		
₽ BGS ZO	ONE 1 AREA 3 - WALLS/COLUMNS (TRAIN PLATFORM)	181	18-Nov-13	08-Aug-14						
	NE 1 AREA 3 - WALLS (TRAIN PLATFORM)	181	18-Nov-13	08-Aug-14						
<u> </u>	-4000 WALL WATERPROOFING - 1ST LIFT - Z1 A3	8		27-Nov-13		0 W	/ALL WATERPROOFING - 1ST LIFT - Z1 A3			
	-4010 WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A3	2		03-Dec-13			VALL REBAR - 1ST LIFT (1 OF 2) - Z1 A3			
	-4020 WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A3	2		05-Dec-13			VALL REBAR - 1ST LIFT (2 OF 2) - Z1 A3			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

		2 0 10 11 27 11			_			JOINT VENTURE	
vity ID	Activity Name	OE	Start	Finish	ا ما م				
■ BGS03-40	30 FORM - 1ST LIFT - 1ST SECTION - Z1 A3	q	08-Feb-14	19-Feb-14	14/3/5	NDJFMAMJJASONDJFMAMJJASONI FORM - 1ST LIFT - 1ST SECTION - Z1 A3			
	40 POUR - 1ST LIFT - 1ST SECTION - Z1 A3		20-Feb-14			I POUR - 1ST LIFT - 1ST SECTION - Z1 A3			
	00 CURE - 1ST LIFT - 1ST SECTION - Z1 A3	21				■ CURE - 1ST LIFT - 1ST SECTION - Z1 A3			
	50 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z1 A3	6	24-Feb-14			CURE & STRIP - 1ST LIFT - 1ST SECTION - 2	71 Δ3		
	90 REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A3 (was BG-BB55120 w/A1)	5	03-Mar-14			REBRACE TRAIN PLATFORM LEVEL - BBII -		V/A1)	
	00 BRACING REMOVAL - LEVEL C - BBII - Z1 A3 (was BG-BB55020 w/A1)	5				BRACING REMOVAL - LEVEL C - BBII - Z1 /	,	·	
	10 WALL WATERPROOFING - 2ND LIFT - Z1 A3	8				WALL WATERPROOFING - 2ND LIFT - Z1	`		
	20 WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A3	2	03-Apr-14	<u> </u>		WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A3			
	30 WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A3	2	· ·	·		WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A3			
	40 FORM - 2ND LIFT - 1ST SECTION - Z1 A3	9	· ·	18-Apr-14		FORM - 2ND LIFT - 1ST SECTION - Z1 A3			
	50 POUR - 2ND LIFT - 1ST SECTION - 21 A3	3	•	22-Apr-14		POUR - 2ND LIFT - 1ST SECTION - 21 A3			
	60 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z1 A3	3	23-Apr-14	·		CURE & STRIP - 2ND LIFT - 1ST SECTION - 21 AS			
	10 REMOVE REBRACE STRUT - LEVEL RB - Z1 A3	10	· ·	08-Aug-14		REMOVE REBRACE STRUT - LE			
		36				REIVIOVE REBRACE STRUT - LE	VEL RD - ZT A3		
	1 AREA 3 - COLUMNS (TRAIN PLATFORM)	8				COLUMN REBAR - Z1 A3			
	00 COLUMN REBAR - Z1 A3			11-Dec-13					
	10 COLUMN ANCHOR BOLTS - Z1 A3	10				COLUMN ANCHOR BOLTS - Z1 A3			
	20 COLUMN FORM AND POUR - Z1 A3	8		23-Jan-14		COLUMN FORM AND POUR - Z1 A3			
	1 AREA 3 - LOWER CONCOURSE SLAB		30-Apr-14						
	FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A3		30-Apr-14			FORM AND SHORE - LC DECK A & WAL	LL (1 OF 2) - Z1 A3		
	0 REBAR - LC DECK A (1 OF 2) - Z1 A3	3	-	09-May-14		REBAR - LC DECK A (1 OF 2) - Z1 A3			
	FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A3	5		13-May-14		I FORM AND SHORE - LC DECK A & WA	LL (2 OF 2) - Z1 A3		
	0 REBAR - LC DECK A (2 OF 2) - Z1 A3	5	-	16-May-14		I REBAR - LC DECK A (2 OF 2) - Z1 A3			
	FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A3	5	-	20-May-14		■ FORM AND SHORE - LC DECK B & WA	ALL (1 OF 2) - Z1 A3		
	0 MEP - LC DECK A - Z1 A3	10		29-May-14		MEP - LC DECK A - Z1 A3			
	0 REBAR - LC DECK B (1 OF 2) - Z1 A3	2		22-May-14		I REBAR - LC DECK B (1 OF 2) - Z1 A3			
	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A3	5	21-May-14			FORM AND SHORE - LC DECK B & W/	ALL (2 OF 2) - Z1 A3		
	0 REBAR - LC DECK B (2 OF 2) - Z1 A3	5	-	02-Jun-14		■ REBAR - LC DECK B (2 OF 2) - Z1 A3			
	0 POUR - LC DECK A & WALL - Z1 A3	1	-	30-May-14		I POUR - LC DECK A & WALL - Z1 A3			
	0 CURE LC - DECK A - Z1 A3		31-May-14			CURE LC - DECK A - Z1 A3			
	0 MEP - LC DECK B - Z1 A3		02-Jun-14			■ MEP - LC DECK B - Z1 A3			
BGS03-512	0 POUR - LC DECK B & WALL - Z1 A3	1	16-Jun-14	16-Jun-14		I POUR - LC DECK B & WALL - Z1 A3			
■ BGS03-513	0 CURE LC - DECK B - Z1 A3	21	17-Jun-14	07-Jul-14		■ CURE LC - DECK B - Z1 A3			
■ BGS03-514	0 STRIP LC - DECK A - Z1 A3	14	23-Jun-14	11-Jul-14		■ STRIP LC - DECK A - Z1 A3			
■ BGS03-515	0 STRIP LC - DECK B - Z1 A3	14	08-Jul-14	25-Jul-14		STRIP LC - DECK B - Z1 A3			
🔁 BGS ZONI	E 1 AREA 3 - WALLS (LOWER CONCOURSE)	254	4 22-Jul-14	30-Jul-15					
■ BGS03-600	0 BRACING REMOVAL - LEVEL B - BBII - Z1 A3 (was BG-BB55220 w/A1)	5	22-Jul-14	28-Jul-14		■ BRACING REMOVAL - LEVEL B - I	BBII - Z1 A3 (was BG-BB55	220 w/A1)	
■ BGS03-601	0 WALL WATERPROOFING - 3RD LIFT - Z1 A3	7	29-Jul-14	06-Aug-14		■ WALL WATERPROOFING - 3RD L	LIFT - Z1 A3		
■ BGS03-602	0 WALL REBAR (PHASE 1 OF 2) - Z1 A3	2	11-Aug-14	12-Aug-14		WALL REBAR (PHASE 1 OF 2) - 2	Z1 A3		
■ BGS03-603	0 WALL REBAR (PHASE 2 OF 2) - Z1 A3	2	13-Aug-14	14-Aug-14		▮ WALL REBAR (PHASE 2 OF 2) - 2	Z1 A3		
■ BGS03-604	FORM - 1ST SECTION - Z1 A3	9	17-Sep-14	26-Sep-14		■ FORM - 1ST SECTION - Z1 A3	3		
■ BGS03-605	0 POUR - 1ST SECTION - Z1 A3	3	27-Sep-14			POUR - 1ST SECTION - Z1 A3	3		
■ BGS03-606	0 CURE & STRIP - 1ST SECTION - Z1 A3	6	01-Oct-14	07-Oct-14		■ CURE & STRIP - 1ST SECTION	DN - Z1 A3		
■ BGS03-612	0 CURE - 1ST SECTION - Z1 A3	21	01-Oct-14			CURE - 1ST SECTION - Z1 A	\ 3		
■ BGS03-610	0 REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A3 (was BG-BB55420 w/A1)		08-Oct-14			■ REBRACE LOWER CONCOL	JRSE LEVEL - BBII - Z1 A3	(was BG-BB55420 w/A1)	
	0 BRACING REMOVAL - LEVEL A - BBII - Z1 A3 (was BG-BB55320 w/A1)		22-Oct-14			■ BRACING REMOVAL - LEVI		1 '	
	0 REMOVE REBRACE STRUT - LEVEL RA - Z1 A3		17-Jul-15				'E REBRACE STRUT - LEV	· · · · · · · · · · · · · · · · · · ·	
 	1 AREA 4 (BUILDING LINES A-J / 4-6.5)		3 12-Oct-13						

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

Activity ID	Activity Namo	OD.	Stort	Einich			2014 2015 2016 2017 20
Activity ID	Activity Name	00	Start	Finish	ASO	ND	2014 2015 2016 2017 20 DJFMAMJJJASJNDJFMAMJJJASJNDJFMAMJJJASJNDJFMAMJJJASJNDJFMA
₽ BGS ZON	E 1 AREA 4 - MAT SLAB	19	12-Oct-13 A	15-Nov-13			
	MAT SLAB CURE FOR THERMAL CONTROL - Z1 A4	14	12-Oct-13 A	28-Oct-13	1	M/	MAT SLAB CURE FOR THERMAL CONTROL - Z1 A4
■ BGS04-115	MAT SLAB CURE FOR STRENGTH - Z1 A4	20	12-Oct-13 A	31-Oct-13	1 🛔	M	MAT SLAB CURE FOR STRENGTH - Z1 A4
■ BGS04-112	BRACING REMOVAL - LEVEL D - BBII - Z1 A4 (was BG-BB55520 w/A2)	5	08-Nov-13	15-Nov-13		i B	BRACING REMOVAL - LEVEL D - BBII - Z1 A4 (was BG-BB55520 w/A2)
	E 1 AREA 4 - WALLS/COLUMNS (TRAIN PLATFORM)		18-Nov-13				
	1 AREA 4 - COLUMNS (TRAIN PLATFORM)	36	02-Dec-13	23-Jan-14		-	
	00 COLUMN REBAR - Z1 A4	8	02-Dec-13	11-Dec-13		•	COLUMN REBAR - Z1 A4
■ BGS04-45	10 COLUMN ANCHOR BOLTS - Z1 A4	10	27-Dec-13	10-Jan-14		ſ	COLUMN ANCHOR BOLTS - Z1 A4
	20 COLUMN FORM AND POUR - Z1 A4			23-Jan-14			COLUMN FORM AND POUR - Z1 A4
BGS ZONE	1 AREA 4 - WALLS (TRAIN PLATFORM)	171	18-Nov-13	25-Jul-14			
	00 WALL WATERPROOFING - 1ST LIFT - Z1 A4	8	18-Nov-13	27-Nov-13		1 \	WALL WATERPROOFING - 1ST LIFT - Z1 A4
■ BGS04-40	10 WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A4	1	26-Dec-13	26-Dec-13		ı	WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A4
■ BGS04-40	20 WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A4	1	27-Dec-13	27-Dec-13		ı	WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A4
■ BGS04-40	30 FORM - 1ST LIFT - 1ST SECTION - Z1 A4	9	07-Jan-14	16-Jan-14	1		FORM - 1ST LIFT - 1ST SECTION - Z1 A4
	40 POUR - 1ST LIFT - 1ST SECTION - Z1 A4		-	20-Jan-14	1 1		I POUR - 1ST LIFT - 1ST SECTION - Z1 A4
■ BGS04-40	50 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z1 A4	6	21-Jan-14	27-Jan-14		-	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z1 A4
■ BGS04-42	00 CURE - 1ST LIFT - 1ST SECTION - Z1 A4	21	21-Jan-14	10-Feb-14			CURE - 1ST LIFT - 1ST SECTION - Z1 A4
■ BGS04-40	90 REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A4 (was BG-BB55720 w/A2)	5	28-Jan-14	03-Feb-14			REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A4 (was BG-BB55720 w/A2)
■ BGS04-41	00 BRACING REMOVAL - LEVEL C - BBII - Z1 A4 (was BG-BB55620 w/A2)	5	11-Feb-14	18-Feb-14			■ BRACING REMOVAL - LEVEL C - BBII - Z1 A4 (was BG-BB55620 w/A2)
■ BGS04-41	10 WALL WATERPROOFING - 2ND LIFT - Z1 A4	8	19-Feb-14	28-Feb-14			■ WALL WATERPROOFING - 2ND LIFT - Z1 A4
■ BGS04-41	20 WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A4	1	03-Mar-14	03-Mar-14			I WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A4
■ BGS04-41	30 WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A4	1	04-Mar-14	04-Mar-14			I WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A4
■ BGS04-41	40 FORM - 2ND LIFT - 1ST SECTION - Z1 A4	9	05-Mar-14	14-Mar-14			■ FORM - 2ND LIFT - 1ST SECTION - Z1 A4
■ BGS04-41	50 POUR - 2ND LIFT - 1ST SECTION - Z1 A4	3	15-Mar-14	18-Mar-14			POUR - 2ND LIFT - 1ST SECTION - Z1 A4
■ BGS04-41	60 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z1 A4	6	19-Mar-14	25-Mar-14			CURE & STRIP - 2ND LIFT - 1ST SECTION - Z1 A4
■ BGS04-42	10 REMOVE REBRACE STRUT - LEVEL RB - Z1 A4	10	14-Jul-14	25-Jul-14			■ REMOVE REBRACE STRUT - LEVEL RB - Z1 A4
BGS ZON	E 1 AREA 4 - LOWER CONCOURSE SLAB	75	26-Mar-14	11-Jul-14			
■ BGS04-500	FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A4	5	26-Mar-14	01-Apr-14			FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A4
■ BGS04-502	FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A4	5	02-Apr-14	08-Apr-14			FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A4
■ BGS04-50 ²	0 REBAR - LC DECK A (1 OF 2) - Z1 A4	5	22-Apr-14	28-Apr-14			■ REBAR - LC DECK A (1 OF 2) - Z1 A4
■ BGS04-503	FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A4	5	29-Apr-14	05-May-14			I FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A4
■ BGS04-504	MEP - LC DECK A - Z1 A4	10	29-Apr-14	12-May-14			■ MEP - LC DECK A - Z1 A4
■ BGS04-505	80 REBAR - LC DECK A (2 OF 2) - Z1 A4	10	29-Apr-14	12-May-14			■ REBAR - LC DECK A (2 OF 2) - Z1 A4
■ BGS04-506	80 REBAR - LC DECK B (1 OF 2) - Z1 A4	5	06-May-14	12-May-14			■ REBAR - LC DECK B (1 OF 2) - Z1 A4
■ BGS04-507	70 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A4	5	06-May-14	12-May-14			FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A4
■ BGS04-508	POUR - LC DECK A & WALL - Z1 A4	1	13-May-14	13-May-14			I POUR - LC DECK A & WALL - Z1 A4
■ BGS04-509	00 MEP - LC DECK B - Z1 A4		14-May-14	-			■ MEP - LC DECK B - Z1 A4
■ BGS04-510	00 REBAR - LC DECK B (2 OF 2) - Z1 A4	10	14-May-14	29-May-14			■ REBAR - LC DECK B (2 OF 2) - Z1 A4
	0 CURE LC - DECK A - Z1 A4	21	14-May-14	03-Jun-14] [CURE LC - DECK A - Z1 A4
■ BGS04-512	POUR - LC DECK B & WALL - Z1 A4	1	30-May-14	30-May-14			I POUR - LC DECK B & WALL - Z1 A4
	00 CURE LC - DECK B - Z1 A4	21	31-May-14	20-Jun-14			■ CURE LC - DECK B - Z1 A4
	STRIP LC - DECK A - Z1 A4		04-Jun-14				STRIP LC - DECK A - Z1 A4
	STRIP LC - DECK B - Z1 A4		23-Jun-14	11-Jul-14			STRIP LC - DECK B - Z1 A4
BGS ZON	E 1 AREA 4 - WALLS (LOWER CONCOURSE)	232	22-Jul-14	29-Jun-15			
■ BGS04-600	BRACING REMOVAL - LEVEL B - BBII - Z1 A4 (was BG-BB55820 w/A2)	5	22-Jul-14	28-Jul-14			■ BRACING REMOVAL - LEVEL B - BBII - Z1 A4 (was BG-BB55820 w/A2)
■ BGS04-601	0 WALL WATERPROOFING - 3RD LIFT - Z1 A4	7	29-Jul-14	06-Aug-14			■ WALL WATERPROOFING - 3RD LIFT - Z1 A4

Page: 10 of 86

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

			1 -	1	_		JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	ASO	ND	2014 2015 2016 2017 2018
BGS04-6020	WALL REBAR (PHASE 1 OF 2) - Z1 A4	1	07-Aug-14	07-Aug-14	1/1911	4	I WALL REBAR (PHASE 1 OF 2) - Z1 A4
	WALL REBAR (PHASE 2 OF 2) - Z1 A4	1	08-Aug-14		-		I WALL REBAR (PHASE 2 OF 2) - Z1 A4
	FORM - 1ST SECTION - Z1 A4	6	09-Aug-14		-		FORM - 1ST SECTION - Z1 A4
	POUR - 1ST SECTION - Z1 A4		16-Aug-14	18-Aug-14	-		I POUR - 1ST SECTION - Z1 A4
	CURE & STRIP - 1ST SECTION - Z1 A4	4		22-Aug-14		\rightarrow	CURE & STRIP - 1ST SECTION - Z1 A4
	CURE - 1ST SECTION - Z1 A4	21	19-Aug-14				CURE - 1ST SECTION - Z1 A4
	REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A4 (was BG-BB56020 w/A2)		25-Aug-14	02-Sep-14			REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A4 (was BG-BB56020 w/A2)
	BRACING REMOVAL - LEVEL A - BBII - Z1 A4 (was BG-BB55920 w/A2)		29-Oct-14	04-Nov-14			■ BRACING REMOVAL - LEVEL A - BBII - Z1 A4 (was BG-BB55920 w/A2)
	REMOVE REBRACE STRUT - LEVEL RA - Z1 A4			29-Jun-15			REMOVE REBRACE STRUT - LEVEL RA - Z1 A4
	I AREA 4 - MECH/ELECT ENCLOSURE WALLS			17-Apr-15		-	
	INFILL WALL REBAR – E-W WALLS GRIDLINE B - Z1 A4			01-Aug-14			I INFILL WALL REBAR – E-W WALLS GRIDLINE B - Z1 A4
	INFILL WALL FORM, POUR AND STRIP – E-W WALLS GRIDLINE B (PHASE 1 OF 2) - Z1 A4			22-Aug-14	_		■ INFILL WALL FORM, POUR AND STRIP – E-W WALLS GRIDLINE B (PHASE 1 OF 2) - Z1 A4
	INFILL WALL FORM, POUR AND STRIP – E-W WALLS GRIDLINE B (PHASE 2 OF 2) - Z1 A4			09-Sep-14			INFILL WALL FORM, POUR AND STRIP – E-W WALLS GRIDLINE B (PHASE 2 OF 2) - Z1 A4
	INFILL WALL REBAR – E-W WALLS, 2ND AREA - Z1 A4		10-Sep-14	· ·	-		I INFILL WALL REBAR – E-W WALLS, 2ND AREA - Z1 A4
	INFILL FORM, POUR AND STRIP – E-W WALLS, 2ND AREA (PHASE 1 OF 2) - Z1 A4			07-Oct-14		-	■ INFILL FORM, POUR AND STRIP – E-W WALLS, 2ND AREA (PHASE 1 OF 2) - Z1 A4
	INFILL FORM, POUR AND STRIP – E-W WALLS, 2ND AREA (PHASE 2 OF 2) - Z1 A4		08-Oct-14	22-Oct-14			■ INFILL FORM, POUR AND STRIP – E-W WALLS, 2ND AREA (PHASE 2 OF 2) - Z1 A4
	INFILL WALL REBAR – E-W WALLS, 3RD AREA - Z1 A4		05-Dec-14				I INFILL WALL REBAR – E-W WALLS, 3RD AREA - Z1 A4
	INFILL FORM, POUR AND STRIP – E-W WALLS, 3RD AREA (PHASE 1 OF 2) - Z1 A4		12-Dec-14				INFILL FORM, POUR AND STRIP – E-W WALLS, 3RD AREA (PHASE 1 OF 2) - Z1 A4
■ BGS04-2080	INFILL FORM, POUR AND STRIP – E-W WALLS, 3RD AREA (PHASE 2 OF 2) - Z1 A4			22-Jan-15			■ INFILL FORM, POUR AND STRIP – E-W WALLS, 3RD AREA (PHASE 2 OF 2) - Z1 A4
	INFILL WALL REBAR – N-S WALLS, 1ST AREA - Z1 A4	5		29-Jan-15		\rightarrow	■ INFILL WALL REBAR - N-S WALLS, 1ST AREA - Z1 A4
■ BGS04-2100	INFILL FORM, POUR AND STRIP - N-S WALLS, 1ST AREA (PHASE 1 OF 2) - Z1 A4	15	30-Jan-15	20-Feb-15			■ INFILL FORM, POUR AND STRIP – N-S WALLS, 1ST AREA (PHASE 1 OF 2) - Z1 A4
■ BGS04-2110	INFILL FORM, POUR AND STRIP - N-S WALLS, 1ST AREA (PHASE 2 OF 2) - Z1 A4	10	23-Feb-15	06-Mar-15			■ INFILL FORM, POUR AND STRIP – N-S WALLS, 1ST AREA (PHASE 2 OF 2) - Z1 A4
■ BGS04-2120	INFILL WALL REBAR - N-S WALLS, 2ND AREA - Z1 A4	5	09-Mar-15	13-Mar-15			I INFILL WALL REBAR - N-S WALLS, 2ND AREA - Z1 A4
■ BGS04-2130	INFILL FORM, POUR AND STRIP - N-S WALLS, 2ND AREA (PHASE 1 OF 2) - Z1 A4	15	16-Mar-15	03-Apr-15			■ INFILL FORM, POUR AND STRIP – N-S WALLS, 2ND AREA (PHASE 1 OF 2) - Z1 A
■ BGS04-2140	INFILL FORM, POUR AND STRIP - N-S WALLS, 2ND AREA (PHASE 2 OF 2) - Z1 A4	10	06-Apr-15	17-Apr-15			■ INFILL FORM, POUR AND STRIP – N-S WALLS, 2ND AREA (PHASE 2 OF 2) - Z1
BGS ZONE 1	AREA 5 (BUILDING LINES A-J / 6.5-8.5)	398	02-Nov-13	15-Jun-15			
BGS ZONE	I AREA 5 - MAT SLAB	18	02-Nov-13	02-Dec-13			
■ BGS05-1100	MAT POUR - Z1 A5	2	02-Nov-13	03-Nov-13	- 	, мд	AT POUR - Z1 A5
■ BGS05-1150	MAT SLAB CURE FOR STRENGTH - Z1 A5	20	02-Nov-13	21-Nov-13		<u>.</u> M	MAT SLAB CURE FOR STRENGTH - Z1 A5
■ BGS05-1110	STRIP EDGE FORM - Z1 A5	3	04-Nov-13	06-Nov-13		ST	TRIP EDGE FORM - Z1 A5
■ BGS05-1120	BRACING REMOVAL - LEVEL D - BBII - Z1 A5 (WD 5-7 / WD 65-67) (was BG-BB56120 w/A6)	5	22-Nov-13	02-Dec-13		■ F	BRACING REMOVAL - LEVEL D - BBII - Z1 A5 (WD 5-7 / WD 65-67) (was BG-BB56120 w/A6)
BGS ZONE	AREA 5 - WALLS/COLUMNS (TRAIN PLATFORM)	145	03-Dec-13	01-Jul-14			
BGS ZONE 1	AREA 5 - COLUMNS (TRAIN PLATFORM)	28	12-Dec-13	23-Jan-14			
■ BGS05-4500	COLUMN REBAR - Z1 A5	8	12-Dec-13	23-Dec-13			COLUMN REBAR - Z1 A5
■ BGS05-4510	COLUMN ANCHOR BOLTS - Z1 A5	10	27-Dec-13	10-Jan-14			COLUMN ANCHOR BOLTS - Z1 A5
■ BGS05-4520	COLUMN FORM AND POUR - Z1 A5	8	13-Jan-14	23-Jan-14		!	COLUMN FORM AND POUR - Z1 A5
BGS ZONE 1	AREA 5 - WALLS (TRAIN PLATFORM)	145	03-Dec-13	01-Jul-14			
■ BGS05-4000	WALL WATERPROOFING - 1ST LIFT - Z1 A5	7	03-Dec-13	11-Dec-13		0	WALL WATERPROOFING - 1ST LIFT - Z1 A5
■ BGS05-4010	WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A5 (WD 5-7)	1	12-Dec-13	12-Dec-13		- 1 '	WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A5 (WD 5-7)
■ BGS05-4020	WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A5 (WD 65-67)		13-Dec-13			1	WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A5 (WD 65-67)
■ BGS05-4030	FORM - 1ST LIFT - 1ST SECTION - Z1 A5		19-Dec-13				FORM - 1ST LIFT - 1ST SECTION - Z1 A5
■ BGS05-4060	FORM - 1ST LIFT - 2ND SECTION - Z1 A5	6	19-Dec-13	27-Dec-13			FORM - 1ST LIFT - 2ND SECTION - Z1 A5
■ BGS05-4040	POUR - 1ST LIFT - 1ST SECTION - Z1 A5	2	28-Dec-13	30-Dec-13			POUR - 1ST LIFT - 1ST SECTION - Z1 A5
■ BGS05-4070	POUR - 1ST LIFT - 2ND SECTION - Z1 A5		28-Dec-13				POUR - 1ST LIFT - 2ND SECTION - Z1 A5
	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z1 A5		31-Dec-13			1	URE & STRIP - 1ST LIFT - 1ST SECTION - Z1 A5
■ BGS05-4080	CURE & STRIP - 1ST LIFT - 2ND SECTION - Z1 A5	4	31-Dec-13	06-Jan-14			CURE & STRIP - 1ST LIFT - 2ND SECTION - Z1 A5

Page: 11 of 86

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

					_					JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	AlsiOi	ND		2015 D 1 E W A W 1 1 A S D N	2016 DJFMAMJJASONC		2018
	BGS05-4200 CURE - 1ST LIFT - 2ND SECTION - Z1 A5	21	31-Dec-13	20-Jan-14	733		CURE - 1ST LIFT - 2NI				
	BGS05-4090 REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A5 (was BG-BB56320 w/A6)		07-Jan-14	13-Jan-14	-	Ī			A5 (was BG-BB56320 w/A6		
	BGS05-4100 BRACING REMOVAL - LEVEL C - BBII - Z1 A5 (WC 5-7 / WC 65-67) (was BG-BB56220 w/A6)		21-Jan-14	27-Jan-14		ľ			(WC 5-7 / WC 65-67) (was B	1	
	BGS05-4110 WALL WATERPROOFING - 2ND LIFT - Z1 A5	8	28-Jan-14	06-Feb-14			WALL WATERPROOF		(1.00) (1.00)	2200220 (0)	
	BGS05-4120 WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A5 (WC 5-7)	2	07-Feb-14	10-Feb-14				LIFT (1 OF 2) - Z1 A5 (W	5-7)		
	BGS05-4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A5 (WC 65-67)	2	11-Feb-14	12-Feb-14				LIFT (2 OF 2) - Z1 A5 (W	,		
	■ BGS05-4140 FORM - 2ND LIFT - 1ST SECTION - Z1 A5	6	14-Feb-14	24-Feb-14			FORM - 2ND LIFT -		,		
	BGS05-4170 FORM - 2ND LIFT - 2ND SECTION - Z1 A5	6	14-Feb-14	24-Feb-14			FORM - 2ND LIFT -				
	BGS05-4150 POUR - 2ND LIFT - 1ST SECTION - Z1 A5	2	25-Feb-14	26-Feb-14			I POUR - 2ND LIFT -				
	BGS05-4180 POUR - 2ND LIFT - 2ND SECTION - Z1 A5		25-Feb-14	26-Feb-14				2ND SECTION - Z1 A5			
	BGS05-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z1 A5		27-Feb-14	04-Mar-14				ND LIFT - 2ND SECTION	Z1 A5		
	BGS05-4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z1 A5	4	27-Feb-14	04-Mar-14			CURE & STRIP - 2N	ND LIFT - 1ST SECTION -	Z1 A5		
	BGS05-4210 REMOVE REBRACE STRUT - LEVEL RB - Z1 A5	10		01-Jul-14				REBRACE STRUT - LEVE			
	BGS ZONE 1 AREA 5 - LOWER CONCOURSE SLAB			17-Jun-14							
	BGS05-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A5	5	05-Mar-14	11-Mar-14			■ FORM AND SHOR	E - LC DECK A & WALL (OF 2) - Z1 A5		
	BGS05-5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A5	5	12-Mar-14	18-Mar-14				RE - LC DECK A & WALL	,		
	BGS05-5010 REBAR - LC DECK A (1 OF 2) - Z1 A5	5	01-Apr-14	07-Apr-14				CK A (1 OF 2) - Z1 A5			
	BGS05-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A5	5	08-Apr-14	14-Apr-14				ORE - LC DECK B & WALI	(1 OF 2) - Z1 A5		
	BGS05-5040 MEP - LC DECK A - Z1 A5	10	08-Apr-14	21-Apr-14			■ MEP - LC DECK	(A - Z1 A5	,		
	BGS05-5050 REBAR - LC DECK A (2 OF 2) - Z1 A5	10	08-Apr-14	21-Apr-14			REBAR - LC DE	CK A (2 OF 2) - Z1 A5			
	BGS05-5060 REBAR - LC DECK B (1 OF 2) - Z1 A5	5	15-Apr-14	21-Apr-14				CK B (1 OF 2) - Z1 A5			
	BGS05-5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A5	5	15-Apr-14	21-Apr-14			FORM AND SHO	ORE - LC DECK B & WAL	L (2 OF 2) - Z1 A5		
	BGS05-5080 POUR - LC DECK A & WALL - Z1 A5	1	22-Apr-14	22-Apr-14			I POUR - LC DEC	CK A & WALL - Z1 A5	,		
	BGS05-5090 MEP - LC DECK B - Z1 A5	10	23-Apr-14	06-May-14			■ MEP - LC DEC	K B - Z1 A5			
	BGS05-5100 REBAR - LC DECK B (2 OF 2) - Z1 A5	10	23-Apr-14	06-May-14			REBAR - LC DI	ECK B (2 OF 2) - Z1 A5			
	BGS05-5110 CURE LC - DECK A - Z1 A5	21	23-Apr-14	13-May-14			CURE LC - DE	CK A - Z1 A5			
	BGS05-5120 POUR - LC DECK B & WALL - Z1 A5	1	07-May-14	07-May-14			I POUR - LC DE	CK B & WALL - Z1 A5			
	BGS05-5130 CURE LC - DECK B - Z1 A5	21	08-May-14	28-May-14			CURE LC - D	ECK B - Z1 A5			
	BGS05-5140 STRIP LC - DECK A - Z1 A5	14	14-May-14	04-Jun-14			STRIP LC - D	DECK A - Z1 A5			
	BGS05-5150 STRIP LC - DECK B - Z1 A5	14	29-May-14	17-Jun-14			STRIP LC -	DECK B - Z1 A5			
Fig.	BGS ZONE 1 AREA 5 - WALLS (LOWER CONCOURSE)	259	29-May-14	15-Jun-15							
	BGS05-6000 BRACING REMOVAL - LEVEL B - BBII - Z1 A5 (WB 5-7 / WB 65-67) (was BG-BB56420 w/A6)	5	29-May-14	04-Jun-14			BRACING RE	EMOVAL - LEVEL B - BBI	- Z1 A5 (WB 5-7 / WB 65-67) (was BG-BB56420 w/A6)	
	BGS05-6010 WALL WATERPROOFING - 3RD LIFT - Z1 A5	7	05-Jun-14	13-Jun-14			WALL WATE	ERPROOFING - 3RD LIFT	- Z1 A5		
	BGS05-6020 WALL REBAR (PHASE 1 OF 2) - Z1 A5 (WB 5-7)	2	16-Jun-14	17-Jun-14			I WALL REBA	AR (PHASE 1 OF 2) - Z1 A	45 (WB 5-7)		
	BGS05-6030 WALL REBAR (PHASE 2 OF 2) - Z1 (WB 65-67)	2	18-Jun-14	19-Jun-14			I WALL REBA	AR (PHASE 2 OF 2) - Z1	(WB 65-67)		
	BGS05-6040 FORM - 1ST SECTION - Z1 A5	6	20-Jun-14	26-Jun-14			FORM - 1S	T SECTION - Z1 A5			
	BGS05-6070 FORM - 2ND SECTION - Z1 A5	6	20-Jun-14	26-Jun-14			▮ FORM - 2N	ID SECTION - Z1 A5			
	BGS05-6050 POUR - 1ST SECTION - Z1 A5	2	27-Jun-14	28-Jun-14			POUR - 1S	T SECTION - Z1 A5			
	BGS05-6080 POUR - 2ND SECTION - Z1 A5	2	27-Jun-14	28-Jun-14			POUR - 2N	ID SECTION - Z1 A5			
	BGS05-6120 CURE - 2ND SECTION - Z1 A5	21	29-Jun-14	19-Jul-14			CURE - 2	ND SECTION - Z1 A5			
	BGS05-6060 CURE & STRIP - 1ST SECTION - Z1 A5	4	30-Jun-14	03-Jul-14			I CURE & S	TRIP - 1ST SECTION - Z1	A5		
	BGS05-6090 CURE & STRIP - 2ND SECTION - Z1 A5	4	30-Jun-14	03-Jul-14			I CURE & S	TRIP - 2ND SECTION - Z	A5		
	BGS05-6100 REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A5 (was BG-BB56620 w/A6)	5	07-Jul-14	11-Jul-14			I REBRACE	LOWER CONCOURSE	EVEL - BBII - Z1 A5 (was B	G-BB56620 w/A6)	
	BGS05-6110 BRACING REMOVAL - LEVEL A - BBII - Z1 A5 (was BG-BB56520 w/A6)	5	05-Nov-14	11-Nov-14			I B	BRACING REMOVAL - LE	VEL A - BBII - Z1 A5 (was B0	-BB56520 w/A6)	
	BGS05-6130 REMOVE REBRACE STRUT - LEVEL RA - Z1 A5	10	02-Jun-15	15-Jun-15				■ REMOVE	REBRACE STRUT - LEVEL I	A - Z1 A5	
<u>₽</u> E	BGS ZONE 1 AREA 6 (BUILDING LINES A-J / 8.5-10.5)	373	19-Oct-13 A	30-Apr-15							
								1	1	1	1

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

A ativity ID	Activity Name	O.D.	Ctort	Tipich		_	0044	0045	2040	JOINT VENTURE	
Activity ID	Activity Name	OD	Start	Finish	ASON	10	2014 	2015 JFMAMJJASPND	2016 JFMAMJJASOND	2017 JFMAMJJASOND	2018 JFMAMJJ
BGS ZONE	E 1 AREA 6 - MAT SLAB	14	19-Oct-13 A	15-Nov-13							
	5 MAT SLAB CURE FOR THERMAL CONTROL - Z1 A6	14	19-Oct-13 A	01-Nov-13	-	MA	AT SLAB CURE FOR THER	RMAL CONTROL - Z1 A6			
■ BGS06-115	0 MAT SLAB CURE FOR STRENGTH - Z1 A6	20	19-Oct-13 A	07-Nov-13	┧ 👃	M	AT SLAB CURE FOR STRE	ENGTH - Z1 A6			
■ BGS06-112	0 BRACING REMOVAL - LEVEL D - BBII - Z1 A6 (WD 7-9 / WD 63-65) (was BG-BB56120 w/A5)	5	08-Nov-13	15-Nov-13		. в	RACING REMOVAL - LEVE	EL D - BBII - Z1 A6 (WD 7-9	/ / WD 63-65) (was BG-BB	6120 w/A5)	
BGS ZONE	E 1 AREA 6 - WALLS/COLUMNS (TRAIN PLATFORM)	130	18-Nov-13	28-May-14				·		·	
BGS ZONE	1 AREA 6 - WALLS (TRAIN PLATFORM)	130	18-Nov-13	28-May-14							
■ BGS06-40	00 WALL WATERPROOFING - 1ST LIFT - Z1 A6	6	18-Nov-13	25-Nov-13		. V	WALL WATERPROOFING	- 1ST LIFT - Z1 A6			
■ BGS06-40	10 WALL REBAR - 1ST LIFT (1 OF 2) - Z1 A6 (WD 7-9)	2	26-Nov-13	27-Nov-13		ΙV	WALL REBAR - 1ST LIFT (1	I OF 2) - Z1 A6 (WD 7-9)			
■ BGS06-403	20 WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A6 (WD 63-65)	2	02-Dec-13	03-Dec-13		1	WALL REBAR - 1ST LIFT (2 OF 2) - Z1 A6 (WD 63-65)		
■ BGS06-403	30 FORM - 1ST LIFT - 1ST SECTION - Z1 A6	6	04-Dec-13	10-Dec-13		0	FORM - 1ST LIFT - 1ST SE	ECTION - Z1 A6			
■ BGS06-40	60 FORM - 1ST LIFT - 2ND SECTION - Z1 A6	6	04-Dec-13	10-Dec-13		1	FORM - 1ST LIFT - 2ND S	ECTION - Z1 A6			
■ BGS06-40	40 POUR - 1ST LIFT - 1ST SECTION - Z1 A6	2	11-Dec-13	12-Dec-13		ı	POUR - 1ST LIFT - 1ST S	ECTION - Z1 A6			
■ BGS06-40°	70 POUR - 1ST LIFT - 2ND SECTION - Z1 A6	2	11-Dec-13	12-Dec-13		T	POUR - 1ST LIFT - 2ND S	ECTION - Z1 A6			
■ BGS06-40	50 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z1 A6	4	13-Dec-13	18-Dec-13		1	CURE & STRIP - 1ST LIF	Γ - 1ST SECTION - Z1 A6			
■ BGS06-40	80 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z1 A6	4	13-Dec-13	18-Dec-13		1	CURE & STRIP - 1ST LIF	Γ - 2ND SECTION - Z1 A6			
■ BGS06-42	00 CURE - 1ST LIFT - 2ND SECTION - Z1 A6	21	13-Dec-13	02-Jan-14			CURE - 1ST LIFT - 2ND	SECTION - Z1 A6			
■ BGS06-40	90 REBRACE TRAIN PLATFORM LEVEL - BBII - Z1 A6 (was BG-BB56320 w/A5)	5	19-Dec-13	26-Dec-13		0	REBRACE TRAIN PLATE	ORM LEVEL - BBII - Z1 A6	(was BG-BB56320 w/A5)		
■ BGS06-41	00 BRACING REMOVAL - LEVEL C - BBII - Z1 A6 (WC 7-9 / WC 63-65) (was BG-BB56220 w/A5)	5	03-Jan-14	09-Jan-14		ľ	BRACING REMOVAL - L	EVEL C - BBII - Z1 A6 (W	7-9 / WC 63-65) (was BG	BB56220 w/A5)	
■ BGS06-41	10 WALL WATERPROOFING - 2ND LIFT - Z1 A6	8	10-Jan-14	22-Jan-14		1	■ WALL WATERPROOF	NG - 2ND LIFT - Z1 A6			
■ BGS06-41	20 WALL REBAR - 2ND LIFT (1 OF 2) - Z1 A6 (WC 7-9)	2	23-Jan-14	24-Jan-14			I WALL REBAR - 2ND L	FT (1 OF 2) - Z1 A6 (WC 7-	9)		
■ BGS06-41	30 WALL REBAR - 2ND LIFT (2 OF 2) - Z1 A6 (WC 63-65)	2	27-Jan-14	28-Jan-14			I WALL REBAR - 2ND L	IFT (2 OF 2) - Z1 A6 (WC 6	3-65)		
■ BGS06-41	40 FORM - 2ND LIFT - 1ST SECTION - Z1 A6	6	29-Jan-14	05-Feb-14			FORM - 2ND LIFT - 1	ST SECTION - Z1 A6			
■ BGS06-41	70 FORM - 2ND LIFT - 2ND SECTION - Z1 A6	6	29-Jan-14	05-Feb-14			FORM - 2ND LIFT - 2N	ID SECTION - Z1 A6			
■ BGS06-41	50 POUR - 2ND LIFT - 1ST SECTION - Z1 A6	2	06-Feb-14	07-Feb-14			POUR - 2ND LIFT - 1	ST SECTION - Z1 A6			
■ BGS06-41	80 POUR - 2ND LIFT - 2ND SECTION - Z1 A6	2	06-Feb-14	07-Feb-14			POUR - 2ND LIFT - 2N	ND SECTION - Z1 A6			
■ BGS06-41	60 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z1 A6	4	10-Feb-14	13-Feb-14			I CURE & STRIP - 2ND	LIFT - 1ST SECTION - Z1	A6		
■ BGS06-41	90 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z1 A6	4	10-Feb-14	13-Feb-14			I CURE & STRIP - 2ND	LIFT - 2ND SECTION - Z1	A6		
■ BGS06-42	10 REMOVE REBRACE STRUT - LEVEL RB - Z1 A6	10	13-May-14	28-May-14			■ REMOVE RE	BRACE STRUT - LEVEL RE	3 - Z1 A6		
BGS ZONE	1 AREA 6 - COLUMNS (TRAIN PLATFORM)	38	26-Nov-13	23-Jan-14							
■ BGS06-45	00 COLUMN REBAR - Z1 A6	8	26-Nov-13	09-Dec-13	_ 1		COLUMN REBAR - Z1 A6				
■ BGS06-45	10 COLUMN ANCHOR BOLTS - Z1 A6	10	27-Dec-13	10-Jan-14		P	COLUMN ANCHOR BOL	_TS - Z1 A6			
■ BGS06-45	20 COLUMN FORM AND POUR - Z1 A6	8	13-Jan-14	23-Jan-14			COLUMN FORM AND	POUR - Z1 A6			
BGS ZONE	E 1 AREA 6 - LOWER CONCOURSE SLAB	61	14-Feb-14	12-May-14							
■ BGS06-500	0 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z1 A6	5	14-Feb-14	21-Feb-14			I FORM AND SHORE	- LC DECK A & WALL (1 O	F 2) - Z1 A6		
■ BGS06-501	0 REBAR - LC DECK A (1 OF 2) - Z1 A6	5	24-Feb-14	28-Feb-14			I REBAR - LC DECK	A (1 OF 2) - Z1 A6			
■ BGS06-502	0 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z1 A6			28-Feb-14			I FORM AND SHORE	- LC DECK A & WALL (2 C	F 2) - Z1 A6		
■ BGS06-503	FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z1 A6	5	03-Mar-14	07-Mar-14			I FORM AND SHORE	- LC DECK B & WALL (1 ()F 2) - Z1 A6		
■ BGS06-504	0 MEP - LC DECK A - Z1 A6		03-Mar-14	14-Mar-14			■ MEP - LC DECK A	Z1 A6			
■ BGS06-505	0 REBAR - LC DECK A (2 OF 2) - Z1 A6	10	03-Mar-14	14-Mar-14			REBAR - LC DECK	A (2 OF 2) - Z1 A6			
■ BGS06-506	0 REBAR - LC DECK B (1 OF 2) - Z1 A6	5	10-Mar-14	14-Mar-14			I REBAR - LC DECK	B (1 OF 2) - Z1 A6			
■ BGS06-507	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z1 A6	5	10-Mar-14	14-Mar-14			I FORM AND SHORE	E - LC DECK B & WALL (2	OF 2) - Z1 A6		
	0 POUR - LC DECK A & WALL - Z1 A6	1	17-Mar-14	17-Mar-14			I POUR - LC DECK				
■ BGS06-509	0 MEP - LC DECK B - Z1 A6	10	18-Mar-14	31-Mar-14	_		■ MEP - LC DECK B	- Z1 A6			
■ BGS06-510	0 REBAR - LC DECK B (2 OF 2) - Z1 A6	10	18-Mar-14	31-Mar-14			REBAR - LC DEC	K B (2 OF 2) - Z1 A6			
■ BGS06-511	0 CURE LC - DECK A - Z1 A6	21	18-Mar-14	07-Apr-14			■ CURE LC - DECK	A - Z1 A6			
■ BGS06-512	0 POUR - LC DECK B & WALL - Z1 A6	1	01-Apr-14	01-Apr-14			I POUR - LC DECK				
■ BGS06-513	0 CURE LC - DECK B - Z1 A6	21	02-Apr-14	22-Apr-14			CURE LC - DEC	KB - Z1 A6			

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

										JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish			2014	2015	2016	2017	2018
20000				1 1 1 1 1 1	ASS	ND					
	STRIP LC - DECK A - Z1 A6		08-Apr-14	25-Apr-14	_		STRIP LC - DEC				
	STRIP LC - DECK B - Z1 A6		23-Apr-14	12-May-14			STRIP LC - DE	CK B - Z1 A6			
	1 AREA 6 - WALLS (LOWER CONCOURSE)		23-Apr-14	30-Apr-15							
	BRACING REMOVAL - LEVEL B - BBII - Z1 A6 (WB 7-9 / WB 63-65) (was BG-BB56420 w/A5)	5	23-Apr-14	29-Apr-14					Z1 A6 (WB 7-9 / WB 63-65) (was BG-BB56420 w/A5)	
	WALL WATERPROOFING - 3RD LIFT - Z1 A6	7	30-Apr-14	08-May-14				PROOFING - 3RD LIFT - Z			
	WALL REBAR (PHASE 1 OF 2) - Z1 A6 (WB 7-9)	2	09-May-14	12-May-14	_			(PHASE 1 OF 2) - Z1 A6 (,		
	WALL REBAR (PHASE 2 OF 2) - Z1 A6 (WB 63-65)	2	13-May-14	14-May-14				(PHASE 2 OF 2) - Z1 A6 (WB 63-65)		
	FORM - 1ST SECTION - Z1 A6	6	-	21-May-14	_		FORM - 1ST S				
	FORM - 2ND SECTION - Z1 A6	10	-	27-May-14	_		FORM - 2ND S				
	POUR - 1ST SECTION - Z1 A6	2	22-May-14	23-May-14			l POUR - 1ST S				
	CURE & STRIP - 1ST SECTION - Z1 A6	4	-	-	_			IP - 1ST SECTION - Z1 A6	5		
	POUR - 2ND SECTION - Z1 A6	2	28-May-14	-	_		-	SECTION - Z1 A6			
	CURE & STRIP - 2ND SECTION - Z1 A6	4	+	_	_			IP - 2ND SECTION - Z1 A	6		
	CURE - 2ND SECTION - Z1 A6	21	30-May-14	19-Jun-14				SECTION - Z1 A6			
	REBRACE LOWER CONCOURSE LEVEL - BBII - Z1 A6 (was BG-BB56620 w/A5)	5	04-Jun-14	10-Jun-14					/EL - BBII - Z1 A6 (was BG-	· · · · · · · · · · · · · · · · · · ·	
	BRACING REMOVAL - LEVEL A - BBII - Z1 A6 (was BG-BB56520 w/A5)	5	12-Nov-14	18-Nov-14			□ B		VEL A - BBII - Z1 A6 (was B	*	
	REMOVE REBRACE STRUT - LEVEL RA - Z1 A6	10		30-Apr-15				■ REMOVE REB	RACE STRUT - LEVEL RA	- Z1 A6	
BGS ZONE	I - APPURTENANCES	431	13-May-14	10-Feb-16							
■ BG-116200	ELEVATOR, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZONE 1	20	13-May-14	11-Jun-14			ELEVATOR,	MECHANICAL AND STAI	R PLATFORMS TRAIN BOX	X - ZONE 1	
■ BG-116100	FORM AND PLACE PADS AND CURBS TRAIN BOX - ZONE 1	20	13-May-14	11-Jun-14			FORM AND F	PLACE PADS AND CURB	S TRAIN BOX - ZONE 1		
■ BS-132000	FORM AND POUR GRAY WATER RETENTION TANK (TRAIN PLATFORM ZONE 1)	20	13-May-14	11-Jun-14			FORM AND F	POUR GRAY WATER RE	TENTION TANK (TRAIN PL	ATFORM ZONE 1)	
■ BG-116000	FORM AND POUR FIRE WATER TANK TRAIN BOX - ZONE 1	20	29-Oct-14	25-Nov-14				ORM AND POUR FIRE V	VATER TANK TRAIN BOX -	ZONE 1	
■ BG-132200	HOIST #1 BLOCKOUT POUR BACK	5	04-Feb-16	10-Feb-16					I HOIST #1 BLOCKOU	T POUR BACK	
BGS ZONE 2	(AREAS 7-9 / BUILDING LINES 10.5 TO 18.5)	565	24-Oct-13 A	10-Feb-16							
BGS ZONE	2 AREA 7 (BUILDING LINES 10.5-13.5)	361	28-Oct-13	14-Apr-15							
□ BGS ZONE	2 AREA 7 - MAT SLAB	5	28-Oct-13	01-Nov-13							
	BRACING REMOVAL - LEVEL D - BBII - Z2 A7 (WD 9-12 / WD 60-63) (was BG-BB48920)	5	28-Oct-13	01-Nov-13	_ <u>,</u>	l BF	RACING REMOVAL - LEVE	L D - BBII - Z2 A7 (WD 9-	12 / WD 60-63) (was BG-BB	48920)	
BGS ZONE	2 AREA 7 - WALLS/COLUMNS (TRAIN PLATFORM)	144	04-Nov-13	04-Jun-14							
	AREA 7 - WALLS (TRAIN PLATFORM)	144	04-Nov-13	04-Jun-14							
BGS07-400	WALL WATERPROOFING - 1ST LIFT - Z2 A7	8	04-Nov-13	14-Nov-13		■ W	/ALL WATERPROOFING -	1ST LIFT - Z2 A7			
■ BGS07-401	WALL REBAR - 1ST LIFT (1 OF 2) - Z2 A7 (WD 9-12)	2	15-Nov-13	18-Nov-13		۱V	VALL REBAR - 1ST LIFT (1	OF 2) - Z2 A7 (WD 9-12)			
■ BGS07-402	WALL REBAR - 1ST LIFT (2 OF 2) - Z2 A7 (WD 60-63)	2	19-Nov-13	20-Nov-13		ΙV	VALL REBAR - 1ST LIFT (2	OF 2) - Z2 A7 (WD 60-63	(3)		
■ BGS07-403	FORM - 1ST LIFT - 1ST SECTION - Z2 A7	9	21-Nov-13	05-Dec-13		•	FORM - 1ST LIFT - 1ST SE	CTION - Z2 A7			
■ BGS07-406	FORM - 1ST LIFT - 2ND SECTION - Z2 A7	9	21-Nov-13	05-Dec-13			FORM - 1ST LIFT - 2ND SE	ECTION - Z2 A7			
■ BGS07-404	POUR - 1ST LIFT - 1ST SECTION - Z2 A7	3	06-Dec-13	10-Dec-13		ı	POUR - 1ST LIFT - 1ST SE	ECTION - Z2 A7			
■ BGS07-407	POUR - 1ST LIFT - 2ND SECTION - Z2 A7	3	06-Dec-13	10-Dec-13		ı	POUR - 1ST LIFT - 2ND SI	ECTION - Z2 A7			
■ BGS07-405	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z2 A7	6	11-Dec-13	18-Dec-13		0	CURE & STRIP - 1ST LIF	T - 1ST SECTION - Z2 A7			
■ BGS07-408	CURE & STRIP - 1ST LIFT - 2ND SECTION - Z2 A7	6	11-Dec-13	18-Dec-13		0	CURE & STRIP - 1ST LIF	T - 2ND SECTION - Z2 A7	,		
■ BGS07-420	CURE - 1ST LIFT - 2ND SECTION - Z2 A7	21	11-Dec-13	31-Dec-13			CURE - 1ST LIFT - 2ND	SECTION - Z2 A7			
■ BGS07-409	REBRACE TRAIN PLATFORM LEVEL - BBII - Z2 A7 (was BG-BB49120)	5	19-Dec-13	26-Dec-13		•	REBRACE TRAIN PLATE	ORM LEVEL - BBII - Z2 A	7 (was BG-BB49120)		
■ BGS07-410	BRACING REMOVAL - LEVEL C - BBII - Z2 A7 (WC 60-63 / WC 9-12) (was BG-BB49020)	5	02-Jan-14	08-Jan-14			BRACING REMOVAL - L	EVEL C - BBII - Z2 A7 (W	/C 60-63 / WC 9-12) (was B	G-BB49020)	
■ BGS07-411	WALL WATERPROOFING - 2ND LIFT - Z2 A7	8	09-Jan-14	21-Jan-14			■ WALL WATERPROOF	NG - 2ND LIFT - Z2 A7			
■ BGS07-412	WALL REBAR - 2ND LIFT (1 OF 2) - Z2 A7 (WC 9-12)	2	22-Jan-14	23-Jan-14			I WALL REBAR - 2ND LI	FT (1 OF 2) - Z2 A7 (WC 9	9-12)		
■ BGS07-413	WALL REBAR - 2ND LIFT (2 OF 2) - Z2 A7 (WC 60-63)	2	24-Jan-14	27-Jan-14			I WALL REBAR - 2ND L	IFT (2 OF 2) - Z2 A7 (WC	60-63)		
■ BGS07-417	FORM - 2ND LIFT - 2ND SECTION - Z2 A7	9	28-Jan-14	07-Feb-14			FORM - 2ND LIFT - 2N	ND SECTION - Z2 A7			
■ BGS07-414	FORM - 2ND LIFT - 1ST SECTION - Z2 A7	9	28-Jan-14	07-Feb-14			FORM - 2ND LIFT - 15	ST SECTION - Z2 A7			

Page: 14 of 86

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

								JOINT VENTU	RE
Activity ID	Activity Name	OD	Start	Finish	1	2014	2015	2016 2017	2018
					ASC		JFMAMJJASPND		DJFMAMJJ
■ BGS	07-4180 POUR - 2ND LIFT - 2ND SECTION - Z2 A7	3	10-Feb-14	12-Feb-14		I POUR - 2ND LIFT - 2	ND SECTION - Z2 A7		
■ BGS	07-4150 POUR - 2ND LIFT - 1ST SECTION - Z2 A7	3	10-Feb-14	12-Feb-14		I POUR - 2ND LIFT - 1	ST SECTION - Z2 A7		
■ BGS	07-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z2 A7	6	13-Feb-14	21-Feb-14		CURE & STRIP - 2N	D LIFT - 2ND SECTION - Z	2 A7	
■ BGS	07-4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z2 A7	6	13-Feb-14	21-Feb-14		CURE & STRIP - 2N	D LIFT - 1ST SECTION - Z2	2 A7	
■ BGS	07-4210 REMOVE REBRACE STRUT - LEVEL RB - Z2 A7	10	20-May-14	04-Jun-14		■ REMOVE RE	BRACE STRUT - LEVEL R	B - Z2 A7	
BGS 2	ZONE 2 AREA 7 - COLUMNS (TRAIN PLATFORM)	45	15-Nov-13	23-Jan-14					
■ BGS	07-4500 COLUMN REBAR - Z2 A7	8	15-Nov-13	26-Nov-13		COLUMN REBAR - Z2 A7			
■ BGS	07-4510 COLUMN ANCHOR BOLTS - Z2 A7	10	27-Dec-13	10-Jan-14		COLUMN ANCHOR BO	LTS - Z2 A7		
■ BGS	07-4520 COLUMN FORM AND POUR - Z2 A7	8	13-Jan-14	23-Jan-14		COLUMN FORM AND	POUR - Z2 A7		
₽ BGS	ZONE 2 AREA 7 - LOWER CONCOURSE SLAB	61	24-Feb-14	19-May-14					
■ BGS0	7-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z2 A7	5	24-Feb-14	28-Feb-14		I FORM AND SHORE	- LC DECK A & WALL (1 C)F 2) - Z2 A7	
■ BGS0	7-5010 REBAR - LC DECK A (1 OF 2) - Z2 A7	5	03-Mar-14	07-Mar-14			A (1 OF 2) - Z2 A7		
■ BGS0	7-5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z2 A7	5	03-Mar-14	07-Mar-14		■ FORM AND SHORE	- LC DECK A & WALL (2 (DF 2) - Z2 A7	
BGS0	7-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z2 A7	5	10-Mar-14	14-Mar-14			E - LC DECK B & WALL (1		
	7-5040 MEP - LC DECK A - Z2 A7	10	10-Mar-14	21-Mar-14		■ MEP - LC DECK A	- Z2 A7	,	
	7-5050 REBAR - LC DECK A (2 OF 2) - Z2 A7	10	10-Mar-14	21-Mar-14		REBAR - LC DECH	(A (2 OF 2) - Z2 A7		
	7-5060 REBAR - LC DECK B (1 OF 2) - Z2 A7	5	17-Mar-14	21-Mar-14		I REBAR - LC DECH	, ,		
	7-5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z2 A7	5	17-Mar-14	21-Mar-14			E - LC DECK B & WALL (2	OF 2) - Z2 A7	
	7-5080 POUR - LC DECK A & WALL - Z2 A7	1	24-Mar-14	24-Mar-14		POUR - LC DECK	,	,	
	7-5090 MEP - LC DECK B - Z2 A7	10		07-Apr-14		■ MEP - LC DECK			
	7-5100 REBAR - LC DECK B (2 OF 2) - Z2 A7	10	25-Mar-14	07-Apr-14		■ REBAR - LC DEC			
	7-5110 CURE LC - DECK A - Z2 A7			14-Apr-14		CURE LC - DECI	, , ,		
	7-5120 POUR - LC DECK B & WALL - Z2 A7	1	08-Apr-14	08-Apr-14		I POUR - LC DECK			
	7-5130 CURE LC - DECK B - Z2 A7	21	09-Apr-14	29-Apr-14		CURE LC - DEC			
	7-5140 STRIP LC - DECK A - Z2 A7		15-Apr-14	02-May-14		STRIP LC - DEG			
	7-5150 STRIP LC - DECK B - Z2 A7		· ·	19-May-14		■ STRIP LC - DE			
	ZONE 2 AREA 7 - WALLS (LOWER CONCOURSE)		30-Apr-14	14-Apr-15					
	7-6000 BRACING REMOVAL - LEVEL B - BBII - Z2 A7 (WB 9-12 / WB 60-63) (was BG-BB49220)		30-Apr-14	06-May-14		■ BRACING REM	 OVAL-LEVELB-BRIL-7	2 A7 (WB 9-12 / WB 60-63) (was BG-BB49220)	
	7-6010 WALL WATERPROOFING - 3RD LIFT - Z2 A7		07-May-14	-	-		PROOFING - 3RD LIFT - Z		
	7-6020 WALL REBAR (PHASE 1 OF 2) - Z2 A7 (WB 9-12)		16-May-14	-			(PHASE 1 OF 2) - Z2 A7 (V		
	7-6030 WALL REBAR (PHASE 2 OF 2) - Z2 A7 (WB 60-63)		20-May-14	<u> </u>	-		(PHASE 2 OF 2) - Z2 A7 (V		
	7-6040 FORM - 1ST SECTION - Z2 A7		22-May-14	•	-		SECTION - Z2 A7	WB 00 03)	
	7-6070 FORM - 2ND SECTION - Z2 A7	-	-	05-Jun-14	-		SECTION - Z2 A7		
	7-6050 POUR - 1ST SECTION - Z2 A7	-	06-Jun-14	10-Jun-14	-		SECTION - Z2 A7		
	7-6080 POUR - 2ND SECTION - 22 A7	3	06-Jun-14	10-Jun-14			SECTION - Z2 A7		
	7-6060 CURE & STRIP - 1ST SECTION - Z2 A7		11-Jun-14	18-Jun-14	-		RIP - 1ST SECTION - Z2 A	7	
	7-6090 CURE & STRIP - 2ND SECTION - Z2 A7		11-Jun-14	18-Jun-14		_	RIP - 2ND SECTION - Z2 A		
	7-6120 CURE - 2ND SECTION - 22 A7		11-Jun-14	01-Jul-14	-		D SECTION - Z2 A7		
	7-6100 REBRACE LOWER CONCOURSE LEVEL - BBII - Z2 A7 (was BG-BB49420)	5		25-Jun-14		_		VEL - BBII - Z2 A7 (was BG-BB49420)	
	7-6110 BRACING REMOVAL - LEVEL A - BBII - Z2 A7 (was BG-BB49420)	5	19-Jun-14	-				EL A - BBII - Z2 A7 (was BG-BB49320)	
	7-6130 REMOVE REBRACE STRUT - LEVEL RA - Z2 A7	-	01-Apr-15		-	" '		ACE STRUT - LEVEL RA - Z2 A7	
			24-Oct-13 A				- KLWOVE KLDKA	OF STRUCT LEVELING - 22 AT	
	ONE 2 AREA 8 (BUILDING LINES 13.5-16.25)	,		· · · · · · · · · · · · · · · · · · ·					
	ZONE 2 AREA 8 - MAT SLAB		24-Oct-13 A						
	8-1070 INSTALL REBAR - UPPER MAT - Z2 A8		24-Oct-13 A			I INSTALL REBAR - UPPER M	IA I - Z2 A8		
	8-1100 MAT POUR - Z2 A8		09-Nov-13			MAT POUR - Z2 A8			
■ BGS0	8-1155 MAT SLAB CURE FOR THERMAL CONTROL - Z2 A8	14	09-Nov-13	22-Nov-13		MAT SLAB CURE FOR THI	RMAL CONTROL - Z2 A8		

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

	1		La	1		JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish		2014 2015 2016 2017 2018
D0000 //=	MAT OLAR CURE FOR OTRENOTUL 70 AC	00	00.11 12	00.11 12		NDJFMAMJJASNDJFMAMJJASNDJFMAMJJASNDJFMAMJJASNDJFMAMJJASNDJFMAMJJ
	MAT SLAB CURE FOR STRENGTH - Z2 A8		09-Nov-13	28-Nov-13		MAT SLAB CURE FOR STRENGTH - Z2 A8
	STRIP EDGE FORM - Z2 A8		12-Nov-13			STRIP EDGE FORM - Z2 A8
	BRACING REMOVAL - LEVEL D - BBII - Z2 A8 (WD 12-15 / WD 57-60) (was BG-BB49520)			06-Dec-13		BRACING REMOVAL - LEVEL D - BBII - Z2 A8 (WD 12-15 / WD 57-60) (was BG-BB49520)
	2 AREA 8 - WALLS/COLUMNS (TRAIN PLATFORM)	146	09-Dec-13			
	2 AREA 8 - COLUMNS (TRAIN PLATFORM)	26	19-Dec-13	28-Jan-14		
■ BGS08-450	0 COLUMN REBAR - Z2 A8	8	19-Dec-13	31-Dec-13		COLUMN REBAR - Z2 48
■ BGS08-45 ²	0 COLUMN ANCHOR BOLTS - Z2 A8	10	02-Jan-14	15-Jan-14		COLUMN ANCHOR BOLTS - Z2 A8
	0 COLUMN FORM AND POUR - Z2 A8	8	16-Jan-14	28-Jan-14		COLUMN FORM AND POUR - Z2 A8
BGS ZONE	2 AREA 8 - WALLS (TRAIN PLATFORM)	146	09-Dec-13	09-Jul-14		
■ BGS08-400	0 WALL WATERPROOFING - 1ST LIFT - Z2 A8	8	09-Dec-13	18-Dec-13		■ WALL WATERPROOFING - 1ST LIFT - Z2 A8
■ BGS08-40 ²	0 WALL REBAR - 1ST LIFT (1 OF 2) - Z2 A8 (WD 12-15)	2	19-Dec-13	20-Dec-13		WALL REBAR - 1ST LIFT (1 OF 2) - Z2 A8 (WD 12-15)
■ BGS08-402	0 WALL REBAR - 1ST LIFT (2 OF 2) - Z2 A8 (WD 57-60)	2	23-Dec-13	24-Dec-13		I WALL REBAR - 1ST LIFT (2 OF 2) - Z2 A8 (WD 57-60)
■ BGS08-403	0 FORM - 1ST LIFT - 1ST SECTION - Z2 A8	9	26-Dec-13	08-Jan-14		FORM - 1ST LIFT - 1ST SECTION - Z2 A8
■ BGS08-406	0 FORM - 1ST LIFT - 2ND SECTION - Z2 A8	9	26-Dec-13	08-Jan-14		FORM - 1ST LIFT - 2ND SECTION - Z2 A8
■ BGS08-404	0 POUR - 1ST LIFT - 1ST SECTION - Z2 A8	3	09-Jan-14	13-Jan-14		POUR - 1ST LIFT - 1ST SECTION - Z2 A8
■ BGS08-407	0 POUR - 1ST LIFT - 2ND SECTION - Z2 A8	3	09-Jan-14	13-Jan-14		POUR - 1ST LIFT - 2ND SECTION - Z2 A8
■ BGS08-405	0 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z2 A8	6	14-Jan-14	22-Jan-14		CURE & STRIP - 1ST LIFT - 1ST SECTION - Z2 A8
■ BGS08-408	0 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z2 A8	6	14-Jan-14	22-Jan-14		■ CURE & STRIP - 1ST LIFT - 2ND SECTION - Z2 A8
■ BGS08-420	0 CURE - 1ST LIFT - 2ND SECTION - Z2 A8	21	14-Jan-14	03-Feb-14		■ CURE - 1ST LIFT - 2ND SECTION - Z2 A8
■ BGS08-409	0 REBRACE TRAIN PLATFORM LEVEL - BBII - Z2 A8 (was BG-BB49720)	5	23-Jan-14	29-Jan-14		REBRACE TRAIN PLATFORM LEVEL - BBII - Z2 A8 (was BG-BB49720)
■ BGS08-410	0 BRACING REMOVAL - LEVEL C - BBII - Z2 A8 (WC 12-15 / WC 57-60) (was BG-BB49620)	5	04-Feb-14	10-Feb-14		■ BRACING REMOVAL - LEVEL C - BBII - Z2 A8 (WC 12-15 / WC 57-60) (was BG-BB49620)
■ BGS08-41	0 WALL WATERPROOFING - 2ND LIFT - Z2 A8	8	11-Feb-14	21-Feb-14		■ WALL WATERPROOFING - 2ND LIFT - Z2 A8
■ BGS08-412	0 WALL REBAR - 2ND LIFT (1 OF 2) - Z2 A8 (WC 12-15)	2	24-Feb-14	25-Feb-14		I WALL REBAR - 2ND LIFT (1 OF 2) - Z2 A8 (WC 12-15)
■ BGS08-413	0 WALL REBAR - 2ND LIFT (2 OF 2) - Z2 A8 (WC 57-60)	2	26-Feb-14	27-Feb-14		I WALL REBAR - 2ND LIFT (2 OF 2) - Z2 A8 (WC 57-60)
■ BGS08-414	0 FORM - 2ND LIFT - 1ST SECTION - Z2 A8	9	28-Feb-14	12-Mar-14		FORM - 2ND LIFT - 1ST SECTION - Z2 A8
■ BGS08-417	0 FORM - 2ND LIFT - 2ND SECTION - Z2 A8	9	28-Feb-14	12-Mar-14		FORM - 2ND LIFT - 2ND SECTION - Z2 A8
■ BGS08-415	0 POUR - 2ND LIFT - 1ST SECTION - Z2 A8	3	13-Mar-14	17-Mar-14		I POUR - 2ND LIFT - 1ST SECTION - Z2 A8
■ BGS08-418	0 POUR - 2ND LIFT - 2ND SECTION - Z2 A8	3	13-Mar-14	17-Mar-14		I POUR - 2ND LIFT - 2ND SECTION - Z2 A8
■ BGS08-416	0 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z2 A8	4	18-Mar-14	21-Mar-14		CURE & STRIP - 2ND LIFT - 1ST SECTION - Z2 A8
■ BGS08-419	0 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z2 A8	4	18-Mar-14	21-Mar-14		CURE & STRIP - 2ND LIFT - 2ND SECTION - Z2 A8
■ BGS08-42	0 REMOVE REBRACE STRUT - LEVEL RB - Z2 A8	10	25-Jun-14	09-Jul-14		REMOVE REBRACE STRUT - LEVEL RB - Z2 A8
	2 AREA 8 - LOWER CONCOURSE SLAB		24-Mar-14		i	
	FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z2 A8		24-Mar-14			I FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z2 A8
	FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z2 A8			04-Apr-14		FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z2 A8
	REBAR - LC DECK A (1 OF 2) - Z2 A8		08-Apr-14	14-Apr-14		REBAR - LC DECK A (1 OF 2) - Z2 A8
	FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z2 A8		15-Apr-14	21-Apr-14		FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z2 A8
	MEP - LC DECK A - Z2 A8		15-Apr-14	28-Apr-14	-	MEP - LC DECK A - Z2 A8
	REBAR - LC DECK A (2 OF 2) - Z2 A8		15-Apr-14	28-Apr-14	-	REBAR - LC DECK A (2 OF 2) - Z2 A8
	REBAR - LC DECK B (1 OF 2) - Z2 A8		22-Apr-14	28-Apr-14		REBAR - LC DECK A (2 OF 2) - Z2 A8
	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z2 A8		22-Apr-14	28-Apr-14	-	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z2 A8
	` `		·	·	-	POUR - LC DECK A & WALL - Z2 A8
	POUR - LC DECK A & WALL - Z2 A8		29-Apr-14	29-Apr-14	-	
	MEP - LC DECK B - Z2 A8		30-Apr-14	13-May-14		MEP - LC DECK B - Z2 A8
	REBAR - LC DECK B (2 OF 2) - Z2 A8		30-Apr-14	13-May-14		REBAR - LC DECK B (2 OF 2) - Z2 A8
	CURE LC - DECK A - Z2 A8		30-Apr-14	20-May-14		CURE LC - DECK A - Z2 A8
	POUR - LC DECK B & WALL - Z2 A8		14-May-14	· -	-	I POUR - LC DECK B & WALL - Z2 A8
	CURE LC - DECK B - Z2 A8		15-May-14	-		CURE LC - DECK B - Z2 A8
■ BGS08-5140	STRIP LC - DECK A - Z2 A8	14	21-May-14	11-Jun-14		■ STRIP LC - ФЕСК A - Z2 A8

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

A ativity (ID	A stirritu Nama		Ctont	Timinh	1		2044	2040	JOINT VENTURI	
Activity ID	Activity Name	OD	Start	Finish	AISID	NC	2014 2015 JFMAMJJASPNDJFMAMJJASPND	2016 JIFMAMJIJASOND		2018
■ BGS08-5	150 STRIP LC - DECK B - Z2 A8	14	05-Jun-14	24-Jun-14	1/19/3		■ STRIP LC - DECK B - Z2 A8			
	NE 2 AREA 8 - WALLS (LOWER CONCOURSE)			07-May-15						
	000 BRACING REMOVAL - LEVEL B - BBII - Z2 A8 (WB 12-15 / WB 57-60) (was BG-BB49820)	<u> </u>		11-Jun-14			BRACING REMOVAL - LEVEL B - BBII -	72 A8 (WB 12-15 / WB 57	'-60) (was BG-BB49820)	
	010 WALL WATERPROOFING - 3RD LIFT - Z2 A8	7	12-Jun-14	20-Jun-14	-		■ WALL WATERPROOFING - 3RD LIFT -	•	(1140 20 22 10020)	
	020 WALL REBAR (PHASE 1 OF 2) - Z2 A8 (WB 12-15)	2	23-Jun-14	24-Jun-14	-		I WALL REBAR (PHASE 1 OF 2) - Z2 A8	-		
	030 WALL REBAR (PHASE 2 OF 2) - Z2 A8 (WB 57-60)		25-Jun-14	26-Jun-14	-		WALL REBAR (PHASE 2 OF 2) - Z2 A8	,		
	040 FORM - 1ST SECTION - Z2 A8		27-Jun-14	10-Jul-14			■ FORM - 1ST SECTION - Z2 A8	()		
	070 FORM - 2ND SECTION - Z2 A8		27-Jun-14	10-Jul-14	-		FORM - 2ND SECTION - Z2 A8			
	050 POUR - 1ST SECTION - Z2 A8	-	11-Jul-14	15-Jul-14	-		POUR - 1\$T SECTION - Z2 A8			
	080 POUR - 2ND SECTION - Z2 A8		11-Jul-14	15-Jul-14	-		POUR - 2ND SECTION - Z2 A8			
	060 CURE & STRIP - 1ST SECTION - Z2 A8	6	16-Jul-14	23-Jul-14	-		CURE & STRIP - 1ST SECTION - Z2	A8		
	090 CURE & STRIP - 2ND SECTION - Z2 A8	6	16-Jul-14	23-Jul-14			CURE & STRIP - 2ND SECTION - Z2			
■ BGS08-6	120 CURE - 2ND SECTION - Z2 A8	21	16-Jul-14	05-Aug-14	-		CURE - 2ND SECTION - Z2 A8			
BGS08-6	100 REBRACE LOWER CONCOURSE LEVEL - BBII - Z2 A8 (was BG-BB50020)	5	24-Jul-14	30-Jul-14	-		■ REBRACE LOWER CONCOURSE L	EVEL - BBII - Z2 A8 (was I	BG-BB50020)	
	110 BRACING REMOVAL - LEVEL A - BBII - Z2 A8 (was BG-BB49920)	5	26-Nov-14	04-Dec-14	-		■ BRACING REMOVAL - LEV	,	,	
	130 REMOVE REBRACE STRUT - LEVEL RA - Z2 A8	10	24-Apr-15	07-May-15	-			ACE STRUT - LEVEL RA	,	
BGS ZON	E 2 AREA 9 (BUILDING LINES 16.25-18.5)		<u> </u>	01-Jun-15						
	NE 2 AREA 9 - MAT SLAB		28-Oct-13	19-Dec-13						
	080 IN-SLAB MEP - Z2 A9	4	28-Oct-13	31-Oct-13		IN	-SLAB MEP - Z2 A9			
■ BGS09-1	090 EDGE FORM / EMBEDS - Z2 A9	8	28-Oct-13	06-Nov-13		ΒE	DGE FORM / EMBEDS - Z2 A9			
■ BGS09-1	070 INSTALL REBAR - UPPER MAT - Z2 A9	6	01-Nov-13	08-Nov-13	-	I [STALL REBAR - UPPER MAT - Z2 A9			
■ BGS09-1	100 MAT POUR - Z2 A9	2	23-Nov-13	24-Nov-13			MAT POUR - Z2 A9			
■ BGS09-1	155 MAT SLAB CURE FOR THERMAL CONTROL - Z2 A9	14	23-Nov-13	06-Dec-13		0	MAT SLAB CURE FOR THERMAL CONTROL - Z2 A9			
■ BGS09-1	150 MAT SLAB CURE FOR STRENGTH - Z2 A9	20	23-Nov-13	12-Dec-13			MAT SLAB CURE FOR STRENGTH - Z2 A9			
■ BGS09-1	110 STRIP EDGE FORM - Z2 A9	3	25-Nov-13	27-Nov-13		1.	STRIP EDGE FORM - Z2 A9			
■ BGS09-1	120 BRACING REMOVAL - LEVEL D - BBII - Z2 A9 (WD 15-17 / WD 55-57) (was BG-BB50120)	5	13-Dec-13	19-Dec-13		0	BRACING REMOVAL - LEVEL D - BBII - Z2 A9 (WD	5-17 / WD 55-57) (was BC	-BB50120)	
🔓 BGS ZO	NE 2 AREA 9 - WALLS/COLUMNS (TRAIN PLATFORM)	180	20-Dec-13	10-Sep-14						
BGS ZOI	IE 2 AREA 9 - WALLS (TRAIN PLATFORM)	180	20-Dec-13	10-Sep-14	_					
■ BGS09-	1000 WALL WATERPROOFING - 1ST LIFT - Z2 A9	8	20-Dec-13	02-Jan-14		ſ	WALL WATERPROOFING - 1ST LIFT - Z2 A9			
■ BGS09-	1010 WALL REBAR - 1ST LIFT (1 OF 2) - Z2 A9 (WD 15-17)	2	03-Jan-14	06-Jan-14			WALL REBAR - 1ST LIFT (1 OF 2) - Z2 A9 (WD 15-	17)		
■ BGS09-	1020 WALL REBAR - 1ST LIFT (2 OF 2) - Z2 A9 (WD 55-57)	2	07-Jan-14	08-Jan-14			WALL REBAR - 1ST LIFT (2 OF 2) - Z2 A9 (WD 55-	57)		
■ BGS09-	1030 FORM - 1ST LIFT - 1ST SECTION - Z2 A9	6	23-Jan-14	30-Jan-14			■ FORM - 1ST LIFT - 1ST SECTION - Z2 A9			
■ BGS09-	1060 FORM - 1ST LIFT - 2ND SECTION - Z2 A9	6	23-Jan-14	30-Jan-14			■ FORM - 1ST LIFT - 2ND SECTION - Z2 A9			
■ BGS09-	1040 POUR - 1ST LIFT - 1ST SECTION - Z2 A9	2	31-Jan-14	03-Feb-14			I POUR - 1ST LIFT - 1ST SECTION - Z2 A9			
■ BGS09-	1070 POUR - 1ST LIFT - 2ND SECTION - Z2 A9	2	31-Jan-14	03-Feb-14			I POUR - 1ST LIFT - 2ND SECTION - Z2 A9			
■ BGS09-	OSO CURE & STRIP - 1ST LIFT - 1ST SECTION - Z2 A9	4	04-Feb-14	07-Feb-14		L	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z2	\9		
■ BGS09-	1080 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z2 A9	4	04-Feb-14	07-Feb-14			CURE & STRIP - 1ST LIFT - 2ND SECTION - Z2	49		
■ BGS09-	1200 CURE - 1ST LIFT - 2ND SECTION - Z2 A9	21	04-Feb-14	24-Feb-14			CURE - 1ST LIFT - 2ND SECTION - Z2 A9			
■ BGS09-	1090 REBRACE TRAIN PLATFORM LEVEL - BBII - Z2 A9 (was BG-BB50320)	5	10-Feb-14	14-Feb-14			I REBRACE TRAIN PLATFORM LEVEL - BBII - Z2	A9 (was BG-BB50320)		
■ BGS09-	H100 BRACING REMOVAL - LEVEL C - BBII - Z2 A9 (WC 15-17 / WC 55-57) (was BG-BB50220)	5	25-Feb-14	03-Mar-14			■ BRACING REMOVAL - LEVEL C - BBII - Z2 A9	(WC 15-17 / WC 55-57) (w	as BG-BB50220)	
■ BGS09-	H110 WALL WATERPROOFING - 2ND LIFT - Z2 A9	8	04-Mar-14	13-Mar-14			■ WALL WATERPROOFING - 2ND LIFT - Z2 A9			
■ BGS09-	H120 WALL REBAR - 2ND LIFT (1 OF 2) - Z2 A9 (WC 15-17)	2	14-Mar-14	17-Mar-14			I WALL REBAR - 2ND LIFT (1 OF 2) - Z2 A9 (W	C 15-17)		
■ BGS09-	1130 WALL REBAR - 2ND LIFT (2 OF 2) - Z2 A9 (WC 55-57)	2	18-Mar-14	19-Mar-14			I WALL REBAR - 2ND LIFT (2 OF 2) - Z2 A9 (W	C 55-57)		
■ BGS09-	1140 FORM - 2ND LIFT - 1ST SECTION - Z2 A9	6	22-Mar-14	28-Mar-14			FORM - 2ND LIFT - 1ST SECTION - Z2 A9			
	1170 FORM - 2ND LIFT - 2ND SECTION - Z2 A9	-	22-Mar-14				FORM - 2ND LIFT - 2ND SECTION - Z2 A9			
■ BGS09-	1150 POUR - 2ND LIFT - 1ST SECTION - Z2 A9	2	29-Mar-14	31-Mar-14			I POUR - 2ND LIFT - 1ST SECTION - Z2 A9			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

								<u> </u>	JOINT VENTUR	E
tivity ID Activity Name	OD	Start	Finish	A SIO	NC	2014 J F M A M J J A S J N D ,	2015 	2016 D.J.F.M.A.M.J.J.A.S.D.N.D.	2017 	2018
■ BGS09-4180 POUR - 2ND LIFT - 2ND SECTION - Z2 A9	2	29-Mar-14	31-Mar-14				2ND SECTION - Z2 A9			
BGS09-4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z2 A9	4	01-Apr-14	04-Apr-14				ND LIFT - 1ST SECTION	I - Z2 A9		
BGS09-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z2 A9	4	01-Apr-14	04-Apr-14				ND LIFT - 2ND SECTION			
BGS09-4210 REMOVE REBRACE STRUT - LEVEL RB - Z2 A9	10	26-Aug-14	10-Sep-14				/E REBRACE STRUT - L			
BGS ZONE 2 AREA 9 - COLUMNS (TRAIN PLATFORM)	26	03-Jan-14	10-Feb-14							
BGS09-4500 COLUMN REBAR - Z2 A9	8	03-Jan-14	14-Jan-14			COLUMN REBAR - Z2 A	.9			
BGS09-4510 COLUMN ANCHOR BOLTS - Z2 A9	10	15-Jan-14	29-Jan-14			COLUMN ANCHOR BO	LTS - Z2 A9			
BGS09-4520 COLUMN FORM AND POUR - Z2 A9	8	30-Jan-14	10-Feb-14			COLUMN FORM AND	POUR - Z2 A9			
BGS ZONE 2 AREA 9 - LOWER CONCOURSE SLAB	98	07-Apr-14	25-Aug-14							
■ BGS09-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z2 A9	5	07-Apr-14	11-Apr-14			I FORM AND SHOR	E - LC DECK A & WALL	(1 OF 2) - Z2 A9		
■ BGS09-5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z2 A9	5	14-Apr-14	18-Apr-14				RE - LC DECK A & WALL	·		
■ BGS09-5010 REBAR - LC DECK A (1 OF 2) - Z2 A9	5	06-Jun-14	12-Jun-14				DECK A (1 OF 2) - Z2 A9			
■ BGS09-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z2 A9	5	13-Jun-14	19-Jun-14			I FORM AND S	SHORE - LC DECK B & V	VALL (1 OF 2) - Z2 A9		
■ BGS09-5040 MEP - LC DECK A - Z2 A9	10	13-Jun-14	26-Jun-14			■ MEP - LC DE	CK A - Z2 A9	, ,		
■ BGS09-5050 REBAR - LC DECK A (2 OF 2) - Z2 A9	10	13-Jun-14	26-Jun-14			■ REBAR - LC	DECK A (2 OF 2) - Z2 A9	9		
■ BGS09-5060 REBAR - LC DECK B (1 OF 2) - Z2 A9	5	20-Jun-14	26-Jun-14			▮ REBAR - LC	DECK B (1 OF 2) - Z2 AS	9		
■ BGS09-5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z2 A9	5	20-Jun-14	26-Jun-14			FORM AND S	SHORE - LC DECK B & \	MALL (2 OF 2) - Z2 A9		
■ BGS09-5080 POUR - LC DECK A & WALL - Z2 A9	1	27-Jun-14	27-Jun-14			I POUR - LC	DECK A & WALL - Z2 A9			
■ BGS09-5110 CURE LC - DECK A - Z2 A9	21	28-Jun-14	18-Jul-14			CURE LC -	DECK A - Z2 A9			
■ BGS09-5090 MEP - LC DECK B - Z2 A9	10	30-Jun-14	14-Jul-14			■ MEP-LCD	ECK B - Z2 A9			
■ BGS09-5100 REBAR - LC DECK B (2 OF 2) - Z2 A9	10	30-Jun-14	14-Jul-14			REBAR - LO	DECK B (2 OF 2) - Z2 A	49		
■ BGS09-5120 POUR - LC DECK B & WALL - Z2 A9	1	15-Jul-14	15-Jul-14			I POUR - LC	DECK B & WALL - Z2 AS	9		
■ BGS09-5130 CURE LC - DECK B - Z2 A9	21	16-Jul-14	05-Aug-14			■ CURE LC	- DECK B - Z2 A9			
■ BGS09-5140 STRIP LC - DECK A - Z2 A9	14	21-Jul-14	07-Aug-14			■ STRIP LC	- DECK A - Z2 A9			
■ BGS09-5150 STRIP LC - DECK B - Z2 A9	14	06-Aug-14	25-Aug-14			■ STRIP L	C - DECK B - Z2 A9			
BGS ZONE 2 AREA 9 - WALLS (LOWER CONCOURSE)	201	06-Aug-14	01-Jun-15							
■ BGS09-6000 BRACING REMOVAL - LEVEL B - BBII - Z2 A9 (WB 15-17 / WB 55-57) (was BG-BB50420)	5	06-Aug-14	12-Aug-14			I BRACING	REMOVAL - LEVEL B -	BBII - Z2 A9 (WB 15-17 / W	B 55-57) (was BG-BB5042	φ)
BGS09-6010 WALL WATERPROOFING - 3RD LIFT - Z2 A9	7	13-Aug-14	21-Aug-14			■ WALL W	ATERPROOFING - 3RD	LIFT - Z2 A9		
■ BGS09-6020 WALL REBAR (PHASE 1 OF 2) - Z2 A9 (WB 15-17)	2	22-Aug-14	25-Aug-14			I WALL R	EBAR (PHASE 1 OF 2) -	Z2 A9 (WB 15-17)		
BGS09-6030 WALL REBAR (PHASE 2 OF 2) - Z2 A9 (WB 55-57)	2	26-Aug-14	27-Aug-14			I WALL R	EBAR (PHASE 2 OF 2) -	Z2 A9 (WB 55-57)		
■ BGS09-6040 FORM - 1ST SECTION - Z2 A9	6	28-Aug-14	08-Sep-14			■ FORM	- 1ST SECTION - Z2 A9			
■ BGS09-6070 FORM - 2ND SECTION - Z2 A9	6	28-Aug-14	08-Sep-14			■ FORM	- 2ND SECTION - Z2 A9			
■ BGS09-6050 POUR - 1ST SECTION - Z2 A9	2	09-Sep-14	10-Sep-14			I POUR	- 1ST SECTION - Z2 A9			
■ BGS09-6080 POUR - 2ND SECTION - Z2 A9	2	09-Sep-14	10-Sep-14			I POUR	- 2ND SECTION - Z2 A9			
BGS09-6060 CURE & STRIP - 1ST SECTION - Z2 A9	4	11-Sep-14	16-Sep-14			I CURE	& STRIP - 1ST SECTION	N - Z2 A9		
BGS09-6090 CURE & STRIP - 2ND SECTION - Z2 A9	4	11-Sep-14	16-Sep-14			I CURE	& STRIP - 2ND SECTIO	N - Z2 A9		
■ BGS09-6120 CURE - 2ND SECTION - Z2 A9	21	11-Sep-14	01-Oct-14				- 2ND SECTION - Z2 AS			
BGS09-6100 REBRACE LOWER CONCOURSE LEVEL - BBII - Z2 A9 (was BG-BB50620)	5	17-Sep-14	23-Sep-14					R\$E LEVEL - BBII - Z2 A9 (w	,	
BGS09-6110 BRACING REMOVAL - LEVEL A - BBII - Z2 A9 (was BG-BB50520)	5	05-Dec-14	11-Dec-14			0 E	BRACING REMOVAL - L	EVEL A - BBII - Z2 A9 (was	BG-BB50520)	
BGS09-6130 REMOVE REBRACE STRUT - LEVEL RA - Z2 A9	10	-	01-Jun-15				■ REMOVE RE	EBRACE STRUT - LEVEL R	A - Z2 A9	
BGS ZONE 2 - APPURTENANCES	359	26-Aug-14	_							
BG-189800 FORM AND PLACE PADS AND CURBS TRAIN BOX - ZONE 2	20	26-Aug-14	24-Sep-14					CURBS TRAIN BOX - ZOI		
BG-119300 ELEVATOR PITS, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZONE 2		24-Sep-14	07-Oct-14			■ ELEV	ATOR PITS, MECHANIC	CAL AND STAIR PLATFORM	IS TRAIN BOX - ZONE 2	
BG-192800 HOIST #2 BLOCKOUT POUR BACK		04-Feb-16	10-Feb-16					I HOIST #2 BLOCKOU	T POUR BACK	
BGS ZONE 3 (AREAS 10-12 / BUILDING LINES 18.5 TO 25.5)	555	28-Oct-13	27-Jan-16							
BGS ZONE 3 AREA 10 (BUILDING LINES 18.5-20.75)	407	28-Oct-13	19-Jun-15							

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

							JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	ু ১০০০	INIC	2014 2015 2016 2017 2018
☐ BGS ZONE	3 AREA 10 - MAT SLAB	45	28-Oct-13	03-Jan-14	١٨١٩١	Н	
	INSTALL REBAR - LOWER MAT - Z3 A10	6	28-Oct-13	04-Nov-13		11	NSTALL REBAR - LOWER MAT - Z3 A10
	IN-SLAB MEP - Z3 A10		05-Nov-13	08-Nov-13			N-SLAB MEP - Z3 A10
	EDGE FORM / EMBEDS - Z3 A10			15-Nov-13	-		EDGE FORM / EMBEDS - Z3 A10
	INSTALL REBAR - UPPER MAT - Z3 A10	6	12-Nov-13	19-Nov-13			INSTALL REBAR - UPPER MAT - Z3 A10
	MAT POUR - Z3 A10	2		08-Dec-13			MAT POUR - Z3 A10
	MAT SLAB CURE FOR THERMAL CONTROL - Z3 A10		07-Dec-13	20-Dec-13		1	MAT SLAB CURE FOR THERMAL CONTROL - Z3 A10
	MAT SLAB CURE FOR STRENGTH - Z3 A10			26-Dec-13			MAT SLAB CURE FOR STRENGTH - Z3 A10
	STRIP EDGE FORM - Z3 A10		09-Dec-13				STRIP EDGE FORM - Z3 A10
	BRACING REMOVAL - LEVEL D - BBII - Z3 A10 (WD 18-20 / WD 52-54) (was BG-BB50720)		27-Dec-13				BRACING REMOVAL - LEVEL D - BBII - Z3 A10 (WD 18-20 / WD 52-54) (was BG-BB50720)
	B AREA 10 - WALLS/COLUMNS (TRAIN PLATFORM)			15-Oct-14			
	AREA 10 - WALLS (TRAIN PLATFORM)	195	06-Jan-14	15-Oct-14			
	WALL WATERPROOFING - 1ST LIFT - Z3 A10		06-Jan-14	15-Jan-14			■ WALL WATERPROOFING - 1ST LIFT - Z3 A10
	WALL REBAR - 1ST LIFT (1 OF 2) - Z3 A10 (WD 18-20)			17-Jan-14	-		WALL REBAR - 1ST LIFT (1 OF 2) - Z3 A10 (WD 18-20)
	WALL REBAR - 1ST LIFT (2 OF 2) - Z3 A10 (WD 52-54)			22-Jan-14			WALL REBAR - 1ST LIFT (2 OF 2) - Z3 A10 (WD 52-54)
	FORM - 1ST LIFT - 1ST SECTION - Z3 A10		10-Feb-14	18-Feb-14			FORM - 1ST LIFT - 1ST SECTION - Z3 A10
	FORM - 1ST LIFT - 2ND SECTION - Z3 A10		10-Feb-14	18-Feb-14	-		FORM - 1ST LIFT - 2ND SECTION - Z3 A10
	POUR - 1ST LIFT - 1ST SECTION - Z3 A10		19-Feb-14	20-Feb-14	_		I POUR - 1ST LIFT - 1ST SECTION - Z3 A10
	POUR - 1ST LIFT - 2ND SECTION - Z3 A10		19-Feb-14	20-Feb-14	_		I POUR - 1ST LIFT - 2ND SECTION - Z3 A10
	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z3 A10			26-Feb-14			CURE & STRIP - 1ST LIFT - 1ST SECTION - Z3 A10
	CURE & STRIP - 1ST LIFT - 2ND SECTION - Z3 A10			26-Feb-14	_		CURE & STRIP - 1ST LIFT - 2ND SECTION - Z\$ A10
	CURE - 1ST LIFT - 2ND SECTION - Z3 A10		21-Feb-14	13-Mar-14	_		CURE - 1ST LIFT - 2ND SECTION - Z3 A10
	REBRACE TRAIN PLATFORM LEVEL - BBII - Z3 A10 (was BG-BB50920)		27-Feb-14	05-Mar-14	-		REBRACE TRAIN PLATFORM LEVEL - BBII - Z3 A10 (was BG-BB50920)
	BRACING REMOVAL - LEVEL C - BBII - Z3 A10 (WC 18-20 / WC 52-54) (was BG-BB50820)			20-Mar-14	-		BRACING REMOVAL - LEVEL C - BBII - Z3 A10 (WC 18-20 / WC 52-54) (was BG-BB50820)
	WALL WATERPROOFING - 2ND LIFT - Z3 A10			01-Apr-14			WALL WATERPROOFING - 2ND LIFT - Z3 A10
	WALL REBAR - 2ND LIFT (1 OF 2) - Z3 A10 (WC 18-20)		02-Apr-14	03-Apr-14	-		I WALL REBAR - 2ND LIFT (1 OF 2) - Z3 A10 (WC 18-20)
	WALL REBAR - 2ND LIFT (2 OF 2) - Z3 A10 (WC 52-54)			07-Apr-14	-		WALL REBAR - 2ND LIFT (2 OF 2) - Z3 A10 (WC 52-54)
	FORM - 2ND LIFT - 2ND SECTION - Z3 A10		·	15-Apr-14			FORM - 2ND LIFT - 2ND SECTION - Z3 A10
	POUR - 2ND LIFT - 2ND SECTION - Z3 A10		·	17-Apr-14	-		POUR - 2ND LIFT - 2ND SECTION - Z3 A10
	CURE & STRIP - 2ND LIFT - 2ND SECTION - Z3 A10		·	23-Apr-14			CURE & STRIP - 2ND LIFT - 2ND SECTION - Z3 A10
	FORM - 2ND LIFT - 1ST SECTION - Z3 A10		30-Apr-14				FORM - 2ND LIFT - 1ST SECTION - Z3 A10
	POUR - 2ND LIFT - 1ST SECTION - Z3 A10		08-May-14				I POUR - 2ND LIFT - 1ST SECTION - Z3 A10
	CURE & STRIP - 2ND LIFT - 1ST SECTION - Z3 A10		12-May-14	,			CURE & STRIP - 2ND LIFT - 1ST SECTION - Z3 A10
	REMOVE REBRACE STRUT - LEVEL RB - Z3 A10		-	15-Oct-14			REMOVE REBRACE STRUT - LEVEL RB - Z3 A10
	AREA 10 - COLUMNS (TRAIN PLATFORM)			24-Feb-14			
	COLUMN REBAR - Z3 A10			28-Jan-14			COLUMN REBAR - Z3 A10
	COLUMN ANCHOR BOLTS - Z3 A10			11-Feb-14			COLUMN ANCHOR BOLTS - Z3 A10
	COLUMN FORM AND POUR - Z3 A10		12-Feb-14				COLUMN FORM AND POUR - Z3 A10
	3 AREA 10 - LOWER CONCOURSE SLAB		16-May-14				
	FORM AND SHORE - LC DECK A & WALL (1 OF 2 - Z3 A10)		16-May-14				I FORM AND SHORE - LC DECK A & WALL (1 OF 2 - Z3 A10)
	FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z3 A10		27-May-14	-			FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z3 A10
	REBAR - LC DECK A (1 OF 2) - Z3 A10		-	21-Jul-14			■ REBAR - LC DECK A (1 OF 2) - Z3 A10
	FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z3 A10		22-Jul-14	28-Jul-14			FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z3 A10
	MEP - LC DECK A - Z3 A10			04-Aug-14			■ MEP - L¢ DECK A - Z3 A10
	REBAR - LC DECK A (2 OF 2) - Z3 A10		22-Jul-14	04-Aug-14			REBAR - LC DECK A (2 OF 2) - Z3 A10
	REBAR - LC DECK B (1 OF 2) - Z3 A10		29-Jul-14	04-Aug-14			■ REBAR - LC DECK B (1 OF 2) - Z3 A10
	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z3 A10		29-Jul-14	04-Aug-14			FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z3 A10
Levert Fishibit				317.ug 1-t			2 . Stanta Storic Essents & Mile (2 of 2) Zotto

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

										JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	ŀ		2014	2015	2016	2017	2018
					_ASD	ND	PJFMAMJJASPNDJFMA			JFMAMJJASPMD	J = M
■ BGS10-5080	POUR - LC DECK A & WALL - Z3 A10	1	05-Aug-14	05-Aug-14			I POUR - LC DECK				
■ BGS10-5090	MEP - LC DECK B - Z3 A10	10	06-Aug-14	19-Aug-14			■ MEP - LC DECK	(B - Z3 A10			
■ BGS10-5100	REBAR - LC DECK B (2 OF 2) - Z3 A10	10	06-Aug-14	19-Aug-14			■ REBAR - LC DE	CK B (2 OF 2) - Z3	A10		
■ BGS10-5110	CURE LC - DECK A - Z3 A10	21	06-Aug-14	26-Aug-14			CURE LC - DEC	CK A - Z3 A10			
■ BGS10-5120	POUR - LC DECK B & WALL - Z3 A10	1	20-Aug-14	20-Aug-14			I POUR - LC DEC	CK B & WALL - Z3	A10		
■ BGS10-5130	CURE LC - DECK B - Z3 A10	21	21-Aug-14	10-Sep-14			☐ CURE LC - DE	CK B - Z3 A10			
■ BGS10-5140	STRIP LC - DECK A - Z3 A10	14	27-Aug-14	17-Sep-14			■ STRIP LC - DE	ECK A - Z3 A10			
■ BGS10-5150	STRIP LC - DECK B - Z3 A10	14	11-Sep-14	30-Sep-14			■ STRIP LC - D	DECK B - Z3 A10			
₽ BGS ZONE	3 AREA 10 - WALLS (LOWER CONCOURSE)	191	11-Sep-14	19-Jun-15							
	BRACING REMOVAL - LEVEL B - BBII - Z3 A10 (WB 18-20 / WB 52-54) (was BG-BB51020)	5	11-Sep-14	17-Sep-14			■ BRACING REI	MOVAL - LEVEL B	- BBII - Z3 A10 (WB 18-20	/ WB 52-54) (was BG-BB5	1020)
■ BGS10-6010	WALL WATERPROOFING - 3RD LIFT - Z3 A10	7	18-Sep-14	26-Sep-14			WALL WATER	RPROOFING - 3RI	D LIFT - Z3 A10		,
■ BGS10-6020	WALL REBAR (PHASE 1 OF 2) - Z3 A10 (WB 18-20)	2	29-Sep-14	·			I WALL REBAI	R (PHASE 1 OF 2)	- Z3 A10 (WB 18-20)		
■ BGS10-6030	WALL REBAR (PHASE 2 OF 2) - Z3 A10 (WB 52-54)	2	01-Oct-14	02-Oct-14			I WALL REBAI	R (PHASE 2 OF 2)	- Z3 A10 (WB 52-54)		
	FORM - 2ND SECTION - Z3 A10	6	03-Oct-14	10-Oct-14				SECTION - Z3 A1			
■ BGS10-6040	FORM - 1ST SECTION - Z3 A10	6	08-Oct-14	16-Oct-14			■ FORM - 1S1	T SECTION - Z3 A	10		
	POUR - 2ND SECTION - Z3 A10	2	14-Oct-14	15-Oct-14	_			D SECTION - Z3 A			
	CURE & STRIP - 2ND SECTION - Z3 A10	4	16-Oct-14	21-Oct-14				RIP - 2ND SECTION			
	POUR - 1ST SECTION - Z3 A10	2	17-Oct-14	20-Oct-14				T SECTION - Z3 A			
	CURE & STRIP - 1ST SECTION - Z3 A10	4	21-Oct-14	24-Oct-14			•	TRIP - 1ST SECTIO			
	CURE - 2ND SECTION - Z3 A10	21	21-Oct-14	10-Nov-14			• • • • • • • • • • • • • • • • • • • •	ND SECTION - Z3			
	REBRACE LOWER CONCOURSE LEVEL - BBII - Z3 A10 (was BG-BB51220)	5	27-Oct-14	31-Oct-14					JRSE LEVEL - BBII - Z3 A1	0 (was BG-BB51220)	
	BRACING REMOVAL - LEVEL A - BBII - Z3 A10 (was BG-BB51120)	5	12-Dec-14	18-Dec-14	_				VEL A - BBII - Z3 A10 (was	,	
	REMOVE REBRACE STRUT - LEVEL RA - Z3 A10			19-Jun-15					EBRACE STRUT - LEVEL I	<u> </u>	
	AREA 11 (BUILDING LINES 20.75-22.75)										
	3 AREA 11 - MAT SLAB			20-Mar-14							
	WATERPROOFING - SLAB AND BASE OF WALLS - Z3 A11		-	_			■ WATERPROOFING - SLAB AND		72 111		
				17-Jan-14	_			D BASE OF WALLS	5 - 23 ATT		
	PROTECTION SLAB - Z3 A11 INSTALL REBAR - LOWER MAT - Z3 A11	2	21-Jan-14	22-Jan-14			PROTECTION SLAB - Z3 A11	NT 70 A44			-
	INSTALL REBAR - LOWER MAT - 23 ATT		23-Jan-14	30-Jan-14 07-Feb-14	_		I INSTALL REBAR - LOWER MA I INSTALL REBAR - UPPER MA				
	EDGE FORM / EMBEDS - Z3 A11		31-Jan-14	1 11	_		■ EDGE FORM / EMBEDS - Z3				
			31-Jan-14 22-Feb-14		_			AII			
	MAT POUR - Z3 A11	_		_	_		MAT POUR - Z3 A11	DMAL CONTROL	70 444		
	MAT SLAB CURE FOR THERMAL CONTROL - Z3 A11			07-Mar-14	_		MAT SLAB CURE FOR THE		- 23 ATT		
	MAT SLAB CURE FOR STRENGTH - Z3 A11		22-Feb-14	13-Mar-14	_		MAT SLAB CURE FOR STR				
	STRIP EDGE FORM - Z3 A11		24-Feb-14	26-Feb-14	_		STRIP EDGE FORM - Z3 A11		14 (MID 00 00 (MID 50 50)	(DO DD54000)	
	BRACING REMOVAL - LEVEL D - BBII - Z3 A11 (WD 20-22 / WD 50-52) (was BG-BB51320)		14-Mar-14	20-Mar-14			BRACING REMOVAL - LEV	/EL D - BBII - Z3 A	11 (WD 20-22 / WD 50-52)	(was BG-BB51320)	
	3 AREA 11 - WALLS/COLUMNS (TRAIN PLATFORM)		21-Mar-14								
	AREA 11 - COLUMNS (TRAIN PLATFORM)		· ·	07-May-14							
	COLUMN REBAR - Z3 A11			11-Apr-14	_		COLUMN REBAR - Z3 A1				
	COLUMN ANCHOR BOLTS - Z3 A11		14-Apr-14	25-Apr-14	_		COLUMN ANCHOR BOL				
	COLUMN FORM AND POUR - Z3 A11		28-Apr-14	07-May-14	_		COLUMN FORM AND P	POUR - Z3 A11			
	AREA 11 - WALLS (TRAIN PLATFORM)		21-Mar-14	07-Nov-14	_						
	WALL WATERPROOFING - 1ST LIFT - Z3 A11			01-Apr-14			■ WALL WATERPROOFING				
	WALL REBAR - 1ST LIFT (1 OF 2) - Z3 A11 (WD 20-22)		02-Apr-14	03-Apr-14	_		I WALL REBAR - 1ST LIFT	` '	<u>'</u>		
■ BGS11-4020	WALL REBAR - 1ST LIFT (2 OF 2) - Z3 A11 (WD 50-52)		04-Apr-14	07-Apr-14	_		I WALL REBAR - 1 ST LIFT	(2 OF 2) - Z3 A11	(WD 50-52)		
■ BGS11-4030	FORM - 1ST LIFT - 1ST SECTION - Z3 A11	6	08-Apr-14	15-Apr-14	_		FORM - 1ST LIFT - 1ST S	SECTION - Z3 A11			
■ BGS11-4060	FORM - 1ST LIFT - 2ND SECTION - Z3 A11	6	08-Apr-14	15-Apr-14			FORM - 1ST LIFT - 2ND S	SECTION - Z3 A11			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

										JOINT VENTURE	E
Activity ID	Activity Name	OD	Start	Finish			2014	2015	2016	2017	2018
					_ASO	טואן				JFMAMJJASZND	
	S11-4040 POUR - 1ST LIFT - 1ST SECTION - Z3 A11			17-Apr-14				T - 1ST SECTION - Z3 A11			
	311-4070 POUR - 1ST LIFT - 2ND SECTION - Z3 A11	2		17-Apr-14	_			T - 2ND SECTION - Z3 A11			
	311-4050 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z3 A11	4	18-Apr-14	23-Apr-14	_			1ST LIFT - 1ST SECTION			
	CURE & STRIP - 1ST LIFT - 2ND SECTION - Z3 A11	4	18-Apr-14	23-Apr-14	_			- 1ST LIFT - 2ND SECTION			
	S11-4200 CURE - 1ST LIFT - 2ND SECTION - Z3 A11	21	18-Apr-14	08-May-14	_			FT - 2ND SECTION - Z3 A1			
	REBRACE TRAIN PLATFORM LEVEL - BBII - Z3 A11 (was BG-BB51520)	5	24-Apr-14	30-Apr-14					II - Z3 A11 (was BG-BB51	,	
	B11-4100 BRACING REMOVAL - LEVEL C - BBII - Z3 A11 (WC 20-22 / WC 50-52) (was BG-BB51420)	5	09-May-14	15-May-14	_		_		² 3 A11 (WC 20-22 / WC 50	52) (was BG-BB51420)	
■ BGS	S11-4110 WALL WATERPROOFING - 2ND LIFT - Z3 A11	8	-		_		■ WALL WATER	RPROOFING - 2ND LIFT -	Ž3 A11		
■ BGS	S11-4120 WALL REBAR - 2ND LIFT (1 OF 2) - Z3 A11 (WC 20-22)	2	30-May-14	02-Jun-14	_		I WALL REBAR	R - 2ND LIFT (1 OF 2) - Z3	A11 (WC 20-22)		
■ BGS	S11-4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z3 A11 (WC 50-52)	2	03-Jun-14	04-Jun-14	_		I WALL REBAR	R - 2ND LIFT (2 OF 2) - Z3	A11 (WC 50-52)		
■ BGS	FORM - 2ND LIFT - 1ST SECTION - Z3 A11	6	05-Jun-14	12-Jun-14			■ FORM - 2ND	LIFT - 1ST SECTION - Z3	A11		
■ BGS	511-4170 FORM - 2ND LIFT - 2ND SECTION - Z3 A11	6	05-Jun-14	12-Jun-14			■ FORM - 2ND	LIFT - 2ND SECTION - Z3	A11		
■ BGS	POUR - 2ND LIFT - 1ST SECTION - Z3 A11	2	13-Jun-14	16-Jun-14			l POUR - 2ND	LIFT - 1ST SECTION - Z3	A11		
■ BGS	POUR - 2ND LIFT - 2ND SECTION - Z3 A11	2	13-Jun-14	16-Jun-14			I POUR - 2ND	LIFT - 2ND SECTION - Z3	A11		
■ BGS	S11-4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z3 A11	4	17-Jun-14	20-Jun-14			I CURE & ST	RIP - 2ND LIFT - 1ST SEC	TION - Z3 A11		
■ BGS	S11-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z3 A11	4	17-Jun-14	20-Jun-14			I CURE & ST	RIP - 2ND LIFT - 2ND SEC	TION - Z3 A11		
■ BGS	REMOVE REBRACE STRUT - LEVEL RB - Z3 A11	10	27-Oct-14	07-Nov-14			■ R	EMOVE REBRACE STRUT	- LEVEL RB - Z3 A11		
₽ BGS	ZONE 3 AREA 11 - LOWER CONCOURSE SLAB	86	23-Jun-14	24-Oct-14							
■ BGS1	11-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z3 A11	5	23-Jun-14	27-Jun-14			I FORM AND	SHORE - LC DECK A & V	ALL (1 OF 2) - Z3 A11		
■ BGS1	11-5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z3 A11	5	30-Jun-14	07-Jul-14			■ FORM AND	SHORE - LC DECK A & \	WALL (2 OF 2) - Z3 A11		
■ BGS1	11-5010 REBAR - LC DECK A (1 OF 2) - Z3 A11	5	05-Aug-14	11-Aug-14			■ REBAR	- LC DECK A (1 OF 2) - Z3	A11		
■ BGS1	11-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z3 A11	5	12-Aug-14	18-Aug-14			I FORM A	ND SHORE - LC DECK B	& WALL (1 OF 2) - Z3 A11		
■ BGS1	11-5040 MEP - LC DECK A - Z3 A11	10	12-Aug-14	25-Aug-14			■ MEP-I	C DECK A - Z3 A11			
■ BGS1	11-5050 REBAR - LC DECK A (2 OF 2) - Z3 A11	10	12-Aug-14	25-Aug-14			■ REBAR	- LC DECK A (2 OF 2) - Z	3 A11		
■ BGS1	11-5060 REBAR - LC DECK B (1 OF 2) - Z3 A11	5	19-Aug-14	25-Aug-14			I REBAR	- LC DECK B (1 OF 2) - Z	3 A11		
■ BGS1	11-5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z3 A11	5	19-Aug-14	25-Aug-14			■ FORM	AND SHORE - LC DECK B	& WALL (2 OF 2) - Z3 A1	1	
■ BGS1	11-5080 POUR - LC DECK A & WALL - Z3 A11	1	26-Aug-14	26-Aug-14			I POUR	LC DECK A & WALL - Z3	A11		
■ BGS1	11-5090 MEP - LC DECK B - Z3 A11	10	27-Aug-14	11-Sep-14			■ MEP -	LC DECK B - Z3 A11			
■ BGS1	11-5100 REBAR - LC DECK B (2 OF 2) - Z3 A11	10	27-Aug-14	11-Sep-14			■ REBA	R - LC DECK B (2 OF 2) - 2	Z3 A11		
■ BGS1	11-5110 CURE LC - DECK A - Z3 A11	21	27-Aug-14	16-Sep-14			CURE	LC - DECK A - Z3 A11			
■ BGS1	11-5120 POUR - LC DECK B & WALL - Z3 A11	1	12-Sep-14	12-Sep-14			I POUR	- LC DECK B & WALL - Z	3 A11		
■ BGS1	11-5130 CURE LC - DECK B - Z3 A11	21	13-Sep-14	03-Oct-14			■ CUR	E LC - DECK B - Z3 A11			
■ BGS1	11-5140 STRIP LC - DECK A - Z3 A11	14	17-Sep-14	06-Oct-14			■ STR	IP LC - DECK A - Z3 A11			
■ BGS1	11-5150 STRIP LC - DECK B - Z3 A11	14	06-Oct-14	24-Oct-14			■ ST	RIP LC - DECK B - Z3 A11			
₽ BGS	ZONE 3 AREA 11 - WALLS (LOWER CONCOURSE)	219	06-Oct-14	24-Aug-15							
■ BGS1	11-6000 BRACING REMOVAL - LEVEL B - BBII - Z3 A11 (WB 20-22 / WB 50-52) (was BG-BB51620)	5	06-Oct-14	10-Oct-14			I BRA	CING REMOVAL - LEVEL	B - BBII - Z3 A11 (WB 20-	22 / WB 50-52) (was BG-BB	51620)
■ BGS1	11-6010 WALL WATERPROOFING - 3RD LIFT - Z3 A11	7	14-Oct-14	22-Oct-14			I WA	LL WATERPROOFING - 3	RD LIFT - Z3 A11		
■ BGS1	11-6020 WALL REBAR (PHASE 1 OF 2) - Z3 A11 (WB 20-22)	2	23-Oct-14	24-Oct-14			l WA	LL REBAR (PHASE 1 OF	2) - Z3 A11 (WB 20-22)		
■ BGS1	11-6030 WALL REBAR (PHASE 2 OF 2) - Z3 A11 (WB 50-52)	2	27-Oct-14	28-Oct-14			l W	ALL REBAR (PHASE 2 OF	2) - Z3 A11 (WB 50-52)		
■ BGS1	11-6040 FORM - 1ST SECTION - Z3 A11	6	29-Oct-14	05-Nov-14			□ F(DRM - 1ST SECTION - Z3	A11		
■ BGS1	11-6070 FORM - 2ND SECTION - Z3 A11	6	29-Oct-14	05-Nov-14			I F(DRM - 2ND SECTION - Z3	A11		
■ BGS1	11-6050 POUR - 1ST SECTION - Z3 A11	2	06-Nov-14	07-Nov-14			I P	OUR - 1ST SECTION - Z3	A11		
■ BGS1	11-6080 POUR - 2ND SECTION - Z3 A11	2	06-Nov-14	07-Nov-14			I P	OUR - 2ND SECTION - Z3	A11		
■ BGS1	11-6120 CURE - 2ND SECTION - Z3 A11	21	08-Nov-14	28-Nov-14				CURE - 2ND SECTION - Z	3 A11		
■ BGS1	11-6060 CURE & STRIP - 1ST SECTION - Z3 A11	4	10-Nov-14	13-Nov-14			I C	URE & STRIP - 1ST SECT	ON - Z3 A11		
■ BGS1	11-6090 CURE & STRIP - 2ND SECTION - Z3 A11	4	10-Nov-14	13-Nov-14			I d	URE & STRIP - 2ND SECT	ION - Z3 A11		
■ BGS1	11-6100 REBRACE LOWER CONCOURSE LEVEL - BBII - Z3 A11 (was BG-BB51820)	5	14-Nov-14	20-Nov-14			I R	EBRACE LOWER CONC	URSE LEVEL - BBII - Z3 /	11 (was BG-BB51820)	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
ctivity ID	Activity Name	OD	Start	Finish	ا ما ما		2015 D 11 ELVI AM 11 11 A ELVI NI F	2016	2017 D 11 ELM ALM 11 11 ALG DINID	2018
■ BGS11-6110	BRACING REMOVAL - LEVEL A - BBII - Z3 A11 (was BG-BB51720)	5	19-Dec-14	29-Dec-14			BRACING REMOVAL - L			77. [7 4 4
	REMOVE REBRACE STRUT - LEVEL RA - Z3 A11		11-Aug-15	24-Aug-15	_			VE REBRACE STRUT - LE	*	
	3 AREA 12 (BUILDING LINES 22.75-25.5)			05-Nov-15						
	3 AREA 12 - MAT SLAB	51	05-Feb-14	17-Apr-14						
	WATERPROOFING - SLAB AND BASE OF WALLS - Z3 A12		05-Feb-14	19-Feb-14		■ WATERPROOFING	- SLAB AND BASE OF WA	ILS - 73 A12		
	PROTECTION SLAB - Z3 A12	2	20-Feb-14	21-Feb-14	_	I PROTECTION SLAE		11LO - 20 A12		
	INSTALL REBAR - LOWER MAT - Z3 A12	8	24-Feb-14	05-Mar-14	_	I INSTALL REBAR -				
	IN-SLAB MEP - Z3 A12	4	06-Mar-14	11-Mar-14	_	I IN-SLAB MEP - Z3				
	EDGE FORM / EMBEDS - Z3 A12	8	06-Mar-14	17-Mar-14	_	■ EDGE FORM / EM				
	INSTALL REBAR - UPPER MAT - Z3 A12	8	12-Mar-14	21-Mar-14			- UPPER MAT - Z3 A12			
	MAT POUR - Z3 A12	2	22-Mar-14	23-Mar-14	_	I MAT POUR - Z3 A				
	MAT SLAB CURE FOR THERMAL CONTROL - Z3 A12	14	22-Mar-14	04-Apr-14	_		FOR THERMAL CONTRO	DL - Z3 A12		
BGS12-1150	MAT SLAB CURE FOR STRENGTH - Z3 A12	20	22-Mar-14	10-Apr-14	_	■ MAT SLAB CUR	E FOR STRENGTH - Z3 A1	12		
BGS12-1110	STRIP EDGE FORM - Z3 A12	3	24-Mar-14	26-Mar-14		I STRIP EDGE FOR	RM - Z3 A12			
■ BGS12-1120	BRACING REMOVAL - LEVEL D - BBII - Z3 A12 (WD 22-25 / WD 47-50) (was BG-BB51920)	5	11-Apr-14	17-Apr-14			OVAL - LEVEL D - BBII - Z3	3 A12 (WD 22-25 / WD 47-5	50) (was BG-BB51920)	
	3 AREA 12 - WALLS/COLUMNS (TRAIN PLATFORM)	143	18-Apr-14	12-Nov-14				,		
	AREA 12 - WALLS (TRAIN PLATFORM)	143	18-Apr-14	12-Nov-14	_					
	WALL WATERPROOFING - 1ST LIFT - Z3 A12	8	18-Apr-14	29-Apr-14	_	■ WALL WATER	PROOFING - 1ST LIFT - Z3	3 A12		
	WALL REBAR - 1ST LIFT (1 OF 2) - Z3 A12 (WD 22-25)	2	30-Apr-14	01-May-14		WALL REBAR	- 1ST LIFT (1 OF 2) - Z3 A1	12 (WD 22-25)		
	WALL REBAR - 1ST LIFT (2 OF 2) - Z3 A12 (WD 47-50)	2	02-May-14	05-May-14		I WALL REBAR	- 1ST LIFT (2 OF 2) - Z3 A1	12 (WD 47-50)		
	FORM - 1ST LIFT - 1ST SECTION - Z3 A12	9	-	16-May-14			IFT - 1ST SECTION - Z3 A	, ,		
■ BGS12-4060	FORM - 1ST LIFT - 2ND SECTION - Z3 A12	9	06-May-14	16-May-14	_	■ FORM - 1ST L	IFT - 2ND SECTION - Z3 A	12		
■ BGS12-4040	POUR - 1ST LIFT - 1ST SECTION - Z3 A12	3	19-May-14	21-May-14		I POUR - 1ST L	IFT - 1ST SECTION - Z3 A	12		
■ BGS12-4070	POUR - 1ST LIFT - 2ND SECTION - Z3 A12	3	19-May-14	21-May-14		I POUR - 1ST L	IFT - 2ND SECTION - Z3 A	A12		
■ BGS12-4050	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z3 A12	6	22-May-14	02-Jun-14		■ CURE & STR	RIP - 1ST LIFT - 1ST SECTI	ION - Z3 A12		
■ BGS12-4080	CURE & STRIP - 1ST LIFT - 2ND SECTION - Z3 A12	6	22-May-14	02-Jun-14		CURE & STF	RIP - 1ST LIFT - 2ND SECT	ION - Z3 A12		
■ BGS12-4200	CURE - 1ST LIFT - 2ND SECTION - Z3 A12	21	22-May-14	11-Jun-14		☐ CURE - 1ST	LIFT - 2ND SECTION - Z3	A12		
■ BGS12-4090	REBRACE TRAIN PLATFORM LEVEL - BBII - Z3 A12 (was BG-BB52120)	5	03-Jun-14	09-Jun-14		■ REBRACE T	RAIN PLATFORM LEVEL	- BBII - Z3 A12 (was BG-BI	352120)	
■ BGS12-4100	BRACING REMOVAL - LEVEL C - BBII - Z3 A12 (WC 22-25 / WC 47-50) (was BG-BB52020)	5	12-Jun-14	18-Jun-14		1 BRACING F	REMOVAL - LEVEL C - BBI	I - Z3 A12 (WC 22-25 / WC	47-50) (was BG-BB52020)	
■ BGS12-4110	WALL WATERPROOFING - 2ND LIFT - Z3 A12	8	19-Jun-14	30-Jun-14		■ WALL WAT	TERPROOFING - 2ND LIFT	- Z3 A12		
■ BGS12-4120	WALL REBAR - 2ND LIFT (1 OF 2) - Z3 A12 (WC 22-25)	2	01-Jul-14	02-Jul-14		I WALL REE	BAR - 2ND LIFT (1 OF 2) - 2	Z3 A12 (WC 22-25)		
■ BGS12-4130	WALL REBAR - 2ND LIFT (2 OF 2) - Z3 A12 (WC 47-50)	2	03-Jul-14	07-Jul-14		I WALL RE	BAR - 2ND LIFT (2 OF 2) - 2	Z3 A12 (WC 47-50)		
■ BGS12-4140	FORM - 2ND LIFT - 1ST SECTION - Z3 A12	9	08-Jul-14	18-Jul-14		■ FORM - 2	ND LIFT - 1ST SECTION -	Z3 A12		
■ BGS12-4170	FORM - 2ND LIFT - 2ND SECTION - Z3 A12	9	08-Jul-14	18-Jul-14	_	■ FORM - 2	ND LIFT - 2ND SECTION -	Z3 A12		
■ BGS12-4150	POUR - 2ND LIFT - 1ST SECTION - Z3 A12	3	21-Jul-14	23-Jul-14		l POUR - 2	ND LIFT - 1ST SECTION -	Z3 A12		
■ BGS12-4180	POUR - 2ND LIFT - 2ND SECTION - Z3 A12	3	21-Jul-14	23-Jul-14		l POUR - 2	ND LIFT - 2ND SECTION -	- Z3 A12		
■ BGS12-4160	CURE & STRIP - 2ND LIFT - 1ST SECTION - Z3 A12	6	24-Jul-14	31-Jul-14		CURE &	STRIP - 2ND LIFT - 1ST S	ECTION - Z3 A12		
■ BGS12-4190	CURE & STRIP - 2ND LIFT - 2ND SECTION - Z3 A12	6	24-Jul-14	31-Jul-14	_	CURE &	STRIP - 2ND LIFT - 2ND S	SECTION - Z3 A12		
■ BGS12-4210	REMOVE REBRACE STRUT - LEVEL RB - Z3 A12	10	30-Oct-14	12-Nov-14		0 F	REMOVE REBRACE STRU	T - LEVEL RB - Z3 A12		
	AREA 12 - COLUMNS (TRAIN PLATFORM)	26	30-Apr-14	06-Jun-14						
■ BGS12-4500	COLUMN REBAR - Z3 A12	8	30-Apr-14	09-May-14	_	COLUMN RE	BAR - Z3 A12			
■ BGS12-4510	COLUMN ANCHOR BOLTS - Z3 A12	10	12-May-14	27-May-14		■ COLUMN AN	CHOR BOLTS - Z3 A12			
	COLUMN FORM AND POUR - Z3 A12		28-May-14			COLUMN FO	ORM AND POUR - Z3 A12			
BGS ZONE	3 AREA 12 - LOWER CONCOURSE SLAB	61	01-Aug-14	29-Oct-14						
	FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z3 A12	5	01-Aug-14	07-Aug-14		I FORM A	AND SHORE - LC DECK A	& WALL (1 OF 2) - Z3 A12		
■ BGS12-5010	REBAR - LC DECK A (1 OF 2) - Z3 A12	5	08-Aug-14	14-Aug-14		I REBAR	- LC DECK A (1 OF 2) - Z3	A12		

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE	E
Activity ID	Activity Name	OD	Start	Finish			2014 2015	2016	2017	2018
— PCS12 F020	FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z3 A12		08-Aug-14	14 Aug 14	AISI	טואו	JFMAMJJASZNOJFVAMJJASZNOJ			J[T[M[A[M]J].
	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - 23 A12	5	15-Aug-14		_		FORM AND SHORE - LC DECK A & V FORM AND SHORE - LC DECK B & V	` ,		
	MEP - LC DECK A - Z3 A12	10	+ -		_		■ MEP - LC DECK A - Z3 A12	WALL (1 OF 2) - 23 A12		
			15-Aug-14					140		
	REBAR - LC DECK A (2 OF 2) - Z3 A12	10	15-Aug-14		_		REBAR - LC DECK A (2 OF 2) - Z3 A			
	REBAR - LC DECK B (1 OF 2) - Z3 A12	5	22-Aug-14		_		REBAR - LC DECK B (1 OF 2) - Z3 A			
	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z3 A12	5	22-Aug-14		_		FORM AND SHORE - LC DECK B &			
	POUR - LC DECK A & WALL - Z3 A12	1	02-Sep-14	02-Sep-14	_		POUR - LC DECK A & WALL - Z3 A1	12		
	MEP - LC DECK B - Z3 A12		03-Sep-14	· ·	_		MEP - LC DECK B - Z3 A12	A 4 0		
	REBAR - LC DECK B (2 OF 2) - Z3 A12		03-Sep-14	· ·	_		REBAR - LC DECK B (2 OF 2) - Z3	A12		
	CURE LC - DECK A - Z3 A12	21	03-Sep-14	<u> </u>	_		CURE LC - DECK A - Z3 A12	140		
	POUR - LC DECK B & WALL - Z3 A12	1	17-Sep-14	<u>'</u>	_		I POUR - LC DECK B & WALL - Z3 A	N12		
	CURE LC - DECK B - Z3 A12	21	18-Sep-14	08-Oct-14	_		CURE LC - DECK B - Z3 A12			
	STRIP LC - DECK A - Z3 A12		24-Sep-14				STRIP LC - DECK A - Z3 A12			
	STRIP LC - DECK B - Z3 A12		09-Oct-14	29-Oct-14			STRIP LC - DECK B - Z3 A12			
	3 AREA 12 - WALLS (LOWER CONCOURSE)	ļ	09-Oct-14	05-Nov-15						
	BRACING REMOVAL - LEVEL B - BBII - Z3 A12 (WB 22-25 / WB 47-50) (was BG-BB52220)	5	09-Oct-14	16-Oct-14	_		BRACING REMOVAL - LEVEL B	,	25 / WB 47-50) (was BG-BB	52220)
	WALL WATERPROOFING - 3RD LIFT - Z3 A12	7	17-Oct-14	27-Oct-14	_		■ WALL WATERPROOFING - 3RD	-		
■ BGS12-6020	WALL REBAR (PHASE 1 OF 2) - Z3 A12 (WB 22-25)		28-Oct-14	29-Oct-14			I WALL REBAR (PHASE 1 OF 2) -			
■ BGS12-6030	WALL REBAR (PHASE 2 OF 2) - Z3 A12 (WB 47-50)	2	30-Oct-14	31-Oct-14	_		I WALL REBAR (PHASE 2 OF 2)	- Z3 A12 (WB 47-50)		
■ BGS12-6040	FORM - 1ST SECTION - Z3 A12	9	14-Nov-14	26-Nov-14	_		FORM - 1ST SECTION - Z3 A	12		
■ BGS12-6070	FORM - 2ND SECTION - Z3 A12	9	14-Nov-14	26-Nov-14	_		FORM - 2ND SECTION - Z3 A	.12		
■ BGS12-6080	POUR - 2ND SECTION - Z3 A12	3	01-Dec-14	03-Dec-14	_		POUR - 2ND SECTION - Z3 A	\12		
■ BGS12-6050	POUR - 1ST SECTION - Z3 A12	3	01-Dec-14	03-Dec-14			l POUR - 1ST SECTION - Z3 A	112		
■ BGS12-6060	CURE & STRIP - 1ST SECTION - Z3 A12	6	04-Dec-14	11-Dec-14	_		CURE & STRIP - 1ST SECTION	ON - Z3 A12		
■ BGS12-6090	CURE & STRIP - 2ND SECTION - Z3 A12	6	04-Dec-14	11-Dec-14	_		CURE & STRIP - 2ND SECTI	ION - Z3 A12		
■ BGS12-6120	CURE - 2ND SECTION - Z3 A12	21	04-Dec-14	24-Dec-14			CURE - 2ND SECTION - Z3	A12		
■ BGS12-6100	REBRACE LOWER CONCOURSE LEVEL - BBII - Z3 A12 (was BG-BB52420)	5	12-Dec-14	18-Dec-14			REBRACE LOWER CONCO	URSE LEVEL - BBII - Z3	A12 (was BG-BB52420)	
■ BGS12-6110	BRACING REMOVAL - LEVEL A - BBII - Z3 A12 (was BG-BB52320)	5	30-Dec-14	07-Jan-15			BRACING REMOVAL - LEV	VEL A - BBII - Z3 A12 (w	as BG-BB52320)	
■ BGS12-6130	REMOVE REBRACE STRUT - LEVEL RA - Z3 A12			05-Nov-15			□ REM	IOVE REBRACE STRUT	- LEVEL RA - Z3 A12	
BGS ZONE 3	- APPURTENANCES	308	27-Oct-14	27-Jan-16						
■ BG-127100	ELEVATOR PITS, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZONE 3	10	27-Oct-14	07-Nov-14			■ ELEVATOR PITS, MECHANICA	AL AND STAIR PLATFOR	RMS TRAIN BOX - ZONE 3	
■ BG-189900	FORM AND PLACE PADS AND CURBS TRAIN BOX - ZONE 3	20	30-Oct-14	26-Nov-14			FORM AND PLACE PADS AN	ID CURBS TRAIN BOX -	ZONE 3	
■ BG-192900	HOIST #3 BLOCKOUT POUR BACK	5	21-Jan-16	27-Jan-16				HOIST #3 BLOCKOUT	POUR BACK	
BGS ZONE 4	(AREAS 13-16 / BUILDING LINES 25.5 TO 35.3)	677	20-Feb-14	09-Nov-16						
BGS ZONE 4	AREA 13 (BUILDING LINES 25.5-27.5)	451	20-Feb-14	14-Dec-15						
□ BGS ZONE	4 AREA 13 - MAT SLAB	61	20-Feb-14	15-May-14						
	WATERPROOFING - SLAB AND BASE OF WALLS - Z4 A13	10	20-Feb-14	05-Mar-14			■ WATERPROOFING - SLAB AND BASE OF WALL	S - Z4 A13		
	PROTECTION SLAB - Z4 A13		06-Mar-14		_		PROTECTION SLAB - Z4 A13			
	INSTALL REBAR - LOWER MAT - Z4 A13		24-Mar-14	31-Mar-14			I INSTALL REBAR - LOWER MAT - Z4 A13			
	IN-SLAB MEP - Z4 A13		01-Apr-14	04-Apr-14			I IN-SLAB MEP - Z4 A13			
	EDGE FORM / EMBEDS - Z4 A13		01-Apr-14	10-Apr-14			■ EDGE FORM / EMBEDS - Z4 A13			
	INSTALL REBAR - UPPER MAT - Z4 A13		· ·	14-Apr-14			I INSTALL REBAR - UPPER MAT - Z4 A13			
	MAT POUR - Z4 A13		19-Apr-14	20-Apr-14			MAT POUR - Z4 A13			
	MAT SLAB CURE FOR THERMAL CONTROL - Z4 A13		19-Apr-14	02-May-14			MAT SLAB CURE FOR THERMAL CONTROL	L - Z4 A13		
	MAT SLAB CURE FOR STRENGTH - Z4 A13		19-Apr-14	08-May-14			■ MAT SLAB CURE FOR STRENGTH - Z4 A13			
	STRIP EDGE FORM - Z4 A13		21-Apr-14		_		STRIP EDGE FORM - Z4 A13			
<u> </u>	OTMI EDGETONIN ZTATO		21 Apr-14	20 Api-14			I CHAIL EDGET CHAIL			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

A official LD	A stivity Name	1 05	Ctort	Finish			004.4	0045	0040	JOINT VENTUR	
Activity ID	Activity Name	OD	Start	Finish		N D	2014 JIFMANJJAISINID	2015 J F V A MJ J A S J N D	2016 		2018
	■ BGS13-1120 BRACING REMOVAL - LEVEL D - BBII - Z4 A13 (WD 25-28 / WD 44-47) (was BG-BB52520)	5	09-May-14	15-Mav-14		1-1		MOVAL - LEVEL D - BBII - 2			
	BGS ZONE 4 AREA 13 - WALLS/COLUMNS (TRAIN PLATFORM)		16-May-14	,						, ()	
	BGS ZONE 4 AREA 13 - WALLS (TRAIN PLATFORM)		16-May-14			+					
_	BGS13-4000 WALL WATERPROOFING - 1ST LIFT - Z4 A13	8	16-May-14	29-May-14			■ WALL WATER	 RPROOFING - 1ST LIFT - 2	 14 A13		
	■ BGS13-4010 WALL REBAR - 1ST LIFT (1 OF 2) - Z4 A13 (WD 25-28)	2			_			R - 1ST LIFT (1 OF 2) - Z4 /			
	BGS13-4020 WALL REBAR - 1ST LIFT (2 OF 2) - Z4 A13 (WD 44-47)	2	03-Jun-14	04-Jun-14	_			R - 1ST LIFT (2 OF 2) - Z4	, ,		
	BGS13-4030 FORM - 1ST LIFT - 1ST SECTION - Z4 A13	6	05-Jun-14	12-Jun-14	_			LIFT - 1ST SECTION - Z4			
	BGS13-4060 FORM - 1ST LIFT - 2ND SECTION - Z4 A13	6	05-Jun-14	12-Jun-14				LIFT - 2ND SECTION - Z4			
	BGS13-4040 POUR - 1ST LIFT - 1ST SECTION - Z4 A13	2	13-Jun-14	16-Jun-14	_		-	LIFT - 1ST SECTION - Z4			
	BGS13-4070 POUR - 1ST LIFT - 2ND SECTION - Z4 A13	2	13-Jun-14	16-Jun-14	_			LIFT - 2ND SECTION - Z4			
	BGS13-4050 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z4 A13	4	17-Jun-14	20-Jun-14	_			RIP - 1ST LIFT - 1ST SECT			
	BGS13-4080 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z4 A13	4	17-Jun-14	20-Jun-14	_			RIP - 1ST LIFT - 2ND SEC			
	BGS13-4200 CURE - 1ST LIFT - 2ND SECTION - Z4 A13	21	17-Jun-14	07-Jul-14				T LIFT - 2ND SECTION - Z			
	BGS13-4090 REBRACE TRAIN PLATFORM LEVEL - BBII - Z4 A13 (was BG-BB52720)	5	23-Jun-14	27-Jun-14	_			TRAIN PLATFORM LEVEL		R52720)	
	BGS13-4100 BRACING REMOVAL - LEVEL C - BBII - Z4 A13 (WC 25-28 / WC 44-47) (was BG-BB52620)	5	08-Jul-14	14-Jul-14	-			REMOVAL - LEVEL C - BE	,	,))
	BGS13-4110 WALL WATERPROOFING - 2ND LIFT - Z4 A13	8	15-Jul-14	24-Jul-14	_			TERPROOFING - 2ND LIF	,	7 44 41) (Was BS BB02020	
	BGS13-4120 WALL REBAR - 2ND LIFT (1 OF 2) - Z4 A13 (WC 25-28)	2	25-Jul-14	28-Jul-14	-		_	BAR - 2ND LIFT (1 OF 2) -			
	BGS13-4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z4 A13 (WC 44-47)	2	29-Jul-14	30-Jul-14				BAR - 2ND LIFT (2 OF 2) -	,		
	BGS13-4140 FORM - 2ND LIFT - 1ST SECTION - Z4 A13	6	01-Aug-14		_			2ND LIFT - 1ST SECTION	, , ,		
	BGS13-4170 FORM - 2ND LIFT - 2ND SECTION - Z4 A13	6			_			2ND LIFT - 2ND SECTION			
	BGS13-4150 POUR - 2ND LIFT - 1ST SECTION - Z4 A13	2	11-Aug-14		_			2ND LIFT - 1ST SECTION			
	BGS13-4180 POUR - 2ND LIFT - 2ND SECTION - Z4 A13	2	11-Aug-14		-			2ND LIFT - 2ND SECTION			
	BGS13-4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z4 A13	4	13-Aug-14				<u> </u>	STRIP - 2ND LIFT - 1ST			
	BGS13-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z4 A13	4	13-Aug-14	18-Aug-14	_			STRIP - 2ND LIFT - 2ND			
	BGS13-4210 REMOVE REBRACE STRUT - LEVEL RB - Z4 A13	10		22-Dec-14	_			REMOVE REBRACE STR			
	BGS ZONE 4 AREA 13 - COLUMNS (TRAIN PLATFORM)		30-May-14		_		_	REMOVE REDIVIOE OF	COT ELVEEND 247110		
_	BGS13-4500 COLUMN REBAR - Z4 A13	8	30-May-14	_	_		COLUMN RI	 FBAR - 74 A13			
	BGS13-4510 COLUMN ANCHOR BOLTS - Z4 A13	10	11-Jun-14	24-Jun-14				NCHOR BOLTS - Z4 A13			
	BGS13-4520 COLUMN FORM AND POUR - Z4 A13			07-Jul-14	_			FORM AND POUR - Z4 A1	3		
	BGS ZONE 4 AREA 13 - LOWER CONCOURSE SLAB		19-Aug-14				_ 0020mm				
	BGS13-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z4 A13		19-Aug-14				I F∩RM	AND SHORE - LC DECK A	8 WALL (1 OF 2) - 74 A13		
	BGS13-5020 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - 24 A13		26-Aug-14		_			AND SHORE - LC DECK A			
	BGS13-5010 REBAR - LC DECK A (1 OF 2) - Z4 A13		17-Sep-14	· ·	+	\dashv		AR - LC DECK A (1 OF 2) -		,	
	BGS13-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z4 A13		24-Sep-14		-			M AND SHORE - LC DEC		13	
	BGS13-5040 MEP - LC DECK A - Z4 A13		24-Sep-14 24-Sep-14		-			P - LC DECK A - Z4 A13	1 D & WALL (1 OI 2) - 24 P		
	BGS13-5050 REBAR - LC DECK A (2 OF 2) - Z4 A13		24-Sep-14 24-Sep-14	_	-			3AR - LC DECK A (2 OF 2)	74 A13		
	BGS13-5060 REBAR - LC DECK B (1 OF 2) - Z4 A13		01-Oct-14	07-Oct-14	-			AR - LC DECK B (1 OF 2)			
	BGS13-5000 REBAR - LC DECK B (T OF 2) - 24 A13		01-Oct-14	07-Oct-14		\dashv		M AND SHORE - LC DECI		13	
	BGS13-5080 POUR - LC DECK A & WAL - Z4 A13L	1	08-Oct-14	07-Oct-14 08-Oct-14	-			JR - LC DECK A & WAL - Z	` '		
	BGS13-5090 MEP - LC DECK B - Z4 A13	10	09-Oct-14	23-Oct-14	-			P - LC DECK B - Z4 A13			
	BGS13-5100 REBAR - LC DECK B (2 OF 2) - Z4 A13		09-Oct-14	23-Oct-14 23-Oct-14	-		_	BAR - LC DECK B (2 OF 2	 - 74 A13		
	BGS13-5110 CURE LC - DECK A - Z4 A13		09-Oct-14	29-Oct-14	-			JRE LC - DECK A - Z4 A13	1		
	BGS13-5120 POUR - LC DECK A - 24 A13	1	24-Oct-14	24-Oct-14	+ +	\dashv		UR - LC DECK B & WALL			
	BGS13-5130 CURE LC - DECK B 4 WALE - 24 A13	21	25-Oct-14	14-Nov-14	-			URE LC - DECK B - Z4 A1			
	BGS13-5140 STRIP LC - DECK A - Z4 A13		30-Oct-14	18-Nov-14	-			TRIP LC - DECK A - Z4 A1			
	BGS13-5150 STRIP LC - DECK B - Z4 A13		17-Nov-14		-			STRIP LC - DECK B - Z4 A			
			17-Nov-14				_	OTRI LO - DLOR B - Z4 F			
	BGS ZONE 4 AREA 13 - WALLS (LOWER CONCOURSE)	205	17-1100-14	14-Dec-15							

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

			1-	1			JOINT VENTURE	
Activity ID	Activity Name	OD	Start	Finish	AISIO	ND J	2014 2015 2016 2017 20 DJ FMAMJJASPNDJFMAMJJASPNDJFMAMJJASPNDJFMAMJJJASPNDJFM	2018 AMJJ
■ BGS13-600	0 BRACING REMOVAL - LEVEL B - BBII - Z4 A13 (WB 25-28 / WB 44-47) (was BG-BB52820)	5	17-Nov-14	21-Nov-14	╀		■ BRACING REMOVAL - LEVEL B - BBII - Z4 A13 (WB 25-28 / WB 44-47) (was BG-BB528:	
■ BGS13-60°	0 WALL WATERPROOFING - 3RD LIFT - Z4 A13	7	24-Nov-14	04-Dec-14			■ WALL WATERPROOFING - 3RD LIFT - Z4 A13	
■ BGS13-602	0 WALL REBAR (PHASE 1 OF 2) - Z4 A13 (WB 25-28)	2	05-Dec-14	08-Dec-14			■ WALL REBAR (PHASE 1 ФF 2) - Z4 A13 (WB 25-28)	
■ BGS13-603	0 WALL REBAR (PHASE 2 OF 2) - Z4 A13 (WB 44-47)	2	09-Dec-14	10-Dec-14			I WALL REBAR (PHASE 2 ΦF 2) - Z4 A13 (WB 44-47)	
■ BGS13-604	FORM - 1ST SECTION - Z4 A13	6	12-Dec-14	19-Dec-14			FORM - 1ST SECTION - Z4 A13	
■ BGS13-607	FORM - 2ND SECTION - Z4 A13	6	12-Dec-14	19-Dec-14			FORM - 2ND SECTION - Z4 A13	
■ BGS13-608	POUR - 2ND SECTION - Z4 A13	2	22-Dec-14	23-Dec-14			I POUR - 2ND SECTION - Z4 A13	
■ BGS13-608	POUR - 1ST SECTION - Z4 A13	2	22-Dec-14	23-Dec-14			I POUR - 1ST SECTION - Z4 A13	
■ BGS13-606	CURE & STRIP - 1ST SECTION - Z4 A13	4	24-Dec-14	31-Dec-14			CURE & STRIP - 1ST SECTION - Z4 A13	
■ BGS13-609	CURE & STRIP - 2ND SECTION - Z4 A13	4	24-Dec-14	31-Dec-14			CURE & STRIP - 2ND SECTION - Z4 A13	
■ BGS13-612	CURE - 2ND SECTION - Z4 A13	21	24-Dec-14	13-Jan-15			CURE - 2ND SECTION - Z4 A13	
■ BGS13-610	REBRACE LOWER CONCOURSE LEVEL - BBII - Z4 A13 (was BG-BB53020)	5	05-Jan-15	09-Jan-15			REBRACE LOWER CONCOURSE LEVEL - BBII - Z4 A13 (was BG-BB53020)	
■ BGS13-61 ²	BRACING REMOVAL - LEVEL A - BBII - Z4 A13 (was BG-BB52920)	5	14-Jan-15	21-Jan-15			■ BRACING REMOVAL - LEVEL A - BBII - Z4 A13 (was BG-BB52920)	
■ BGS13-613	REMOVE REBRACE STRUT - LEVEL RA - Z4 A13	10	01-Dec-15	14-Dec-15			■ REMOVE REBRACE STRUT - LEVEL RA - Z4 A13	
BGS ZONE	4 AREA 14 (BUILDING LINES 27.5-30.5)	457	19-Mar-14	22-Jan-16				
	E 4 AREA 14 - MAT SLAB	52	19-Mar-14	02-Jun-14				
	0 WATERPROOFING - SLAB AND BASE OF WALLS - Z4 A14	10	19-Mar-14	01-Apr-14			■ WATERPROOFING - SLAB AND BASE OF WALLS - Z4 A14	
	0 PROTECTION SLAB - Z4 A14		02-Apr-14	03-Apr-14	1		PROTECTION SLAB - Z4 A14	
	0 INSTALL REBAR - LOWER MAT - Z4 A14		04-Apr-14	15-Apr-14			INSTALL REBAR - LOWER MAT - Z4 A14	
	0 IN-SLAB MEP - Z4 A14	3	16-Apr-14	18-Apr-14	-		I IN-SLAB MEP - Z4 A14	
	0 EDGE FORM / EMBEDS - Z4 A14	8	16-Apr-14	25-Apr-14			DEDGE FORM / EMBEDS - Z4 A14	
	0 INSTALL REBAR - UPPER MAT - Z4 A14	8	21-Apr-14	30-Apr-14	-		I INSTALL REBAR - UPPER MAT - Z4 A14	
	0 MAT POUR - Z4 A14		· '	04-May-14	-		I MAT POUR - Z4 A14	
	5 MAT SLAB CURE FOR THERMAL CONTROL - Z4 A14		-	,			MAT SLAB CURE FOR THERMAL CONTROL - Z4 A14	
	0 MAT SLAB CURE FOR STRENGTH - Z4 A14	20	03-May-14	-	-		MAT SLAB CURE FOR STRENGTH - Z4 A14	
	0 STRIP EDGE FORM - Z4 A14		05-May-14				STRIP EDGE FORM - Z4 A14	
	0 BRACING REMOVAL - LEVEL D - BBII - Z4 A14 (WD 28-31 / WD 41-44) (was BG-BB53120)		27-May-14	-			■ BRACING REMOVAL - LEVEL D - BBII - Z4 A14 (WD 28-31 / WD 41-44) (was BG-BB53120)	
	E 4 AREA 14 - WALLS/COLUMNS (TRAIN PLATFORM)			07-Jan-15			2 BIVIONO NEIMOVAE EEVEE B BBII 247/14 (WB 20 017 WB 41 44) (Wad BG BB00120)	
	4 AREA 14 - COLUMNS (TRAIN PLATFORM)		13-Jun-14		4			
	00 COLUMN REBAR - Z4 A14		13-Jun-14	-	-		COLUMN REBAR - Z4 A14	
	10 COLUMN ANCHOR BOLTS - Z4 A14		25-Jun-14				COLUMN ANCHOR BOLTS - Z4 A14	
	20 COLUMN FORM AND POUR - Z4 A14		10-Jul-14	21-Jul-14	-		COLUMN FORM AND POUR - Z4 A14	
	4 AREA 14 - WALLS (TRAIN PLATFORM)			07-Jan-15	-		GOLDININ I ONIN AND I GON - 24 A 14	
	00 WALL WATERPROOFING - 1ST LIFT - Z4 A14		03-Jun-14	12-Jun-14	-		■ WALL WATERPROOFING - 1ST LIFT - Z4 A14	
	10 WALL REBAR - 1ST LIFT (1 OF 2) - Z4 A14 (WD 28-31)	2	13-Jun-14	16-Jun-14	-		WALL REBAR - 1ST LIFT (1 OF 2) - Z4 A14 (WD 28-31)	
	20 WALL REBAR - 1ST LIFT (2 OF 2) - Z4 A14 (WD 41-44)		17-Jun-14	18-Jun-14			WALL REBAR - 1ST LIFT (2 OF 2) - Z4 A14 (WD 41-44)	
	30 FORM - 1ST LIFT - 1ST SECTION - Z4 A14		23-Jun-14	03-Jul-14	-		FORM - 1ST LIFT - 1ST SECTION - Z4 A14	
	60 FORM - 1ST LIFT - 2ND SECTION - Z4 A14	_	23-Jun-14	03-Jul-14	-		FORM - 1ST LIFT - 2ND SECTION - Z4 A14	
	40 POUR - 1ST LIFT - 1ST SECTION - Z4 A14	3	07-Jul-14	09-Jul-14	-		POUR - 1ST LIFT - 1ST SECTION - Z4 A14	
	70 POUR - 1ST LIFT - 2ND SECTION - Z4 A14	3	07-Jul-14	09-Jul-14	-		POUR - 1ST LIFT - 2ND SECTION - Z4 A14	
	30 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z4 A14	6	10-Jul-14	17-Jul-14	-		URE & STRIP - 1ST LIFT - 2ND SECTION - Z4 A14	
	50 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z4 A14	6	10-Jul-14	17-Jul-14	-		CURE & STRIP - 1ST LIFT - 2ND SECTION - 24 A14	
	00 CURE - 1ST LIFT - 1ST SECTION - 24 A14	-		_	- 1		CURE 4 STRIP - 1ST LIFT - 1ST SECTION - 24 A14	
			10-Jul-14	30-Jul-14	- 1			
	90 REBRACE TRAIN PLATFORM LEVEL - BBII - Z4 A14 (was BG-BB53320)	5	18-Jul-14	24-Jul-14	-		REBRACE TRAIN PLATFORM LEVEL - BBII - Z4 A14 (Was BG-BB53320)	
	00 BRACING REMOVAL - LEVEL C - BBII - Z4 A14 (WC 28-31 / WC 41-44) (was BG-BB53220)		31-Jul-14	06-Aug-14	\vdash		BRACING REMOVAL - LEVEL C - BBII - Z4 A14 (WC 28-31 / WC 41-44) (was BG-BB53220)	
	10 WALL WATERPROOFING - 2ND LIFT - Z4 A14	_	07-Aug-14		- 1		WALL WATERPROOFING - 2ND LIFT - Z4 A14	
BGS14-41	20 WALL REBAR - 2ND LIFT (1 OF 2) - Z4 A14 (WC 28-31)	2	19-Aug-14	∠∪-Aug-14			WALL REBAR - 2ND LIFT (1 OF 2) - Z4 A14 (WC 28-31)	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	اراما	ИID	2014 2015			2018
■ RGS14-A	4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z4 A14 (WC 41-44)	2	21-Aug-14	22-Aug-14	ASS	טויון	JFMAMJJASONDJFMAMJJASOND WALL REBAR - 2ND LIFT (2 OF 2			J ' ' A V J
	1140 FORM - 2ND LIFT - 1ST SECTION - Z4 A14		25-Aug-14		-		FORM - 2ND LIFT - 1ST SECTION	1		
	4170 FORM - 2ND LIFT - 2ND SECTION - Z4 A14	0	25-Aug-14 25-Aug-14		-		FORM - 2ND LIFT - 2ND SECTION			
	4150 POUR - 2ND LIFT - 1ST SECTION - Z4 A14	3	09-Sep-14	·	_		POUR - 2ND LIFT - 1ST SECTION			
		-	· ·	<u>-</u>	_		POUR - 2ND LIFT - 1ST SECTION			
	4180 POUR - 2ND LIFT - 2ND SECTION - Z4 A14	3	<u> </u>	11-Sep-14 19-Sep-14	_		CURE & STRIP - 2ND LIFT - 1S			
	4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z4 A14 4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z4 A14	6	12-Sep-14	•	_		CURE & STRIP - 2ND LIFT - 18			
		6	12-Sep-14	19-Sep-14	- 1		_			
	4210 REMOVE REBRACE STRUT - LEVEL RB - Z4 A14	10			_		REMOVE REBRACE S	IRUI - LEVEL RB - Z4 A12	•	
	NE 4 AREA 14 - LOWER CONCOURSE SLAB		22-Sep-14				I FORM AND QUODE TO BE O	(
	000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z4 A14	-	22-Sep-14	<u> </u>	_		FORM AND SHORE - LC DECK	, , ,	114	
	010 REBAR - LC DECK A (1 OF 2) - Z4 A14	5	29-Sep-14	03-Oct-14	_		REBAR - LC DECK A (1 OF 2)			
	D20 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z4 A14	5	29-Sep-14	03-Oct-14	_		FORM AND SHORE - LC DEC			
	O30 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z4 A14	5	06-Oct-14	10-Oct-14			I FORM AND SHORE - LC DEC	CK B & WALL (1 OF 2) - Z4	A14	
	040 MEP - LC DECK A - Z4 A14	-	111111	20-Oct-14	_		■ MEP - LC DECK A - Z4 A14			
	050 REBAR - LC DECK A (2 OF 2) - Z4 A14	10	06-Oct-14	20-Oct-14	_		REBAR - LC DECK A (2 OF 2			
	060 REBAR - LC DECK B (1 OF 2) - Z4 A14	5	14-Oct-14	20-Oct-14	_		REBAR - LC DECK B (1 OF 2	2) - Z4 A14		
■ BGS14-50	970 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z4 A14	5	14-Oct-14	20-Oct-14	_		FORM AND SHORE - LC DE	,	A14	
	080 POUR - LC DECK A & WALL - Z4 A14	1	21-Oct-14	21-Oct-14			I POUR - LC DECK A & WALL			
■ BGS14-50	090 MEP - LC DECK B - Z4 A14	10	22-Oct-14	04-Nov-14			■ MEP - LC DECK B - Z4 A14			
■ BGS14-51	100 REBAR - LC DECK B (2 OF 2) - Z4 A14	10	22-Oct-14	04-Nov-14			REBAR - LC DECK B (2 OF	2) - Z4 A14		
■ BGS14-51	110 CURE LC - DECK A - Z4 A14	21	22-Oct-14	11-Nov-14			CURE LC - DECK A - Z4 A1	4		
■ BGS14-51	120 POUR - LC DECK B & WALL - Z4 A14	1	05-Nov-14	05-Nov-14			I POUR - LC DECK B & WALI	- Z4 A14		
■ BGS14-51	130 CURE LC - DECK B - Z4 A14	21	06-Nov-14	26-Nov-14			CURE LC - DECK B - Z4 A	14		
■ BGS14-51	140 STRIP LC - DECK A - Z4 A14	14	12-Nov-14	03-Dec-14			STRIP LC - DECK A - Z4 /	A14		
■ BGS14-51	150 STRIP LC - DECK B - Z4 A14	14	01-Dec-14	18-Dec-14			STRIP LC - DECK B - Z4	A14		
💾 BGS ZOI	NE 4 AREA 14 - WALLS (LOWER CONCOURSE)	282	01-Dec-14	22-Jan-16						
■ BGS14-60	000 BRACING REMOVAL - LEVEL B - BBII - Z4 A14 (WB 28-31 / WB 41-44) (was BG-BB53420)	5	01-Dec-14	05-Dec-14			■ BRACING REMOVAL - LE	VEL B - BBII - Z4 A14 (WB	28-31 / WB 41-44) (was BC	-BB53420)
■ BGS14-60	010 WALL WATERPROOFING - 3RD LIFT - Z4 A14	7	08-Dec-14	16-Dec-14			■ WALL WATERPROOFING	G - 3RD LIFT - Z4 A14		
■ BGS14-60	020 WALL REBAR (PHASE 1 OF 2) - Z4 A14 (WB 28-31)	2	17-Dec-14	18-Dec-14			I WALL REBAR (PHASE 1	OF 2) - Z4 A14 (WB 28-31)	
■ BGS14-60	030 WALL REBAR (PHASE 2 OF 2) - Z4 A14 (WB 41-44)	2	19-Dec-14	22-Dec-14			WALL REBAR (PHASE 2	OF 2) - Z4 A14 (WB 41-44	.)	
■ BGS14-60	040 FORM - 1ST SECTION - Z4 A14	9	05-Jan-15	15-Jan-15			■ FORM - 1ST SECTION	I - Z4 A14		
■ BGS14-60	070 FORM - 2ND SECTION - Z4 A14	9	05-Jan-15	15-Jan-15			■ FORM - 2ND SECTION	N - Z4 A14		
■ BGS14-60	080 POUR - 2ND SECTION - Z4 A14	3	16-Jan-15	21-Jan-15			POUR - 2ND SECTION	N - Z4 A14		
■ BGS14-60	050 POUR - 1ST SECTION - Z4 A14	3	16-Jan-15	21-Jan-15			■ POUR - 1ST SECTION	l - Z4 A14		
■ BGS14-60	060 CURE & STRIP - 1ST SECTION - Z4 A14	6	22-Jan-15	29-Jan-15			CURE & STRIP - 1ST	SECTION - Z4 A14		
■ BGS14-60	090 CURE & STRIP - 2ND SECTION - Z4 A14	6	22-Jan-15	29-Jan-15			CURE & STRIP - 2ND	SECTION - Z4 A14		
■ BGS14-61	120 CURE - 2ND SECTION - Z4 A14	21	22-Jan-15	11-Feb-15			■ CURE - 2ND SECTION	N - Z4 A14		
■ BGS14-61	100 REBRACE LOWER CONCOURSE LEVEL - BBII - Z4 A14 (was BG-BB53620)	5	30-Jan-15	05-Feb-15				ONCOURSE LEVEL - BBII	- Z4 A14 (was BG-BB5362)	Φ)
■ BGS14-61	110 BRACING REMOVAL - LEVEL A - BBII - Z4 A14 (was BG-BB53520)	5	12-Feb-15	19-Feb-15				L - LEVEL A - BBII - Z4 A14	(was BG-BB53520)	
■ BGS14-61	130 REMOVE REBRACE STRUT - LEVEL RA - Z4 A14	10	08-Jan-16	22-Jan-16				■ REMOVE REBRACE S	TRUT - LEVEL RA - Z4 A1	4
BGS ZON	IE 4 AREA 15 (BUILDING LINES 30.5-32.75)	472	02-Apr-14	29-Feb-16						
	NE 4 AREA 15 - MAT SLAB	60	02-Apr-14	26-Jun-14						
	040 WATERPROOFING - SLAB AND BASE OF WALLS - Z4 A15	10	02-Apr-14	15-Apr-14	_		■ WATERPROOFING - SLAB AND BASE OF	WALLS - Z4 A15		
	050 PROTECTION SLAB - Z4 A15		· ·	17-Apr-14			PROTECTION SLAB - Z4 A15			
	060 INSTALL REBAR - LOWER MAT - Z4 A15		01-May-14	· ·			INSTALL REBAR - LOWER MAT - Z4 A15	5		
	080 IN-SLAB MEP - Z4 A15		12-May-14		_		I IN-SLAB MEP - Z4 A15			
BGS 13-10	UOU INTOLAD WILF - Z4 ATJ	<u> </u>	12-11/1ay-14	14-1VIay-14			I IIV-OLAD IVIEF + Z4 A 10			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

											JOINT VENTUR	E
Activity ID		Activity Name	OD	Start	Finish			2014	2015	2016	2017	2018
							ND					JEMAMI
		EDGE FORM / EMBEDS - Z4 A15	8	12-May-14					/ EMBEDS - Z4 A15			
		INSTALL REBAR - UPPER MAT - Z4 A15	7		27-May-14				BAR - UPPER MAT - Z4 A1	5		
		MAT POUR - Z4 A15	2	31-May-14	_	_		MAT POUR -				
		MAT SLAB CURE FOR THERMAL CONTROL - Z4 A15		31-May-14					CURE FOR THERMAL CON			
		MAT SLAB CURE FOR STRENGTH - Z4 A15		31-May-14					CURE FOR STRENGTH - 2	24 A15		
		STRIP EDGE FORM - Z4 A15		02-Jun-14	04-Jun-14				FORM - Z4 A15			
		BRACING REMOVAL - LEVEL D - Z4 A15 (WD 31-33 / WD 39-41) (was BG-BB53720)	5	20-Jun-14	26-Jun-14			▮ BRACING	REMOVAL - LEVEL D - Z4	A15 (WD 31-33 / WD 39-41) (was BG-BB53720)	
		4 AREA 15 - WALLS/COLUMNS (TRAIN PLATFORM)		27-Jun-14								
		AREA 15 - WALLS (TRAIN PLATFORM)		27-Jun-14								
	BGS15-4000	WALL WATERPROOFING - 1ST LIFT - Z4 A15	8	27-Jun-14	09-Jul-14				TERPROOFING - 1ST LIFT			
	BGS15-4010	WALL REBAR - 1ST LIFT (1 OF 2) - Z4 A15 (WD 31-33)	2	10-Jul-14	11-Jul-14			I WALL RE	BAR - 1ST LIFT (1 OF 2) - 2	4 A15 (WD 31-33)		
	BGS15-4020	WALL REBAR - 1ST LIFT (2 OF 2) - Z4 A15 (WD 39-41)	2	14-Jul-14	15-Jul-14			I WALL RE	BAR - 1ST LIFT (2 OF 2) - 2	74 A15 (WD 39-41)		
	BGS15-4030	FORM - 1ST LIFT - 1ST SECTION - Z4 A15	9	16-Jul-14	28-Jul-14			■ FORM -	1ST LIFT - 1ST SECTION -	Z4 A15		
	BGS15-4060	FORM - 1ST LIFT - 2ND SECTION - Z4 A15	9	16-Jul-14	28-Jul-14			■ FORM -	1ST LIFT - 2ND SECTION -	- Z4 A15		
	BGS15-4040	POUR - 1ST LIFT - 1ST SECTION - Z4 A15	3	29-Jul-14	31-Jul-14			I POUR -	1ST LIFT - 1ST SECTION -	Z4 A15		
	BGS15-4070	POUR - 1ST LIFT - 2ND SECTION - Z4 A15	3	29-Jul-14	31-Jul-14			I POUR -	1ST LIFT - 2ND SECTION -	- Z4 A15		
	BGS15-4050	CURE & STRIP - 1ST LIFT - 1ST SECTION - Z4 A15	6	01-Aug-14	08-Aug-14			■ CURE 8	STRIP - 1ST LIFT - 1ST S	ECTION - Z4 A15		
	BGS15-4080	CURE & STRIP - 1ST LIFT - 2ND SECTION - Z4 A15	6	01-Aug-14	08-Aug-14			■ CURE 8	STRIP - 1ST LIFT - 2ND S	ECTION - Z4 A15		
	BGS15-4200	CURE - 1ST LIFT - 2ND SECTION - Z4 A15	21	01-Aug-14	21-Aug-14			■ CURE	- 1ST LIFT - 2ND SECTION	l - Z4 A15		
	BGS15-4090	REBRACE TRAIN PLATFORM LEVEL - BBII - Z4 A15 (was BG-BB53920)	5	11-Aug-14	15-Aug-14			I REBRA	CE TRAIN PLATFORM LE	VEL - BBII - Z4 A15 (was B	G-BB53920)	
	BGS15-4100	BRACING REMOVAL - LEVEL C - BBII - Z4 A15 (WC 31-33 / WC 39-41) (was BG-BB53820)	5	22-Aug-14	28-Aug-14			■ BRAC	ING REMOVAL - LEVEL C	BBII - Z4 A15 (WC 31-33	WC 39-41) (was BG-BB53	3820)
_	BGS15-4110	WALL WATERPROOFING - 2ND LIFT - Z4 A15	8	02-Sep-14	11-Sep-14			■ WALI	WATERPROOFING - 2ND	LIFT - Z4 A15		
	BGS15-4120	WALL REBAR - 2ND LIFT (1 OF 2) - Z4 A15 (WC 31-33)	2	12-Sep-14	15-Sep-14			I WAL	REBAR - 2ND LIFT (1 OF	2) - Z4 A15 (WC 31-33)		
	BGS15-4130	WALL REBAR - 2ND LIFT (2 OF 2) - Z4 A15 (WC 39-41)	2	16-Sep-14	17-Sep-14			I WAL	REBAR - 2ND LIFT (2 OF	2) - Z4 A15 (WC 39-41)		
=	BGS15-4140	FORM - 2ND LIFT - 1ST SECTION - Z4 A15	6	18-Sep-14	25-Sep-14			I FOR	M - 2ND LIFT - 1ST SECTI	ON - Z4 A15		
	BGS15-4170	FORM - 2ND LIFT - 2ND SECTION - Z4 A15	6	18-Sep-14	25-Sep-14			I FOR	M - 2ND LIFT - 2ND SECTI	ION - Z4 A15		
	BGS15-4150	POUR - 2ND LIFT - 1ST SECTION - Z4 A15	2	26-Sep-14	29-Sep-14			I POL	JR - 2ND LIFT - 1ST SECTI	ON - Z4 A15		
	BGS15-4180	POUR - 2ND LIFT - 2ND SECTION - Z4 A15	2	26-Sep-14	29-Sep-14			I POL	JR - 2ND LIFT - 2ND SECT	ION - Z4 A15		
=	BGS15-4160	CURE & STRIP - 2ND LIFT - 1ST SECTION - Z4 A15	4	30-Sep-14	03-Oct-14			I CUI	E & STRIP - 2ND LIFT - 1	ST SECTION - Z4 A15		
	BGS15-4190	CURE & STRIP - 2ND LIFT - 2ND SECTION - Z4 A15	4	30-Sep-14	03-Oct-14			I CUI	E & STRIP - 2ND LIFT - 21	D SECTION - Z4 A15		
_	BGS15-4210	REMOVE REBRACE STRUT - LEVEL RB - Z4 A15	10	13-Jan-15	27-Jan-15				■ REMOVE REBRACE S	TRUT - LEVEL RB - Z4 A1	5	
	BGS ZONE 4	AREA 15 - COLUMNS (TRAIN PLATFORM)	26	10-Jul-14	14-Aug-14							
	BGS15-4500	COLUMN REBAR - Z4 A15	8	10-Jul-14	21-Jul-14			■ COLUMN	REBAR - Z4 A15			
_	BGS15-4510	COLUMN ANCHOR BOLTS - Z4 A15	10	22-Jul-14	04-Aug-14			■ COLUM	N ANCHOR BOLTS - Z4 A1	5		
_	BGS15-4520	COLUMN FORM AND POUR - Z4 A15	8	05-Aug-14	14-Aug-14			■ COLUM	IN FORM AND POUR - Z4	A15		
- T-	BGS ZONE	4 AREA 15 - LOWER CONCOURSE SLAB	64	06-Oct-14	12-Jan-15							
	BGS15-5000	FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z4 A15	5	06-Oct-14	10-Oct-14			I FO	RM AND SHORE - LC DEC	K A & WALL (1 OF 2) - Z4	A15	
	BGS15-5020	FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z4 A15	5	14-Oct-14	20-Oct-14			I FO	RM AND SHORE - LC DEC	K A & WALL (2 OF 2) - Z4	A15	
	BGS15-5010	REBAR - LC DECK A (1 OF 2) - Z4 A15	5	21-Oct-14	27-Oct-14			■ R	BAR - LC DECK A (1 OF 2	2) - Z4 A15		
	BGS15-5030	FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z4 A15	5	28-Oct-14	03-Nov-14			I F	ORM AND SHORE - LC DE	CK B & WALL (1 OF 2) - Z	4 A15	
	BGS15-5040	MEP - LC DECK A - Z4 A15	10	28-Oct-14	10-Nov-14				EP - LC DECK A - Z4 A15			
	BGS15-5050	REBAR - LC DECK A (2 OF 2) - Z4 A15	10	28-Oct-14	10-Nov-14			□ F	EBAR - LC DECK A (2 OF	2) - Z4 A15		
	BGS15-5060	REBAR - LC DECK B (1 OF 2) - Z4 A15	5	04-Nov-14	10-Nov-14			1 F	REBAR - LC DECK B (1 OF	2) - Z4 A15		
	BGS15-5070	FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z4 A15	5	04-Nov-14	10-Nov-14			□ F	ORM AND SHORE - LC DE	CK B & WALL (2 OF 2) - 2	4 A15	
		POUR - LC DECK A & WALL - Z4 A15	1	-	11-Nov-14				OUR - LC DECK A & WALI	` '		
	BGS15-5090	MEP - LC DECK B - Z4 A15	10	12-Nov-14	25-Nov-14				MEP - LC DECK B - Z4 A15	<u> </u>		
		REBAR - LC DECK B (2 OF 2) - Z4 A15		12-Nov-14					REBAR - LC DECK B (2 OF			

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
ctivity ID	Activity Name	OD	Start	Finish	ผลว	NID				2018
■ BGS15-511	0 CURE LC - DECK A - Z4 A15	21	12-Nov-14	02-Dec-14	ASS	ן יי	JFMAMJJASONDJFMAMJJASOND CURE LC - DECK A - Z4 A			
BGS15-512	0 POUR - LC DECK B & WALL - Z4 A15	1	26-Nov-14	26-Nov-14			I POUR - LC DECK B & WA			
	0 CURE LC - DECK B - Z4 A15	21	27-Nov-14	17-Dec-14	_		CURE LC - DECK B - Z4			
	0 STRIP LC - DECK A - Z4 A15	14	03-Dec-14	22-Dec-14	-		STRIP LC - DECK A - Z4			
BGS15-515	0 STRIP LC - DECK B - Z4 A15	14	18-Dec-14	12-Jan-15	_		STRIP LC - DECK B - Z			
BGS ZONE	E 4 AREA 15 - WALLS (LOWER CONCOURSE)		18-Dec-14							
BGS15-600	0 BRACING REMOVAL - LEVEL B - BBII - Z4 A15 (WB 31-33 / WB 39-41) (was BG-BB54020)	5	18-Dec-14	24-Dec-14			BRACING REMOVAL - I	EVEL B - BBII - 74 A15 (W	 B 31-33 / WB 39-41) (was B	 BG-BB54020)
	0 WALL WATERPROOFING - 3RD LIFT - Z4 A15	7	29-Dec-14	08-Jan-15	_		■ WALL WATERPROOFI	,		220 .020,
BGS15-602	0 WALL REBAR (PHASE 1 OF 2) - Z4 A15 (WB 31-33)	2	09-Jan-15	12-Jan-15	_			1 OF 2) - Z4 A15 (WB 31-3	3)	
BGS15-603	0 WALL REBAR (PHASE 2 OF 2) - Z4 A15 (WB 39-41)	2	13-Jan-15	14-Jan-15	_			E 2 OF 2) - Z4 A15 (WB 39-4		
BGS15-604	0 FORM - 1ST SECTION - Z4 A15	6	30-Jan-15	06-Feb-15			FORM - 1ST SECTION	, ,	1)	
BGS15-004	0 FORM - 2ND SECTION - 24 A15	6	30-Jan-15	06-Feb-15	_		FORM - 2ND SECTION			
		-	09-Feb-15	10-Feb-15	_		POUR - 2ND SECTION			
DGS 15-606	0 POUR - 2ND SECTION - Z4 A15	2			_					
BGS15-605	0 POUR - 1ST SECTION - Z4 A15	2	09-Feb-15	10-Feb-15	_		POUR - 1ST SECTION			
BGS15-606	0 CURE & STRIP - 1ST SECTION - Z4 A15	4	11-Feb-15	17-Feb-15			CURE & STRIP - 1S			
BGS15-609	0 CURE & STRIP - 2ND SECTION - Z4 A15	4	11-Feb-15	17-Feb-15	_		CURE & STRIP - 2N			
BGS15-612	0 CURE - 2ND SECTION - Z4 A15	21	11-Feb-15	03-Mar-15	_		CURE - 2ND SECT			
■ BGS15-610	0 REBRACE LOWER CONCOURSE LEVEL - BBII - Z4 A15 (was BG-BB54220)	5	18-Feb-15	24-Feb-15	_				II - Z4 A15 (was BG-BB542	20)
■ BGS15-611	0 BRACING REMOVAL - LEVEL A - BBII - Z4 A15 (was BG-BB54120)	5	04-Mar-15	10-Mar-15	_		▮ BRACING REMOV	AL - LEVEL A - BBII - Z4 A	` '	
■ BGS15-613	0 REMOVE REBRACE STRUT - LEVEL RA - Z4 A15	10	16-Feb-16	29-Feb-16				REMOVE REBRAC	STRUT - LEVEL RA - Z4	A15
BGS ZONE	4 AREA 16 (BUILDING LINES 30.5-35)	452		14-Mar-16						
BGS ZONE	E 4 AREA 16 - MAT SLAB	49	14-May-14	24-Jul-14						
■ BGS16-104	0 WATERPROOFING - SLAB AND BASE OF WALLS - Z4 A16	10	14-May-14	29-May-14			WATERPROOFING - SLAB AND BASE	OF WALLS - Z4 A16		
■ BGS16-105	0 PROTECTION SLAB - Z4 A16	2	30-May-14	02-Jun-14			PROTECTION SLAB - Z4 A16			
■ BGS16-106	0 INSTALL REBAR - LOWER MAT - Z4 A16	7	03-Jun-14	11-Jun-14			INSTALL REBAR - LOWER MAT - Z4 A	A16		
■ BGS16-108	0 IN-SLAB MEP - Z4 A16	4	12-Jun-14	17-Jun-14			I IN-SLAB MEP - Z4 A16			
■ BGS16-109	0 EDGE FORM / EMBEDS - Z4 A16	8	12-Jun-14	23-Jun-14			■ EDGE FORM / EMBEDS - Z4 A16			
■ BGS16-107	0 INSTALL REBAR - UPPER MAT - Z4 A16	7	18-Jun-14	26-Jun-14			I INSTALL REBAR - UPPER MAT - Z4	A16		
■ BGS16-110	0 MAT POUR - Z4 A16	2	28-Jun-14	29-Jun-14			I MAT POUR - Z4 A16			
■ BGS16-115	0 MAT SLAB CURE FOR STRENGTH - Z4 A16	20	28-Jun-14	17-Jul-14			■ MAT SLAB CURE FOR STRENGTH	Z4 A16		
	0 STRIP EDGE FORM - Z4 A16	3	30-Jun-14	02-Jul-14			STRIP EDGE FORM - Z4 A16			
■ BGS16-112	0 BRACING REMOVAL - LEVEL D - Z4 A16 (WD 33-34 / WD 38-39) (was BG-BB54320)	5	18-Jul-14	24-Jul-14			■ BRACING REMOVAL - LEVEL D - Z	Z4 A16 (WD 33-34 / WD 38-	39) (was BG-BB54320)	
BGS ZONE	E 4 AREA 16 - INSTALL SEISMIC JOINT	243	12-Jun-14	05-Jun-15				·		
BGS16-120	0 INSTALL SEISMIC JOINT EMBEDS - MAT SLAB - Z4 A16	10	12-Jun-14	25-Jun-14			■ INSTALL SEISMIC JOINT EMBEDS -	MAT SLAB - Z4 A16		
BGS16-121	0 INSTALL SEISMIC JOINT EMBEDS - WALLS 1ST LIFT - Z4 A16	5	09-Sep-14	15-Sep-14			I INSTALL SEISMIC JOINT EMBI		4 A16	
BGS16-122	0 INSTALL SEISMIC JOINT EMBEDS - WALLS 2ND LIFT - Z4 A16	5	23-Dec-14	31-Dec-14				T EMBEDS - WALLS 2ND		
■ BGS16-123	0 INSTALL SEISMIC JOINT EMBEDS - LOWER CONCOURSE WALLS - Z4 A16	5	07-May-15	13-May-15			I INSTALL SEIS	SMIC JOINT EMBEDS - LO	WER CONCOURSE WALLS	S - Z4 A16
■ BGS16-124	0 INSTALL SEISMIC JOINT (SLAB & WALLS) - Z4 A16	20	07-May-15		_			ISMIC JOINT (SLAB & WA		
BGS ZONE	E 4 AREA 16 - WALLS/COLUMNS (TRAIN PLATFORM)		25-Jul-14	16-Apr-15				(3= := 3: ****	,	
BGS ZONE	4 AREA 16 - WALLS (TRAIN PLATFORM)	179		16-Apr-15						
BGS16-400	00 WALL WATERPROOFING - 1ST LIFT - Z4 A16	8	25-Jul-14	05-Aug-14			■ WALL WATERPROOFING - 1ST L	IFT - 74 A16		
BGS16-40	10 WALL REBAR - 1ST LIFT (1 OF 2) - Z4 A16 (WD 33-34)	3	06-Aug-14	08-Aug-14	_		WALL REBAR - 1ST LIFT (1 OF 2)			
BCS16-40	20 WALL REBAR - 1ST LIFT (2 OF 2) - Z4 A16 (WD 33-34)	3	11-Aug-14	13-Aug-14	-		WALL REBAR - 1ST LIFT (2 OF 2)			
BCS16-40	30 FORM - 1ST LIFT (2 OF 2) - 24 A16 (WD 36-39)	12		02-Sep-14	_		FORM - 1ST LIFT (2 OF 2)	,		
DCS16-40			14-Aug-14	· ·	_		POUR - 1ST LIFT - 1ST SECTION			
	40 POUR - 1ST LIFT - 1ST SECTION - Z4 A16	4	03-Sep-14	08-Sep-14						
■ BGS16-408	50 CURE & STRIP - 1ST LIFT - 1ST SECTION - Z4 A16	8	09-Sep-14	18-Sep-14			CURE & STRIP - 1ST LIFT - 1S	3ECTION - 24 A16		

Page: 28 of 86

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

		2 0 2 0 1 2 2 2 2 2								JOINT VENTUR	
Activity ID	Activity Name	OE	Start	Finish		ND	2014	2015	2016	2017	2018
	— DCC46 4060 FORM 45T LIFT 2ND SECTION 74 A46	12	16 Con 14	01 Oct 14		NPJ				7115141411141141	
	BGS16-4060 FORM - 1ST LIFT - 2ND SECTION - Z4 A16 BGS16-4070 POUR - 1ST LIFT - 2ND SECTION - Z4 A16	12	16-Sep-14		_			ORM - 1ST LIFT - 2ND SECT OUR - 1ST LIFT - 2ND SECT			
		· '	02-Oct-14	07-Oct-14	_						
ш	BGS16-4080 CURE & STRIP - 1ST LIFT - 2ND SECTION - Z4 A16	8	08-Oct-14	20-Oct-14	_			URE & STRIP - 1ST LIFT -			
	BGS16-4200 CURE - 1ST LIFT - 2ND SECTION - Z4 A16	21		28-Oct-14				CURE - 1ST LIFT - 2ND SE		DO DD54500)	
	BGS16-4090 REBRACE TRAIN PLATFORM LEVEL - BBII - Z4 A16 (was BG-BB54520)	5	21-Oct-14	27-Oct-14	_				RM LEVEL - BBII - Z4 A16 (/	DD54420)
	BGS16-4100 BRACING REMOVAL - LEVEL C - BBII - Z4 A16 (WC 33-34 / WC 38-39) (was BG-BB54420)	5	1 1 1 1	04-Nov-14					EL C - BBII - Z4 A16 (WC 3	3-34 / WC 38-39) (was BG-	-8654420)
	BGS16-4110 WALL WATERPROOFING - 2ND LIFT - Z4 A16	8	05-Nov-14					WALL WATERPROOFING			
	BGS16-4120 WALL REBAR - 2ND LIFT (1 OF 2) - Z4 A16 (WC 33-34)	3	17-Nov-14						(1 OF 2) - Z4 A16 (WC 33-3	,	
	BGS16-4130 WALL REBAR - 2ND LIFT (2 OF 2) - Z4 A16 (WC 38-39)	3		24-Nov-14					(2 OF 2) - Z4 A16 (WC 38-3	39)	
	BGS16-4140 FORM - 2ND LIFT - 1ST SECTION - Z4 A16	9	25-Nov-14					FORM - 2ND LIFT - 1ST			
	BGS16-4170 FORM - 2ND LIFT - 2ND SECTION - Z4 A16	12						FORM - 2ND LIFT - 2ND			
	BGS16-4150 POUR - 2ND LIFT - 1ST SECTION - Z4 A16	3	10-Dec-14					POUR - 2ND LIFT - 1ST			
	BGS16-4180 POUR - 2ND LIFT - 2ND SECTION - Z4 A16	4	15-Dec-14					POUR - 2ND LIFT - 2ND			
	BGS16-4160 CURE & STRIP - 2ND LIFT - 1ST SECTION - Z4 A16	6	15-Dec-14		_				IFT - 1ST SECTION - Z4 A1		
	BGS16-4190 CURE & STRIP - 2ND LIFT - 2ND SECTION - Z4 A16	8	19-Dec-14						LIFT - 2ND SECTION - Z4 A		
	BGS16-4210 REMOVE REBRACE STRUT - LEVEL RB - Z4 A16	10		· ·				■ REMOVE REB	RACE STRUT - LEVEL RB -	Z4 A16	
	BGS ZONE 4 AREA 16 - COLUMNS (TRAIN PLATFORM)	26		12-Sep-14							
	BGS16-4500 COLUMN REBAR - Z4 A16	8		15-Aug-14				MN REBAR - Z4 A16			
	BGS16-4510 COLUMN ANCHOR BOLTS - Z4 A16	10	-	02-Sep-14	_			UMN ANCHOR BOLTS - Z4			
	BGS16-4520 COLUMN FORM AND POUR - Z4 A16	8	-	12-Sep-14			I COL	UMN FORM AND POUR - 2	Z4 A16		
	BGS ZONE 4 AREA 16 - LOWER CONCOURSE SLAB	61	06-Jan-15	02-Apr-15							
	BGS16-5000 FORM AND SHORE - LC DECK A & WALL (1 OF 2) - Z4 A16	5	06-Jan-15	12-Jan-15				FORM AND SHORE -	LC DECK A & WALL (1 OF	2) - Z4 A16	
	■ BGS16-5010 REBAR - LC DECK A (1 OF 2) - Z4 A16	5	13-Jan-15	20-Jan-15				REBAR - LC DECK A	(1 OF 2) - Z4 A16		
	■ BGS16-5020 FORM AND SHORE - LC DECK A & WALL (2 OF 2) - Z4 A16	5	13-Jan-15	20-Jan-15				I FORM AND SHORE -	LC DECK A & WALL (2 OF	2) - Z4 A16	
	BGS16-5030 FORM AND SHORE - LC DECK B & WALL (1 OF 2) - Z4 A16	5	21-Jan-15	27-Jan-15				I FORM AND SHORE	- LC DECK B & WALL (1 OF	2) - Z4 A16	
	■ BGS16-5040 MEP - LC DECK A - Z4 A16	10	21-Jan-15	03-Feb-15				■ MEP - LC DECK A - 2	Z4 A16		
	■ BGS16-5050 REBAR - LC DECK A (2 OF 2) - Z4 A16	10	21-Jan-15	03-Feb-15				REBAR - LC DECK A	(2 OF 2) - Z4 A16		
	■ BGS16-5060 REBAR - LC DECK B (1 OF 2) - Z4 A16	5	28-Jan-15	03-Feb-15				REBAR - LC DECK E	1 OF 2) - Z4 A16		
	BGS16-5070 FORM AND SHORE - LC DECK B & WALL (2 OF 2) - Z4 A16	5	28-Jan-15	03-Feb-15				■ FORM AND SHORE	- LC DECK B & WALL (2 OI	2) - Z4 A16	
	■ BGS16-5080 POUR - LC DECK A & WALL - Z4 A16	1	04-Feb-15	04-Feb-15				I POUR - LC DECK A	& WALL - Z4 A16		
	■ BGS16-5090 MEP - LC DECK B - Z4 A16	10	05-Feb-15	19-Feb-15				■ MEP - LC DECK B -	· 2 4 A16		
	■ BGS16-5100 REBAR - LC DECK B (2 OF 2) - Z4 A16	10	05-Feb-15	19-Feb-15				■ REBAR - LC DECK	B (2 OF 2) - Z4 A16		
	■ BGS16-5110 CURE LC - DECK A - Z4 A16	21	05-Feb-15	25-Feb-15				■ CURE LC - DECK	A - Z4 A16		
	■ BGS16-5120 POUR - LC DECK B & WALL - Z4 A16	1	20-Feb-15	20-Feb-15				I POUR - LC DECK E	3 & WALL - Z4 A16		
	■ BGS16-5130 CURE LC - DECK B - Z4 A16	21	21-Feb-15	13-Mar-15				■ CURE LC - DECK	B - Z4 A16		
	■ BGS16-5140 STRIP LC - DECK A - Z4 A16	14	26-Feb-15	17-Mar-15				STRIP LC - DECK	(A - Z4 A16		
	■ BGS16-5150 STRIP LC - DECK B - Z4 A16	14	16-Mar-15	02-Apr-15				■ STRIP LC - DEC	K B - Z4 A16		
	BGS ZONE 4 AREA 16 - WALLS (LOWER CONCOURSE)	24	3 16-Mar-15	14-Mar-16							
	BGS16-6000 BRACING REMOVAL - LEVEL B - BBII - Z4 A16 (WB 33-34 / WB 38-39) (was BG-BB54620)	5	16-Mar-15	20-Mar-15				■ BRACING REMO	VAL - LEVEL B - BBII - Z4 <i>F</i>	A16 (WB 33-34 / WB 38-39)) (was BG-BB54
	BGS16-6010 WALL WATERPROOFING - 3RD LIFT - Z4 A16	7	23-Mar-15	31-Mar-15				WALL WATERPI	ROOFING - 3RD LIFT - Z4 A	A16	
	■ BGS16-6020 WALL REBAR (PHASE 1 OF 2) - Z4 A16 (WB 33-34)	4	01-Apr-15	06-Apr-15				WALL REBAR (F	PHASE 1 OF 2) - Z4 A16 (W	/B 33-34)	
	BGS16-6030 WALL REBAR (PHASE 2 OF 2) - Z4 A16 (WB 38-39)	4	07-Apr-15	10-Apr-15				I WALL REBAR (PHASE 2 OF 2) - Z4 A16 (W	/B 38-39)	
	■ BGS16-6040 FORM - 1ST SECTION - Z4 A16	9	13-Apr-15	23-Apr-15				FORM - 1ST S	ECTION - Z4 A16		
	■ BGS16-6050 POUR - 1ST SECTION - Z4 A16	3	24-Apr-15	28-Apr-15				POUR - 1ST S	ECTION - Z4 A16		
	■ BGS16-6060 CURE & STRIP - 1ST SECTION - Z4 A16		29-Apr-15						P - 1ST SECTION - Z4 A16		
	■ BGS16-6070 FORM - 2ND SECTION - Z4 A16		07-May-15						SECTION - Z4 A16		
	■ BGS16-6080 POUR - 2ND SECTION - Z4 A16			01-Jun-15					SECTION - Z4 A16		

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

						JOINT VENTURE
ctivity ID	Activity Name	OD	Start	Finish		2014 2015 2016 2017 2018 DIND J F M A M J J A S D N D J F M A M J J A S D N D J F M A M J J A S D N D J F M A M J J A S D N D J F M A M
BGS16-6090	CURE & STRIP - 2ND SECTION - Z4 A16	8	02-Jun-15	11-Jun-15	١٨١٩٠	CURE & STRIP - 2ND SECTION - Z4 A16
	CURE - 2ND SECTION - Z4 A16	21	02-Jun-15	22-Jun-15	_	CURE - 2ND SECTION - Z4 A16
	REBRACE LOWER CONCOURSE LEVEL - BBII - Z4 A16 (was BG-BB54820)	5	12-Jun-15	18-Jun-15		■ REBRACE LOWER CONCOURSE LEVEL - BBII - Z4 A16 (was BG-BB54820)
	BRACING REMOVAL - LEVEL A - BBII - Z4 A16 (was BG-BB54720)	5	23-Jun-15	29-Jun-15	_	■ BRACING REMOVAL - LEVEL A - BBII - Z4 A16 (was BG-BB54720)
	REMOVE REBRACE STRUT - LEVEL RA - Z4 A16	10	01-Mar-16			REMOVE REBRACE STRUT - LEVEL RA - Z4 A16
			30-Jun-15	09-Nov-16		REMOVE REBRAGE STROT - LEVEL RA - 24 ATO
	4 - APPURTENANCES					FLEVATOR RITE MECHANICAL AND STAIR REATFORMS TRAIN ROY. 7
BG-190100	ELEVATOR PITS, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZONE 4		30-Jun-15			ELEVATOR PITS, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZO
BG-190000	FORM AND PLACE PADS AND CURBS TRAIN BOX - ZONE 4	20		28-Jul-15	_	FORM AND PLACE PADS AND CURBS TRAIN BOX - ZONE 4
	HOIST #4 BLOCKOUT POUR BACK	5	03-Nov-16			I HOIST #4 BLOCKOUT POUR BACK
	JND SUPERSTRUCTURE		14-Jul-14	18-Aug-17		
ABOVIE GRO	DUND SUPERSTRUCTURE SUMMARY		21-Jul-14	21-Jul-14		
SS-200000	STEEL ERECTION START	0	21-Jul-14			◆ STEEL ERECTION START
RAIL CRANE	S S	546	27-May-15	04-Aug-17		
RC-100100	INSTALL CRANE SUPPORTS / RAILS - WEST	20	27-May-15	23-Jun-15		■ INSTALL CRANE SUPPORTS / RAILS - WEST
RC-100200	ERECT RAIL CRANE - #1	10	24-Jun-15	08-Jul-15		■ ERECT RAIL CRANE - #1
RC-300200	INSTALL CRANE SUPPORTS / RAILS - CENTRAL	20	24-Jun-15	22-Jul-15		■ INSTALL CRANE SUPPORTS / RAILS - CENTRAL
RC-100700	ERECT PLATFORM AT LINE 3 (GROUND TO BUS LEVEL)	15	09-Jul-15	29-Jul-15		■ ERECT PLATFORM AT LINE 3 (GROUND TO BUS LEVEL)
RC-100300	RAIL CRANE IN USE (LOE) - #1	449	09-Jul-15	27-Apr-17		RAIL CRANE IN USE (LOE)
RC-300300	ERECT RAIL CRANE - #2	10	23-Jul-15	05-Aug-15		■ ERECT RAIL CRANE - #2
RC-300500	RAIL CRANE IN USE (LOE) - #2	476	06-Aug-15	07-Jul-17		RAIL CRANE IN USE (I
RC-301000	INSTALL CRANE SUPPORTS / RAILS - EAST	20	23-Feb-16	21-Mar-16		■ INSTALL CRANE \$UPPORTS / RAILS - EAST
RC-100400	DISMANTLE RAIL CRANE - #1	10	28-Apr-17	11-May-17		☐ DISMANTLE RAIL CRANE
RC-100800	DISMANTLE PLATFORM AT LINE 3 (GROUND TO BUS LEVEL) - WEST	10	28-Apr-17	11-May-17		■ DISMANTLE PLATFORM A
RC-100500	REMOVE SUPPORTS / RAIL - WEST	10	12-May-17	25-May-17		■ REMOVE SUPPORTS / R.
RC-300600	DISMANTLE RAIL CRANE - #2	10	10-Jul-17	21-Jul-17		■ DISMANTLE RAIL CR
RC-300800	REMOVE SUPPORTS / RAIL - CENTRAL	10	24-Jul-17	04-Aug-17		■ REMOVE SUPPORT
RC-301400	REMOVE SUPPORTS / RAIL - EAST	10	24-Jul-17	04-Aug-17		■ REMOVE SUPPORT
SUPERSTRU	ICTURE WEST ZONE (W) (BUILDING LINES 1 - 10)	723	14-Jul-14	12-Jun-17		
	UCTURE AREA W5 (BUILDING LINES 9 - 10)	222	14-Jul-14	05-Jun-15		
₩5 ERECT	STRUCT STEEL	35	14-Jul-14	02-Sep-14		
SS-105020	REMOVE TRESTLE W5	5	14-Jul-14	18-Jul-14		■ REMOVE TRESTLE W5
SS-105040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) W5	10	21-Jul-14	01-Aug-14		STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) W5
SS-105060	PLUMB/LINE W5	10	04-Aug-14	15-Aug-14		■ PLUMB/LINE W5
SS-318380	STRUCTURAL STEEL WELDING W5		04-Aug-14		_	STRUCTURAL STEEL WELDING W5
₩5 GROUN	ID LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	166	03-Sep-14	05-May-15		
	DECKING/CLOSURE MTL/NELSON STUDS - GROUND W5		03-Sep-14			DECKING/CLOSURE MTL/NELSON STUDS - GROUND W5
SS-001510	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W5	5	· ·	25-Nov-14	_	WALL WATERPROOFING LOWER CONCOURSE 2ND LIFT - W5
SS-001520	WALL REBAR - LOWER CONCOURSE 2ND LIFT - W5	10				WALL REBAR - LOWER CONCOURSE 2ND LIFT - W5
SS-001530	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W5	10			_	■ WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W5
SS-105140	EYEBROW FORMWORK - GROUND W5	10		13-Mar-15	_	EYEBROW FORMWORK - GROUND W5
SS-105180	REBAR & MEP: EYEBROW & DECK - GROUND W5		02-Mar-15	20-Mar-15	_	REBAR & MEP: EYEBROW & DECK - GROUND W5
SS-105200	POUR EYEBROW & METAL DECK - GROUND W5	2	23-Mar-15	24-Mar-15	_	POUR EYEBROW & METAL DECK - GROUND W5
SS-105220	LAYOUT & CONTROL - GROUND W5	5	25-Mar-15	31-Mar-15		LAYOUT & CONTROL - GROUND W5
SS-105220	CURE & STRIP EYEBROW - GROUND W5		25-Mar-15		-	□ CURE & STRIP EYEBROW - GROUND W5
SS-105240	INSTALL TRACK. CLIPS & HANGERS - GROUND W5		01-Apr-15	14-Apr-15	-	INSTALL TRACK, CLIPS & HANGERS - GROUND W5
			<u> </u>	<u> </u>	_	SPRAY ON FIREPROOFING - UNDERSIDE OF LEVEL 2 - W5
SS-105280	SPRAY ON FIREPROOFING - UNDERSIDE OF LEVEL 2 - W5	10	15-Apr-15	28-Apr-15		SPRAY ON FIREPROOFING - UNDERSIDE OF LEVEL 2 - WS

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

	1		1 -	1	_				JOINI VENIUR	
Activity ID	Activity Name	OD	Start	Finish	AISIC	ND	2014 2015 JFMAMJJASPNDJFVAMJJASPND	2016 JJFMAMJJJASDND	2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017 2017	2018 JFMAMJJ
SS-105300	FORM AND PLACE CURBS W5	5	29-Apr-15	05-May-15	1/19		I FORM AND PL			
SS-308080	(FINISH) GRND LVL - DECK W5	1					I (FINISH) GRND	LVL - DECK W5		
□ W5 LEVEL	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	151	26-Sep-14	07-May-15						
SS-105360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W5	10	26-Sep-14	09-Oct-14			■ DECKING/CLOSURE MTL/NEI	LSON STUDS - LEVEL 2 W	/5	
SS-105380	REBAR & MEP - LEVEL 2 W5		16-Dec-14	09-Jan-15			REBAR & MEP - LEVEL	2 W5		
SS-105400	POUR SLAB ON METAL DECK - LEVEL 2 W5	2	25-Mar-15	26-Mar-15			I POUR SLAB ON N	IETAL DECK - LEVEL 2 W	5 5	
SS-105420	LAYOUT & CONTROL - LEVEL 2 W5	5	27-Mar-15	02-Apr-15			LAYOUT & CONT	ROL - LEVEL 2 W5		
SS-105440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W5	10	03-Apr-15	16-Apr-15			■ INSTALL TRACK	, CLIPS & HANGERS - LE	VEL 2 W5	
SS-105460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK W5	10	17-Apr-15	30-Apr-15			■ SPRAY ON FIR	EPROOFING - UNDERSID	E OF BUS DECK W5	
SS-304770	FORM AND PLACE - DECK W5	5	01-May-15	07-May-15			▮ FORM AND PL	ACE - DECK W5		
₽ W5 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	160	10-Oct-14	05-Jun-15						
SS-105520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W5	10	10-Oct-14	24-Oct-14			■ DECKING/CLOSURE MTL/NE	LSON STUDS - BUS DEC	K W5	
SS-105540	REBAR & MEP - BUS LEVEL W5	15	12-Jan-15	02-Feb-15			■ REBAR & MEP - BUS	LEVEL W5		
SS-105560	POUR 10" SLAB ON METAL DECK - BUS LEVEL W5	2	27-Mar-15	30-Mar-15			I POUR 10" SLAB (N METAL DECK - BUS LE	VEL W5	
SS-105860	CURE 10" SLAB - BUS DECK W5	28	31-Mar-15	27-Apr-15			CURE 10" SLAE	- BUS DECK W5		
SS-105960	POUR 4" COMPOSITE SLAB - BUS LEVEL W5	2	28-Apr-15	29-Apr-15			I POUR 4" COMF	OSITE SLAB - BUS LEVE	W5	
SS-105580	LAYOUT & CONTROL - BUS LEVEL W5	5	30-Apr-15	06-May-15			LAYOUT & CO	NTROL - BUS LEVEL W5		
SS-105600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W5	10	07-May-15	20-May-15			■ INSTALL TRA	CK, CLIPS & HANGERS - I	BUS LEVEL W5	
SS-105620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W5	10	21-May-15	05-Jun-15			■ SPRAY ON F	IREPROOFING - UNDERS	IDE OF ROOF DECK - W5	5
₩5 ROOF I	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	75	17-Dec-14	08-Apr-15						
SS-105680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W5	10	17-Dec-14	05-Jan-15			☐ DECKING/CLOSURE M	TL/NELSON STUDS - ROC	F DECK W5	
SS-105700	REBAR & MEP - ROOF LEVEL W5	15	12-Jan-15	02-Feb-15			■ REBAR & MEP - ROO	F LEVEL W5		
SS-105720	POUR SLAB ON METAL DECK - ROOF LEVEL W5	2	31-Mar-15	01-Apr-15			I POUR SLAB ON N	METAL DECK - ROOF LEV	EL W5	
SS-105740	LAYOUT & CONTROL - ROOF W5	5	02-Apr-15	08-Apr-15			LAYOUT & CONT	ROL - ROOF W5		
SUPERSTR	JCTURE AREA W4 (BUILDING LINES 7 - 9)	214	04-Aug-14	16-Jun-15						
₩4 ERECT	STRUCT STEEL	60	04-Aug-14	29-Oct-14						
SS-104020	REMOVE TRESTLE W4	5	04-Aug-14	08-Aug-14						
SS-104040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) W4	20	11-Aug-14	09-Sep-14			■ STEEL ERECTION, SPREAD/TA	CK DECK (BG/NODES/AG	STR.) W4	
SS-104060	PLUMB/LINE W4	20	10-Sep-14	07-Oct-14			PLUMB/LINE W4			
SS-318400	STRUCTURAL STEEL WELDING W4	35	10-Sep-14	29-Oct-14			STRUCTURAL STEEL WELD	ING W4		
₽ W4 GROUN	ID LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	133	30-Oct-14	14-May-15						
SS-104160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND W4	10	30-Oct-14	12-Nov-14			■ DECKING/CLOSURE MTL/N	ELSON STUDS - GROUN	D W4	
SS-001410	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W4	10	19-Nov-14	04-Dec-14			■ WALL WATERPROOFING	- LOWER CONCOURSE 2	ND LIFT - W4	
SS-001420	WALL REBAR - LOWER CONCOURSE 2ND LIFT - W4	15	15-Jan-15	05-Feb-15			■ WALL REBAR - LOW	R CONCOURSE 2ND LIF	T - W4	
SS-001430	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W4	15	23-Jan-15	12-Feb-15			■ WALL FORM AND PO	UR - LOWER CONCOUR	SE 2ND LIFT - W4	
SS-104140	EYEBROW FORMWORK - GROUND W4	10	13-Feb-15	27-Feb-15			■ EYEBROW FORMW	ORK - GROUND W4		
SS-104180	REBAR & MEP: EYEBROW & DECK - GROUND W4	15	13-Feb-15	06-Mar-15			■ REBAR & MEP: EY	EBROW & DECK - GROUN	D W4	
SS-104200	POUR EYEBROW & METAL DECK - GROUND W4	2	25-Mar-15	26-Mar-15			I POUR EYEBROW	& METAL DECK - GROUN	D W4	
SS-104220	LAYOUT & CONTROL - GROUND W4	5	27-Mar-15	02-Apr-15			LAYOUT & CONT	ROL - GROUND W4		
SS-104240	CURE & STRIP EYEBROW - GROUND W4	15	27-Mar-15	16-Apr-15			☐ CURE & STRIP I	YEBROW - GROUND W4		
SS-104260	INSTALL TRACK, CLIPS & HANGERS - GROUND W4	10	03-Apr-15	16-Apr-15			■ INSTALL TRACK	, CLIPS & HANGERS - GR	OUND W4	
SS-104280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W4	15	17-Apr-15	07-May-15			■ SPRAY ON FIR	EPROOFING - UNDERSIE	E OF LVL 2 - W4	
SS-104300	FORM AND PLACE CURBS W4	5	08-May-15	14-May-15			I FORM AND PL	ACE CURBS W4		
₩4 LEVEL	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	125	13-Nov-14	18-May-15						
SS-104360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W4	10	13-Nov-14	26-Nov-14			■ DECKING/CLOSURE MTL/	NELSON STUDS - LEVEL	2 W4	
SS-104380	REBAR & MEP - LEVEL 2 W4	15	15-Dec-14	08-Jan-15			REBAR & MEP - LEVEL	2 W4		
		1	1					1	1	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE	E
Activity ID	Activity Name	OD	Start	Finish			2014 2015	2016	2017	2018
					ASD	ND	JFMAMJJASPNDJFVAMJJASPNC			J H M A M J J
SS-104400	POUR SLAB ON METAL DECK - LEVEL 2 W4		27-Mar-15	30-Mar-15	_			METAL DECK - LEVEL 2 W	4	
SS-104420	LAYOUT & CONTROL - LEVEL 2 W4	5	31-Mar-15	06-Apr-15	_		LAYOUT & CON			
SS-104440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W4	_	07-Apr-15	20-Apr-15	_			K, CLIPS & HANGERS - LE		
SS-104460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W4	15	21-Apr-15	11-May-15	_			REPROOFING - UNDERSI		
SS-104470	FORM AND PLACE CURBS - LEVEL 2 W4	5	12-May-15	18-May-15			I FORM AND P	LACE CURBS - LEVEL 2 W	14	
W4 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	134	01-Dec-14	16-Jun-15						
SS-104520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W4	10	01-Dec-14	12-Dec-14			■ DECKING/CLOSURE MT	L/NELSON STUDS - BUS [ECK W4	
SS-104540	REBAR & MEP - BUS LEVEL W4	15	12-Jan-15	02-Feb-15			REBAR & MEP - BUS	LEVEL W4		
SS-104560	POUR SLAB ON METAL DECK - BUS LEVEL W4	2	31-Mar-15	01-Apr-15			I POUR SLAB ON	METAL DECK - BUS LEVE	L W4	
SS-304870	CURE 10" SLAB - BUS DECK W4	28	02-Apr-15	29-Apr-15			CURE 10" SLA	B - BUS DECK W4		
SS-304970	POUR 4" COMPOSITE SLAB - BUS DECK W4	2	30-Apr-15	01-May-15			I POUR 4" COM	POSITE SLAB - BUS DECK	W4	
SS-104580	LAYOUT & CONTROL - BUS LEVEL W4	5	04-May-15	08-May-15			I LAYOUT & CO	NTROL - BUS LEVEL W4		
SS-104600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W4	10	11-May-15	26-May-15			■ INSTALL TRA	ACK, CLIPS & HANGERS -	BUS LEVEL W4	
SS-104620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W4	15	27-May-15	16-Jun-15			■ SPRAY ON	FIREPROOFING - UNDER	SIDE OF ROOF DECK - W	4
₩4 ROOF I	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	77	17-Dec-14	10-Apr-15						
SS-104680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W4	10	17-Dec-14	05-Jan-15			☐ DECKING/CLOSURE N	TL/NELSON STUDS - ROC	F DECK W4	
SS-104700	REBAR & MEP - ROOF LEVEL W4	15	06-Jan-15	27-Jan-15			■ REBAR & MEP - ROC	F LEVEL W4		
SS-104720	POUR SLAB ON METAL DECK - ROOF LEVEL W4	2	02-Apr-15	03-Apr-15			I POUR SLAB ON	METAL DECK - ROOF LEV	EL W4	
SS-104740	LAYOUT & CONTROL - ROOF W4	5	06-Apr-15	10-Apr-15			I LAYOUT & CON	TROL - ROOF W4		
SUPERSTRI	JCTURE AREA W3 (BUILDING LINES 5 - 7)	198	10-Sep-14	29-Jun-15						
₩3 ERECT	STRUCT STEEL	60	10-Sep-14	05-Dec-14						
	REMOVE TRESTLE W3	5	10-Sep-14	16-Sep-14			■ REMOVE TRESTLE W3			
SS-103040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) - W3		17-Sep-14	15-Oct-14			STEEL ERECTION, SPREAD	 /TACK DECK (BG/NODES/	AG STR.) - W3	
SS-103060	PLUMB/LINE W3	20	16-Oct-14	12-Nov-14			PLUMB/LINE W3	`	,	
	STRUCTURAL STEEL WELDING W3	35	16-Oct-14	05-Dec-14			STRUCTURAL STEEL WI	LDING W3		
	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	154	12-Nov-14	29-Jun-15						
SS-001310	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W3	10	12-Nov-14	25-Nov-14	-		■ WALL WATERPROOFING	- LOWER CONCOURSE 2	ND LIFT - W3	
SS-103160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND W3	10	08-Dec-14	19-Dec-14	-		DECKING/CLOSURE MT			
SS-001320	WALL REBAR - LOWER CONCOURSE 2ND LIFT - W3	15	19-Dec-14	14-Jan-15	-		WALL REBAR - LOWE			
SS-001330	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W3	_	30-Dec-14		-		WALL FORM AND PO			
SS-103140	EYEBROW FORMWORK - GROUND W3		15-Apr-15					RMWORK - GROUND W3		
SS-103180	REBAR & MEP: EYEBROW & DECK - GROUND W3	-	15-Apr-15					: EYEBROW & DECK - GR	OUND W3	
	POUR EYEBROW & METAL DECK - GROUND W3	-	06-May-15	-	-			OW & METAL DECK - GRO		
SS-103220	LAYOUT & CONTROL - GROUND W3	-	08-May-15					NTROL - GROUND W3		
SS-103240	CURE & STRIP EYEBROW - GROUND W3		08-May-15	-				RIP EYEBROW - GROUND	W3	
SS-103260	INSTALL TRACK, CLIPS & HANGERS - GROUND W3		15-May-15					ACK, CLIPS & HANGERS -	_	
SS-103280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W3		02-Jun-15				_	FIREPROOFING - UNDER		
	FORM AND PLACE CURBS W3		23-Jun-15					PLACE CURBS W3		
	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP			13-May-15						
SS-103360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W3		22-Dec-14				■ DECKING/CLOSURE M	 TL/NELSON STUDS - LEV	EL 2 W3	
	REBAR & MEP - LEVEL 2 W3		26-Jan-15				REBAR & MEP - LEV			
SS-103400	POUR SLAB ON METAL DECK - LEVEL 2 W3		31-Mar-15		-			METAL DECK - LEVEL 2 W	 3	
	LAYOUT & CONTROL - LEVEL 2 W3		02-Apr-15	08-Apr-15	-			TROL - LEVEL 2 W3		
	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W3		02-Apr-15	22-Apr-15	-			K, CLIPS & HANGERS - LE	WEL 2 W3	
	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W3		23-Apr-15		-			REPROOFING - UNDERSI		
			09-Jan-15	,			STRATONTI	TEL ROOF ING - GINDEROIL	JE OF BOO BLOK - WYO	
W3 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	111	09-0all-10	10-3011-13						

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

Activity ID	DECK W3 W3 US LEVEL W3 DE OF ROOF DECK - W3 OF DECK W3
■ SS-103520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W3 ■ SS-103540 REBAR & MEP - BUS LEVEL W3 ■ SS-103560 POUR SLAB ON METAL DECK - BUS LEVEL W3 ■ SS-30570 CURE 10" SLAB - BUS DECK W3 ■ SS-305170 POUR \$ CONTROL - BUS LEVEL W3 ■ SS-103560 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 ■ SS-103600 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 ■ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 ■ SS-103600 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 ■ SS-103600 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103600 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103700 REBAR & MEP - ROOF LEVEL W3 ■ SS-103700 OF REBAR & MEP - ROOF LEVEL W3 ■ SS-103740 LAYOUT & CONTROL - ROOF W3 ■ SS-103740 LAYOUT & CONTROL - ROOF W3 ■ SS-103740 LAYOUT & CONTROL - ROOF W3	DECK W3 W3 US LEVEL W3 DE OF ROOF DECK - W3 OF DECK W3
■ SS-103540 REBAR & MEP - BUS LEVEL W3 ■ SS-103560 POUR SLAB ON METAL DECK - BUS LEVEL W3 ■ SS-305070 CURE 10° SLAB - BUS DECK W3 ■ SS-305070 CURE 10° SLAB - BUS DECK W3 ■ SS-305170 POUR 4" COMPOSITE SLAB - BUS DECK W3 ■ SS-305170 POUR 4" COMPOSITE SLAB - BUS DECK W3 ■ SS-103560 LAYOUT & CONTROL - BUS LEVEL W3 ■ SS-103560 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 ■ SS-103600 DECKING/CLOSURE MTLNELSON STUDS - ROOF DECK W3 ■ SS-103600 DECKING/CLOSURE MTLNELSON STUDS - ROOF DECK W3 ■ SS-103700 REBAR & MEP - ROOF LEVEL W3 ■ SS-103700 POUR SLAB ON METAL DECK - ROOF LEVEL W3 ■ REBAR & MEP - ROOF LEVEL W3 ■ LAYOUT & CONTROL - ROOF W3	V3 US LEVEL W3 DE OF ROOF DECK - W3 OF DECK W3
■ SS-103560 POUR SLAB ON METAL DECK - BUS LEVEL W3 2 02-Apr-15 03-Apr-15 ■ SS-305070 CURE 10" SLAB - BUS DECK W3 2 04-Apr-15 01-May-15 ■ SS-305170 POUR 4" COMPOSITE SLAB - BUS DECK W3 ■ SS-103580 LAYOUT & CONTROL - BUS LEVEL W3 ■ SS-103580 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 ■ SS-103680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 ■ SS-103700 REBAR & MEP - ROOF LEVEL W3 ■ SS-103740 LAYOUT & CONTROL - BUS LEVEL W3 ■ SS-103740 LAYOUT & CONTROL - BUS LEVEL W3 ■ SS-103740 LAYOUT & CONTROL - BUS LEVEL W3 ■ DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 ■ DECKING/CLOSURE MTL/NELSON STUDS - ROOF LEVEL W3 ■ SS-103740 LAYOUT & CONTROL - ROOF W3	US LEVEL W3 DE OF ROOF DECK - W3 DF DECK W3
■ SS-305070 CURE 10" SLAB - BUS DECK W3 ■ SS-305170 POUR 4" COMPOSITE SLAB - BUS DECK W3 ■ SS-305170 POUR 4" COMPOSITE SLAB - BUS DECK W3 ■ SS-103580 LAYOUT & CONTROL - BUS LEVEL W3 ■ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 ■ SS-103600 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 ■ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 ■ SS-103680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 ■ SS-103700 REBAR & MEP - ROOF LEVEL W3 ■ SS-103700 POUR SLAB ON METAL DECK - ROOF LEVEL W3 ■ SS-103701 LAYOUT & CONTROL - ROOF W3 ■ SS-103702 POUR SLAB ON METAL DECK - ROOF LEVEL W3 ■ SS-103703 LAYOUT & CONTROL - ROOF W3 ■ SS-103704 LAYOUT & CONTROL - ROOF W3 ■ SS-103705 LAYOUT & CONTROL - ROOF W3 ■ SS-103706 LAYOUT & CONTROL - ROOF W3	US LEVEL W3 DE OF ROOF DECK - W3 DF DECK W3
□ SS-305170 POUR 4" COMPOSITE SLAB - BUS DECK W3 □ SS-103580 LAYOUT & CONTROL - BUS LEVEL W3 □ SS-103580 LAYOUT & CONTROL - BUS LEVEL W3 □ SS-103580 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 □ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 □ SS-103680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 □ SS-103700 REBAR & MEP - ROOF LEVEL W3 □ SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 □ SS-103740 LAYOUT & CONTROL - ROOF W3 □ SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5)	US LEVEL W3 DE OF ROOF DECK - W3 DF DECK W3
SS-103580 LAYOUT & CONTROL - BUS LEVEL W3 SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 SS-103600 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP SS-103600 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 SS-103700 REBAR & MEP - ROOF LEVEL W3 SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 SS-103740 LAYOUT & CONTROL - ROOF W3 LAYOUT & CONTROL - BUS LEVEL W3 INSTALL TRACK, CLIPS & HANGERS - BUS INSTALL TRA	US LEVEL W3 DE OF ROOF DECK - W3 DF DECK W3
□ SS-103600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W3 □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 □ SS-103620 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 □ SS-103680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 □ SS-103700 REBAR & MEP - ROOF LEVEL W3 □ SS-103700 POUR SLAB ON METAL DECK - ROOF LEVEL W3 □ SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 □ SS-103740 LAYOUT & CONTROL - ROOF W3 □ SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5) □ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF SUBJECT	DE OF ROOF DECK - W3 DF DECK W3
■ SS-103620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W3 15 29-May-15 18-Jun-15 ■ M3 ROOF DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 56 26-Jan-15 14-Apr-15 ■ SS-103680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 10 26-Jan-15 06-Feb-15 ■ SS-103700 REBAR & MEP - ROOF LEVEL W3 15 09-Feb-15 02-Mar-15 ■ SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 2 06-Apr-15 07-Apr-15 ■ SS-103740 LAYOUT & CONTROL - ROOF W3 5 08-Apr-15 14-Apr-15 ■ SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5) 175 16-Oct-14 01-Jul-15	DE OF ROOF DECK - W3 DF DECK W3
W3 ROOF DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 56 26-Jan-15 14-Apr-15 SS-103680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W3 10 26-Jan-15 06-Feb-15 SS-103700 REBAR & MEP - ROOF LEVEL W3 15 09-Feb-15 02-Mar-15 SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 2 06-Apr-15 07-Apr-15 SS-103740 LAYOUT & CONTROL - ROOF W3 5 08-Apr-15 14-Apr-15 SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5) 175 16-Oct-14 01-Jul-15	
Image: SS-103680 brown	
SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 SS-103740 LAYOUT & CONTROL - ROOF W3 SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5) 1 POUR SLAB ON METAL DECK - ROOF LEVEL W3 1 POUR SLAB ON METAL DECK - ROOF LEVEL W3 1 LAYOUT & CONTROL - ROOF W3 1 LAYOUT & CONTROL - ROOF W3	. W3
SS-103720 POUR SLAB ON METAL DECK - ROOF LEVEL W3 SS-103740 LAYOUT & CONTROL - ROOF W3 SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5) 1 POUR SLAB ON METAL DECK - ROOF LEVEL W3 S 08-Apr-15 14-Apr-15 I LAYOUT & CONTROL - ROOF W3 I LAYOUT & CONTROL - ROOF W3	. W3
SS-103740 LAYOUT & CONTROL - ROOF W3 5 08-Apr-15 14-Apr-15 14-Apr-15 SUPERSTRUCTURE AREA W2 (BUILDING LINES 3 - 5) 175 16-Oct-14 01-Jul-15	
W2 ERECT STRUCT STEEL 60 16-Oct-14 15-Jan-15	
■ SS-102020 REMOVE TRESTLE W2 5 16-Oct-14 22-Oct-14	
SS-102040 STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) - W2	AG STR.) - W2
■ SS-102060 PLUMB/LINE W2 20 20-Nov-14 19-Dec-14 ■ PLUMB/LINE W2	,
SS-318440 STRUCTURAL STEEL WELDING W2 35 20-Nov-14 15-Jan-15 STRUCTURAL STEEL WELDING W2	
W2 GROUND LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	
SS-001210 WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W2	LIFT - W2
SS-001220 WALL REBAR - LOWER CONCOURSE 2ND LIFT - W2	
SS-001230 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W2	D LIFT - W2
SS-102160 DECKING/CLOSURE MTL/NELSON STUDS - GROUND W2	UND W2
SS-102140 EYEBROW FORMWORK - GROUND W2	
SS-102180 REBAR & MEP: EYEBROW & DECK - GROUND W2	JND W2
SS-102200 POUR EYEBROW & METAL DECK - GROUND W2 2 08-May-15 11-May-15 11-May-15	ND W2
SS-102220 LAYOUT & CONTROL - GROUND W2 5 12-May-15 18-May-15 18-May-15	
■ SS-102240 CURE & STRIP EYEBROW - GROUND W2 15 12-May-15 03-Jun-15 □ CURE & STRIP EYEBROW - GROUND W2	2
SS-102260 INSTALL TRACK, CLIPS & HANGERS - GROUND W2	ROUND W2
SS-102280 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W2	DE OF LVL 2 - W2
SS-102300 FORM AND PLACE CURBS W2 5 25-Jun-15 01-Jul-15	
W2 LEVEL 2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 74 02-Feb-15 15-May-15	
SS-102360 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W2	EL 2 W2
■ SS-102380 REBAR & MEP - LEVEL 2 W2 15 03-Mar-15 23-Mar-15 □ REBAR & MEP - LEVEL 2 W2	
SS-102400 POUR SLAB ON METEAL DECK - LEVEL 2 W2 2 02-Apr-15 03-Apr-15	<u>'</u>
■ SS-102420 LAYOUT & CONTROL - LEVEL 2 W2 5 06-Apr-15 10-Apr-15 10-Apr-15	
SS-102440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W2	
SS-102460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W2	OF BUS DECK - W2
W2 BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	
SS-102520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W2 10 17-Feb-15 02-Mar-15 DECKING/CLOSURE MTL/NELSON STUDS - BUS	S DECK W2
SS-102540 REBAR & MEP - BUS LEVEL W2 15 17-Mar-15 06-Apr-15	
SS-102560 POUR SLAB ON METAL DECK - BUS LEVEL W2 2 07-Apr-15 08-Apr-15 I POUR SLAB ON METAL DECK - BUS LEVEL W	N2
■ SS-305270 CURE 10" SLAB - BUS DECK W2 28 09-Apr-15 06-May-15 □ CURE 10" SLAB - BUS DECK W2	
SS-305370 POUR 4" COMPOSITE SLAB - BUS DECK W2 2 07-May-15 08-May-15 I POUR 4" COMPOSITE SLAB - BUS DECK W2	/2
SS-102580 LAYOUT & CONTROL - BUS LEVEL W2 5 11-May-15 15-May-15 15-May-15 15-May-15	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

SS 107000 SS 241 MACK CLIPS & HANGES HIGH EVEN 107 10 10 Mary 15 Dutum 15 15 D	Activity ID	Activity Name		Stort	Finish		2014 2015 2016 2017 2018
SS-10200 MSTAL TRACE, CUPS & HANCERS - BUSILEYEL W2 16 COLUMN 5 BURNATURE PROPORES, MURRESON DE NORM OF REPROZECTIVE W2 15 COLUMN 5 BURNATURE PROPORES, MURRESON DE NORM OF REPROZECTIVE W2 16 COLUMN 15	Activity ID	Activity Name	OD	Start	I IIIISII	AISIC	
SS 10000 SPAZ ON REPROCEDED CONTROL (UNDERSIDE OF RODE DECK W/D SPAZ ON REPROCEDED CONTROL (UNDERSIDE	SS-102600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W2	10	18-May-15	02-Jun-15	1/19	
W. ROOF DECK. DECK PHASE CONCAMEPICLIPSIGNEY 36 00-Main 5 124-07-5		·				_	
SS-10890 DECNINGCUOSURE MILNELSON STUDS - ROOP DECK W2 15 174-Min 50 BAN-15 1	₽ W2 ROOF	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	34	03-Mar-15	17-Apr-15		
S-16270 REBAR AMP - ROOF LEVEL W2 2 0A-pl-15 S-16270 LAYOUT & CONTROL - ROOF LEVEL W2 2 0A-pl-15 S-16270 LAYOUT & CONTROL - ROOF LEVEL W2 2 0A-pl-15 S-16270 LAYOUT & CONTROL - ROOF W2 5 15-46715 T-74-pl-15 LAYOUT & CONTROL - ROOF W2 5 15-46715 T-74-pl-15 LAYOUT & CONTROL - ROOF W2 5 15-46715 T-74-pl-15 LAYOUT & CONTROL - ROOF W2 T-74-pl-15 LAYOUT & CONTROL - ROO			10	03-Mar-15	16-Mar-15		■ DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W2
SS-102720 COUNTS LARO OMERIAL DECK - ROOF LEVEL V2 5 9-April 19 10-April 19 1 10-April 19 10-April 19 1 10-April 19 1 10-April 19 1 10-April 19 1						_	
Septiment Sep			2		<u>-</u>	_	
SUPPRINCE OF TREAT AREA WILL (BUILDING LINES 1-3)			5		· ·	_	■ LAYOUT & CONTROL - ROOF W2
SE-10100 SEMPLY FESTILE W S 2-20-100 SEMPLY FESTILE W S 2-20-100 SEMPLY FESTILE W SE-10100 SEMPLY FESTILE W SEMPLY FESTILE W SE-10100 SEMPLY FESTILE W SE-10100 SEMPLY FESTILE W SEMP	□ SUPERSTE	RUCTURE AREA W1 (BUILDING LINES 1 - 3)			<u> </u>		
## SS-010000 PLUMBLINE WI SS-010000 PLUM		· · · · · · · · · · · · · · · · · · ·	60	20-Nov-14	23-Feb-15		
STELL ERECTION, SPREADTACK DECK (BGNODES/AG STR.) WI SS104960 PLUMBULE WI SS104960 STRUCTURAL STEEL WELDING WI SS104960 STRUCTURAL STEEL WELDING WI SS2049460 STRUCTURAL STEEL WELDING WI SS2049460 STRUCTURAL STEEL WELDING WI SS2049460 STRUCTURAL STEEL WELDING WI SS204946 STRUCTURAL STEEL WELDING WI SS20494 STRUCTURAL STEEL WELDING							I REMOVE TRESTLE W1
SS-101060 PLUMBILINE WI SS-310400 STRUCTURIA. STEEL WELDING WI 35 31-0e-14 35-49-15 ■ PLIMBILINE WI SS-310400 STRUCTURIA. STEEL WELDING WI 35 31-0e-14 35-49-15 ■ PLIMBILINE WI SS-310400 PLOVER CONCOURSE 2ND LIFT - WI 10 29-0e-14 11-Nov-14 ■ WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ Nov-14 ■ WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310130 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURSE 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND LIFT - WI 15 03-Nov-14 ■ SS-310140 PLOVER CONCOURS 2ND				-		_	
\$5.354840 \$7 LOVER CONCOMEPICLIPS/SOFP \$10 \$25-06-14 \$15-06-14 \$25-06-14 \$15-06-14 \$25-06-14 \$15		,				_	
WAL GROUND LEVEL - DECK PHASE - CONCMEPICLIPS/SOFP 156 29-00:14 13-Aug-15 35-00:110 WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W1 15 05-40:-14 11-ho:-14 WALL REBAR - LOWER CONCOURSE 2ND LIFT - W1 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W1 15 05-40:-14 10-ho:-14 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W1 WALL FORM AND POUR - LOWER CONCOURS 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIFT - W1 WALL FORM AND POUR - LOWER 2ND LIF						_	
SS-001110 WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W1 SS-001120 WALL REBAR - LOWER CONCOURSE 2ND LIFT - W1 SS-001130 WALL FEBAR - LOWER CONCOURSE 2ND LIFT - W1 SS-001130 WALL FEBAR - LOWER CONCOURSE 2ND LIFT - W1 SS-101140 DECKING/CLOSURE MITUNELSON STUDS - GROUND W1 SS-101140 EYEBROW FORMWORK - GROUND W1 SS-101150 REBAR & MEP. EYEBROW & SECK - GROUND W1 SS-101200 POUR EYEBROW & METAL DECK - GROUND W1 SS-101200 POUR EYEBROW & SECK - GROUND W1 SS-101200 NSTALL TRACK - LIPS & HANGERS - GROUND W1 SS-101200 NSTALL TRACK - LIPS & HANGERS - GROUND W1 SS-101200 FORM AND PLACE CURBS W1 SS-101200 FORM AND PLACE CURBS W1 SS-101300 REBAR & MEP. EYEBROW - GROUND W1 SS-101200 REXIDENCE MITUNELSON STUDS - LEVEL 2 W1 SS-101200 REXIDENCE MITUNELSON STUDS - LEVEL 2 W1 SS-101200 LAYOUT & CONTROL - LEVEL 2 W1 SS-101200 LAYOUT & CONTROL - LEVEL 2 W1 SS-101200 LAYOUT & CONTROL - LEVEL 2 W1 SS-101200 REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 READ REBAR & MEP. EYEBROW - GROUND W1 SS-101200 REBAR & MEP. EYEBROW - GROUND W1 SS							
SS-001130 WALL REBAR - LOWER CONCOURSE 2ND LIFT - WI SS-001130 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - WI SS-001160 DECKING/CLOSURE MTLNELSON STUDS - GROUND WI SS-101160 DECKING/CLOSURE MTLNELSON STUDS - GROUND WI SS-101160 DECKING/CLOSURE MTLNELSON STUDS - GROUND WI SS-101170 EVEROW FORMWORK - GROUND WI SS-101180 REBAR & MEP - EVEREOW & FORMWORK - GROUND WI SS-101180 POUR EXPERION & DECK - GROUND WI SS-101180 CURE AS TRIP EYEBROW A DECK - GROUND WI SS-101280 POUR EYEBROW & METAL DECK - GROUND WI SS-101280 LAYOUT & CONTROL - GROUND WI SS-101280 SRAY ON FIRERPROFORM S WETAL DECK - GROUND WI SS-101280 SRAY ON FIRERPROFORM S WE SUBJECT - WI SS-101280 SRAY ON FIRERPROFORM S WE SUBJECT - WI SS-101280 FORM AND PLACE CURBS WI SS-101380 REBAR & MEP - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - CROCKMEP/CLIPS/SOFP SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS-101400 POUR SLAD ON METAL DECK - LEVEL 2 WI SS			ļ	ļ			WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - W1
■ \$8-01130 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - W1 ■ \$8-101160 DECKINGCLOSURE MTLNELSON STUDS - GROUND W1 ■ \$8-101140 EVERBOW FORMORK - GROUND W1 ■ \$8-101140 EVERBOW FORMORK - GROUND W1 ■ \$8-101140 PERBOW FORMORK - GROUND W1 ■ \$8-101140 REBAR & MEP - EYEBROW & DECK - GROUND W1 ■ \$8-101200 POUR EYEBROW & METAL DECK - GROUND W1 ■ \$8-101200 POUR EYEBROW & METAL DECK - GROUND W1 ■ \$8-101200 POUR EYEBROW & GROUND W1 ■ \$8-101200 LAYOUT & CONTROL - GROUND W1 ■ \$8-101200 LA			15			_	
■ SS-101160 DECKING/CLOSURE MTLNELSON STUDS - GROUND W1 ■ SS-101140 EYEBROW FORMWORK - GROUND W1 ■ SS-101190 REBRA & MEP - EYEBROW A DECK - GROUND W1 ■ SS-10120 DAYOUT & CONTROL - GROUND W1 ■ SS-10120 LAYOUT & CONTROL - GROUND W1 ■ SS-101220 LAYOUT & CONTROL - GROUND W1 ■ SS-101220 LAYOUT & CONTROL - GROUND W1 ■ SS-101220 DAYOUT & CONTROL - GROUND W1 ■ SS-101220 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP ■ SS-101320 DECKING/CLOSURE MTLINELSON STUDS - LEVEL 2 W1 ■ SS-101320 DECKING/CLOSURE MTLINELSON STUDS - LEVEL 2 W1 ■ SS-101320 DECKING/CLOSURE MTLINELSON STUDS - LEVEL 2 W1 ■ SS-101420 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101420 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101420 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101420 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101420 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101420 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101440 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101440 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101440 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101440 DAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK W1 ■ SS-101450 SP			15			_	
SS-101140 EYEBROW FORMWORK - GROUND WI SS-101120 POUR EYEBROW & DECK - GROUND WI SS-101200 POUR EYEBROW & METAL DECK - GROUND WI SS-101220 LAYOUT & CONTROL - GROUND WI SS-101220 SS-101240 DISTALL TRACK, CLIPS & HANGERS - GROUND WI SS-101220 SS-101240 POUR SS-101240	SS-101160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND W1	10	24-Feb-15	09-Mar-15	_	■ DECKING/CLOSURE MTL/NELSON STUDS - GROUND W1
SS-101200 POUR EYEBROW & METAL DECK - GROUND W1 SS-101220 LAYOUT & CONTROL - GROUND W1 SS-101220 CURE & STRIP EYEBROW - GROUND W1 SS-101240 CURE & STRIP EYEBROW - GROUND W1 SS-101260 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101300 FORM AND PLACE CURBS W1 SS-101300 FORM AND PLACE CURBS W1 SS-101380 DECKING/CLOSURE MTL/MELSON STUDS - LEVEL 2 W1 SS-101380 REBAR & MEP - LEVEL 2 W1 SS-101380 REBAR & MEP - LEVEL 2 W1 SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 SS-101400 NSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101400 NSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101440 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101450 DECKING/CLOSURE MTL/MELSON STUDS - LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101450 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK - W1 SS-101450 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK - W1 SS-101450 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 SS-101540 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 SS-101540 REBAR & MEP - BUS LEVEL W1 SS-101540 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 REBAR & MEP - BUS LEVEL W1 SS-101540 REBAR & MEP - BUS L		EYEBROW FORMWORK - GROUND W1		-	15-Jun-15		
■ SS-101220 LAYOUT & CONTROL - GROUND W1 ■ SS-101220 CURE & STRIP EYEBROW - GROUND W1 ■ SS-101220 CURE & STRIP EYEBROW - GROUND W1 ■ SS-101260 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101260 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 · W1 ■ SS-101300 FORM AND PLACE CURBS W1 ■ SS-101300 FORM AND PLACE CURBS W1 ■ SS-101300 PCCKING/CLOSURE MTL/MELSON STUDS - LEVEL 2 W1 ■ SS-101300 DECKING/CLOSURE MTL/MELSON STUDS - LEVEL 2 W1 ■ SS-101300 PCCKING/CLOSURE MTL/MELSON STUDS - LEVEL 2 W1 ■ SS-101300 PCC MINOR - LEVEL 2 W1 ■ SS-101400 NBTALL DECK - LEVEL 2 W1 ■ SS-101400 PCUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101400 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101500 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 ■ SS-101500 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 ■ SS-101500 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 ■ SS-101500 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 ■ SS-101500 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1 ■ SS-101500 DECKING/CLOSURE MTL/MELSON STUDS - BUS DECK W1	SS-101180	REBAR & MEP: EYEBROW & DECK - GROUND W1	15	02-Jun-15	22-Jun-15		■ REBAR & MEP: EYEBROW & DECK - GROUND W1
■ SS-101240 CURE & STRIP EYEBROW - GROUND W1 ■ SS-101260 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LV. 2 - W1 ■ SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LV. 2 - W1 ■ SS-101380 FORM AND PLACE CURES W1 ■ SS-101390 FORM AND PLACE CURES W1 ■ SS-101390 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1 ■ SS-101390 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1 ■ SS-101380 REBAR & MEP - LEVEL 2 W1 ■ SS-101400 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101420 LAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101420 LAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101550 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1	SS-101200	POUR EYEBROW & METAL DECK - GROUND W1	2	-			
■ SS-101260 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 ■ SS-101300 FORM AND PLACE CURBS W1 ■ SS-101300 DECKING/CLOSURE MTLNELSON STUDS - LEVEL 2 W1 ■ SS-101380 REBAR & MEP - LEVEL 2 W1 ■ SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101450 DECKING/CLOSURE MTLNELSON STUDS - LEVEL 2 W1 ■ SS-101460 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101470 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101480 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101490 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101440 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - GROUND W1 ■ SS-101440 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101450 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101520 DECKING/CLOSURE MTLNELSON STUDS - BUS DECK W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1	SS-101220	LAYOUT & CONTROL - GROUND W1	5	25-Jun-15	01-Jul-15		■ LAYOUT & CONTROL - GROUND W1
SS-101280 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101300 FORM AND PLACE CURBS W1 SS-101300 FORM AND PLACE CURBS W1 SS-101300 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1 SS-101360 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1 SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 SS-101400 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF LEVEL 2 W1 SS-1	SS-101240	CURE & STRIP EYEBROW - GROUND W1	15	25-Jun-15	16-Jul-15		☐ CURE & STRIP EYEBROW - GROUND W1
■ SS-101300 FORM AND PLACE CURBS W1 SS-101300 FORM AND PLACE CURBS W1 SS-101360 DECK PHASE - CONC/MEP/CLIPS/SOFP 67 10-Mar-15 12-Jun-15 12-Jun-15 13-Aug-15 13	SS-101260	INSTALL TRACK, CLIPS & HANGERS - GROUND W1	10	02-Jul-15	16-Jul-15		■ INSTALL TRACK, CLIPS & HANGERS - GROUND W1
Note	SS-101280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1	15	17-Jul-15	06-Aug-15		SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - W1
SS-101360 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1 SS-101380 REBAR & MEP - LEVEL 2 W1 SS-101380 POUR SLAB ON METAL DECK - LEVEL 2 W1 SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 SS-101400 LAYOUT & CONTROL - LEVEL 2 W1 SS-101400 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1 SS-101460 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK - W1 SS-101460 REBAR & MEP - LEVEL 2 W1 I POUR SLAB ON METAL DECK - LEVEL 2 W1 LAYOUT & CONTROL - LEVEL 2 W1 I LAYOUT & CONTROL - LEVEL 2 W1 I NSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 WI BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 BEBAR & MEP - BUS LEVEL W1 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 REBAR & MEP - BUS LEVEL W1	SS-101300	FORM AND PLACE CURBS W1	5	07-Aug-15	13-Aug-15		■ FORM AND PLACE CURBS W1
SS-101380 REBAR & MEP - LEVEL 2 W1 SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 SS-101420 LAYOUT & CONTROL - LEVEL 2 W1 SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101440 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 WI BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1	₩1 LEVEI	. 2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	67	10-Mar-15	12-Jun-15		
■ SS-101400 POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ SS-101420 LAYOUT & CONTROL - LEVEL 2 W1 ■ SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SS-101440 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 ■ REBAR & MEP - BUS LEVEL W1 ■ I POUR SLAB ON METAL DECK - LEVEL 2 W1 ■ LAYOUT & CONTROL - LEVEL 2 W1 ■ INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 ■ SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 ■ DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 ■ REBAR & MEP - BUS LEVEL W1	SS-101360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1	10	10-Mar-15	23-Mar-15	_	■ DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 W1
SS-101420 LAYOUT & CONTROL - LEVEL 2 W1 SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 W1 BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 87 24-Mar-15 27-Jul-15 SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 15 30-Apr-15 06-May-15 20-May-15 12-Jun-15 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 24-Mar-15 06-Apr-15 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 SS-101540 REBAR & MEP - BUS LEVEL W1 SS-101540 REBAR & MEP - BUS LEVEL W1	SS-101380	REBAR & MEP - LEVEL 2 W1	15	07-Apr-15	27-Apr-15		REBAR & MEP - LEVEL 2 W1
SS-101440 INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1 SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 W1 BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 87 24-Mar-15 27-Jul-15 SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 10 07-May-15 20-May-15 12-Jun-15 15 21-May-15 12-Jun-15 16 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 17 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 18 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 19 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 10 REBAR & MEP - BUS LEVEL W1	SS-101400	POUR SLAB ON METAL DECK - LEVEL 2 W1	2	28-Apr-15	29-Apr-15		I POUR SLAB ON METAL DECK - LEVEL 2 W1
SS-101460 SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1 W1 BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 87 24-Mar-15 27-Jul-15 SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 SS-101540 REBAR & MEP - BUS LEVEL W1 15 21-May-15 12-Jun-15 16 OF-Apr-15 11-May-15 17 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 18 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 19 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 10 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 10 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 11 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1	SS-101420	LAYOUT & CONTROL - LEVEL 2 W1	5	30-Apr-15	06-May-15		LAYOUT & CONTROL - LEVEL 2 W1
W1 BUS DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 87 24-Mar-15 27-Jul-15 □ SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 10 24-Mar-15 06-Apr-15 □ SS-101540 REBAR & MEP - BUS LEVEL W1 15 21-Apr-15 11-May-15	SS-101440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1	10	07-May-15	20-May-15		■ INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 W1
■ SS-101520 DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1 10 24-Mar-15 06-Apr-15 ■ SS-101540 REBAR & MEP - BUS LEVEL W1 15 21-Apr-15 11-May-15	SS-101460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1	15	21-May-15	12-Jun-15		SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - W1
■ SS-101540 REBAR & MEP - BUS LEVEL W1 15 21-Apr-15 11-May-15	₽ W1 BUS D	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	87	24-Mar-15	27-Jul-15		
	SS-101520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1	10	24-Mar-15	06-Apr-15		■ DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK W1
SS-101560 POUR SLAR ON METAL DECK - BUS LEVEL W1	SS-101540	REBAR & MEP - BUS LEVEL W1	15	21-Apr-15	11-May-15		■ REBAR & MEP - BUS LEVEL W1
2 12-Way-13 13-Way-13 15-Way-13 15	SS-101560	POUR SLAB ON METAL DECK - BUS LEVEL W1	2	12-May-15	13-May-15		I POUR SLAB ON METAL DECK - BUS LEVEL W1
■ SS-305470 CURE 10" SLAB - BUS DECK W1 28 14-May-15 10-Jun-15 ■ CURE 10" SLAB - BUS DECK W1	SS-305470	CURE 10" SLAB - BUS DECK W1	28	14-May-15	10-Jun-15		☐ CURE 10" SLAB - BUS DECK W1
■ SS-305570 POUR 4" COMPOSITE SLAB - BUS DECK W1 2 11-Jun-15 12-Jun-15 1 POUR 4" COMPOSITE SLAB - BUS DECK W1	SS-305570	POUR 4" COMPOSITE SLAB - BUS DECK W1	2	11-Jun-15	12-Jun-15		I POUR 4" COMPOSITE SLAB - BUS DECK W1
■ SS-101580 LAYOUT & CONTROL - BUS LEVEL W1 5 15-Jun-15 19-Jun-15 19-Jun-15	SS-101580	LAYOUT & CONTROL - BUS LEVEL W1	5	15-Jun-15	19-Jun-15		
SS-101600 INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W1 10 22-Jun-15 06-Jul-15	SS-101600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL W1	10	22-Jun-15	06-Jul-15		■ INSTALL TRACK, CLIPS & HANGER\$ - BUS LEVEL W1
SS-101620 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W1 15 07-Jul-15 27-Jul-15 SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W1	SS-101620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W1	15	07-Jul-15	27-Jul-15		SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - W1
W1 ROOF DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 543 07-Apr-15 12-Jun-17	₩1 ROOF	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	543	07-Apr-15	12-Jun-17		
SS-101680 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W1 10 07-Apr-15 20-Apr-15 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W1	SS-101680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W1	10	07-Apr-15	20-Apr-15		■ DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK W1
Image: SS-101700 REBAR & MEP - ROOF LEVEL W1 15 21-Apr-15 11-May-15 Inapper 15	SS-101700	REBAR & MEP - ROOF LEVEL W1	15	21-Apr-15	11-May-15		■ REBAR & MEP - ROOF LEVEL W1
SS-101720 POUR SLAB ON METAL DECK - ROOF LEVEL W1 2 14-May-15 15-May-15 I POUR SLAB ON METAL DECK - ROOF LEVEL W1	SS-101720	POUR SLAB ON METAL DECK - ROOF LEVEL W1	2	14-May-15	15-May-15	1	I POUR SLAB ON METAL DECK - ROOF LEVEL W1

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

	Tarana na	1	1	1=	_				JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	AISIO	ND	2014 2015 JFMAMJJASPNDJFMAMJJASPND	2016 JFMAMJJASONE	2017 2018
SS-101740	LAYOUT & CONTROL - ROOF W1	5	18-May-15	26-May-15				NTROL - ROOF W1	
RC-100601	DEMO CRANE PEDESTALS - WEST		30-May-17	12-Jun-17					■ DEMO CRANE PEDESTALS
SUPERSTRU	CTURE CENTRAL ZONE (C) (BUILDING LINES 10 - 20)		15-Jul-14	18-Aug-17					
	UCTURE AREA C1 (BUILDING LINES 10 - 11)	183	15-Jul-14	10-Apr-15					
	STRUCT STEEL	34	15-Jul-14	02-Sep-14					
SS-201020	REMOVE TRESTLE C1	4	15-Jul-14	18-Jul-14			I REMOVE TRESTLE C1		
SS-201040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C1		21-Jul-14	01-Aug-14			STEEL ERECTION, SPREAD/TACK	DECK (BG/NODES/AG S	TR.) C1
SS-201060	PLUMB/LINE C1		04-Aug-14	15-Aug-14			PLUMB/LINE C1		,
	STRUCTURAL STEEL WELDING C1		04-Aug-14	02-Sep-14	_		STRUCTURAL STEEL WELDING	C1	
	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		03-Sep-14	10-Mar-15					
SS-201160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND C1	10	03-Sep-14	16-Sep-14			■ DECKING/CLOSURE MTL/NELS	ON STUDS - GROUND C	
SS-002110	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C1	5	26-Nov-14	04-Dec-14	_		■ WALL WATERPROOFING		
SS-002120	WALL REBAR - LOWER CONCOURSE 2ND LIFT - C1	10	05-Dec-14	18-Dec-14			■ WALL REBAR - LOWER ©		
SS-002130	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C1	10	12-Dec-14	29-Dec-14	_		■ WALL FORM AND POUR		
SS-201140	EYEBROW FORMWORK - GROUND C1	10	30-Dec-14	14-Jan-15			■ EYEBROW FORMWOR		
SS-201180	REBAR & MEP: EYEBROW & DECK - GROUND C1	15	30-Dec-14	22-Jan-15	_		■ REBAR & MEP: EYEBR		
SS-201200	POUR EYEBROW & METAL DECK - GROUND C1	2	23-Jan-15	26-Jan-15			POUR EYEBROW & MI		
SS-201220	LAYOUT & CONTROL - GROUND C1	5	27-Jan-15	02-Feb-15			■ LAYOUT & CONTROL	- GROUND C1	
SS-201240	CURE & STRIP EYEBROW - GROUND C1	10	27-Jan-15	09-Feb-15			■ CURE & STRIP EYEB	ROW - GROUND C1	
SS-201260	INSTALL TRACK, CLIPS & HANGERS - GROUND C1	10	03-Feb-15	17-Feb-15			■ INSTALL TRACK, CLI	PS & HANGERS - GROU	ND C1
SS-201280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - C1	10	18-Feb-15	03-Mar-15			■ SPRAY ON FIREPRO	OOFING - UNDERSIDE O	F LVL 2 - C1
SS-201300	FORM AND PLACE CURBS C1	5	04-Mar-15	10-Mar-15			■ FORM AND PLACE	CURBS C1	
C1 LEVEL	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	106	26-Sep-14	05-Mar-15					
SS-201360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 C1	10	26-Sep-14	09-Oct-14			■ DECKING/CLOSURE MTL/NEL	SON STUDS - LEVEL 2 C	1
SS-201380	REBAR & MEP - LEVEL 2 C1	15	16-Dec-14	09-Jan-15			REBAR & MEP - LEVEL	2 C1	
SS-201400	POUR SLAB ON METAL DECK - LEVEL 2 C1	2	27-Jan-15	28-Jan-15			I POUR SLAB ON META	L DECK - LEVEL 2 C1	
SS-201420	LAYOUT & CONTROL - LEVEL 2 C1	5	29-Jan-15	04-Feb-15			■ LAYOUT & CONTROL	- LEVEL 2 C1	
SS-201440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 C1	10	05-Feb-15	19-Feb-15			■ INSTALL TRACK, CL	PS & HANGERS - LEVEL	2 C1
SS-201460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - C1	10	20-Feb-15	05-Mar-15			■ SPRAY ON FIREPR	OOFING - UNDERSIDE O	F BUS DECK - C1
C1 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	122	10-Oct-14	10-Apr-15					
SS-201520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C1	10	10-Oct-14	24-Oct-14			■ DECKING/CLOSURE MTL/NE	LSON STUDS - BUS DEC	K C1
SS-201540	REBAR & MEP - BUS LEVEL C1	15	12-Jan-15	02-Feb-15			■ REBAR & MEP - BUS	LEVEL C1	
SS-201560	POUR SLAB ON METAL DECK - BUS LEVEL C1	2	03-Feb-15	04-Feb-15			I POUR SLAB ON MET	AL DECK - BUS LEVEL C	
SS-305670	CURE 10" SLAB - BUS DECK C1	28	05-Feb-15	04-Mar-15			CURE 10" SLAB - BL	JS DECK C1	
SS-305770	POUR 4" COMPOSITE SLAB - BUS DECK C1	2	05-Mar-15	06-Mar-15			I POUR 4" COMPOSI	TE SLAB - BUS DECK C1	
SS-201580	LAYOUT & CONTROL - BUS LEVEL C1	5	09-Mar-15	13-Mar-15			I LAYOUT & CONTRO	DL - BUS LEVEL C1	
SS-201600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL C1	10	16-Mar-15	27-Mar-15		L	■ INSTALL TRACK, C	CLIPS & HANGERS - BUS	LEVEL C1
SS-201620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - C1	10	30-Mar-15	10-Apr-15			■ SPRAY ON FIRE	ROOFING - UNDERSIDE	OF ROOF DECK - C1
C1 ROOF D	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	38	17-Dec-14	13-Feb-15					
SS-201680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK C1	10	17-Dec-14	05-Jan-15			■ DECKING/CLOSURE MT	L/NELSON STUDS - ROC	F DECK C1
SS-201700	REBAR & MEP - ROOF LEVEL C1	15	12-Jan-15	02-Feb-15			■ REBAR & MEP - ROOF	LEVEL C1	
SS-201720	POUR SLAB ON METAL DECK - ROOF LEVEL C1	2	05-Feb-15	06-Feb-15		L	I POUR SLAB ON MET	AL DECK - ROOF LEVEL	¢1
SS-201740	LAYOUT & CONTROL - ROOF C1	5	09-Feb-15	13-Feb-15			■ LAYOUT & CONTROL	ROOF C1	
SUPERSTR	JCTURE AREA C2 (BUILDING LINES 11 - 13)	187	04-Aug-14	06-May-15					
☐ C2 ERECT	STRUCT STEEL	60	04-Aug-14	29-Oct-14					
SS-202020	REMOVE TRESTLE C2	5	04-Aug-14	08-Aug-14			■ REMOVE TRESTLE C2		
			-			•			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

							JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	AISID	ND	2014 2015 2016 2017 2018 JFMAMJJASPNDJFMAMJJASPNDJFMAMJJJASPNDJFMAMJJJ
SS-202040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C2	20	11-Aug-14	09-Sep-14			STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C2
SS-202060	PLUMB/LINE C2	20	10-Sep-14	07-Oct-14			PLUMB/LINE C2
SS-318500		35	10-Sep-14	29-Oct-14	_		STRUCTURAL STEEL WELDING C2
C2 CBOUL	ID LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		30-Oct-14	07-Apr-15			STROUTONAL STEEL WELDING OZ
- C2 GROOM		_					P DECKING/CLOCUDE MTI /NELCON CTUDE CROUND CO
SS-202160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND C2	10	30-Oct-14	12-Nov-14	_		DECKING/CLOSURE MTL/NELSON STUDS - GROUND C2
SS-002210	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C2 WALL REBAR - LOWER CONCOURSE 2ND LIFT - C2	10	26-Nov-14	11-Dec-14	_		WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C2
SS-002220		15	19-Dec-14	14-Jan-15	_		WALL REBAR - LOWER CONCOURSE 2ND LIFT - C2
SS-002230	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C2	15	30-Dec-14	22-Jan-15	_		WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C2
SS-202140	EYEBROW FORMWORK - GROUND C2	10	23-Jan-15	05-Feb-15	_		EYEBROW FORMWORK - GROUND C2
SS-202180	REBAR & MEP: EYEBROW & DECK - GROUND C2	15	23-Jan-15	12-Feb-15	_		REBAR & MEP: EYEBROW & DECK - GROUND C2
SS-202200	POUR EYEBROW & METAL DECK - GROUND C2	2	13-Feb-15	17-Feb-15			POUR EYEBROW & METAL DECK - GROUND C2
SS-202220	LAYOUT & CONTROL - GROUND C2	5	18-Feb-15	24-Feb-15	_		LAYOUT & CONTROL - GROUND C2
SS-202240	CURE & STRIP EYEBROW - GROUND C2	15	18-Feb-15	10-Mar-15	_		CURE & STRIP EYEBROW - GROUND C2
SS-202260	INSTALL TRACK, CLIPS & HANGERS - GROUND C2	10	25-Feb-15	10-Mar-15	_		INSTALL TRACK, CLIPS & HANGERS - GROUND C2
SS-202280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - C2	15	11-Mar-15	31-Mar-15	_		SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - C2
SS-202300	FORM AND PLACE CURBS C2	5	01-Apr-15	07-Apr-15			
C2 LEVEL	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	93	13-Nov-14	02-Apr-15			
SS-202360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 C2	10	13-Nov-14	26-Nov-14			■ DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 C2
■ SS-202380	REBAR & MEP - LEVEL 2 C2	15	15-Dec-14	08-Jan-15			REBAR & MEP - LEVEL 2 C2
SS-202400	POUR SLAB ON METEAL DECK - LEVEL 2 C2	2	18-Feb-15	19-Feb-15			I POUR SLAB ON METEAL DECK - LEVEL 2 C2
SS-202420	LAYOUT & CONTROL - LEVEL 2 C2	5	20-Feb-15	26-Feb-15			LAYOUT & CONTROL - LEVEL 2 C2
SS-202040 SS-202060 SS-318500 GC GROUN SS-002210 SS-002220 SS-002220 SS-002230 SS-202140 SS-202180 SS-202220 SS-202220 SS-202220 SS-202220 SS-202220 SS-202240 SS-202280 SS-202280 SS-202280 SS-202280 SS-202280 SS-202380 SS-202380 SS-202400 SS-202400 SS-202400 SS-202520 SS-202400 SS-202400 SS-202520 SS-202520 SS-202520 SS-202520 SS-202520 SS-305870 SS-305870	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 C2	10	27-Feb-15	12-Mar-15			■ INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 C2
SS-202460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - C2	15	13-Mar-15	02-Apr-15			SPRAY ON FIRE PROOFING - UNDERSIDE OF BUS DECK - C2
C2 BUS DE	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	107	01-Dec-14	06-May-15			
SS-202520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C2	10	01-Dec-14	12-Dec-14	_		DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C2
■ SS-202540	REBAR & MEP - BUS LEVEL C2	15	12-Jan-15	02-Feb-15			■ REBAR & MEP - BUS LEVEL C2
■ SS-202560	POUR SLAB ON METAL DECK - BUS LEVEL C2	2	20-Feb-15	23-Feb-15			■ POUR SLAB ON METAL DECK - BUS LEVEL C2
SS-305870	CURE 10" SLAB - BUS DECK C2	28	24-Feb-15	23-Mar-15			☐ CURE 10" SLAB - BUS DECK C2
SS-305970	POUR 4" COMPOSITE SLAB - BUS DECK C2	2	24-Mar-15	25-Mar-15			I POUR 4" COMPOSITE SLAB - BUS DECK C2
SS-202580	LAYOUT & CONTROL - BUS LEVEL C2	5	26-Mar-15	01-Apr-15			■ LAYOUT & CONTROL - BUS LEVEL C2
	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL C2	10	02-Apr-15	15-Apr-15			■ INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL C2
SS-202620			-	06-May-15			■ SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK C2
	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP		· ·	04-Mar-15			
SS-202680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK C2	10	17-Dec-14	05-Jan-15			DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK C2
SS-202700	REBAR & MEP - ROOF LEVEL C2	15	06-Jan-15	27-Jan-15	_		REBAR & MEP - ROOF LEVEL C2
SS-202700		2	24-Feb-15	25-Feb-15	-		I POUR SLAB ON METAL DECK - ROOF LEVEL C2
SS-202740	LAYOUT & CONTROL - ROOF C2	5	26-Feb-15	04-Mar-15			LAYOUT & CONTROL - ROOF C2
SUDEDSTD		177		29-May-15			LATOUT & CONTROL - ROOT CZ
3UPERSTR	UCTURE AREA C3 (BUILDING LINES 13 - 15)						
C3 ERECT	STRUCT STEEL	60		05-Dec-14			- DEMONS TOPOTH F OR
SS-203020	REMOVE TRESTLE C3	5	10-Sep-14	16-Sep-14	_		REMOVE TRESTLE C3
SS-203040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C3	20	17-Sep-14	15-Oct-14			STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C3
SS-203060	PLUMB/LINE C3	20	16-Oct-14	12-Nov-14	_		PLUMB/LINE C3
SS-318520		35	16-Oct-14	05-Dec-14			STRUCTURAL STEEL WELDING C3
G3 GROUN	ID LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	97	05-Dec-14	28-Apr-15			
SS-002310	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C3	10	05-Dec-14	18-Dec-14			WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C3
SS-203160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND C3	10	08-Dec-14	19-Dec-14	1		■ DECKING/CLOSURE MTL/NELSON STUDS - GROUND C3

Page: 36 of 86

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE	
Activity ID	Activity Name	OD	Start	Finish	1.10	ND	2014 2015	2016	2017	2018
— SS 002220	WALL REBAR - LOWER CONCOURSE 2ND LIFT - C3	15	15 lon 15	05-Feb-15	AISI	NU	JFMAMJJASONDJFMAMJJASOND WALL REBAR - LOWE			
SS-002320 SS-002330	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C3		15-Jan-15 23-Jan-15	12-Feb-15	_		WALL REBAR - LOWE WALL FORM AND PO			
	EYEBROW FORMWORK - GROUND C3	10	13-Feb-15	27-Feb-15	_		EYEBROW FORMW		DE ZIND LIFT - C3	
SS-203140				_	_				D 02	
SS-203180	REBAR & MEP: EYEBROW & DECK - GROUND C3	15	13-Feb-15	06-Mar-15	_			BROW & DECK - GROUN		
SS-203200	POUR EYEBROW & METAL DECK - GROUND C3	2	09-Mar-15	10-Mar-15				METAL DECK - GROUNI	J C3	
SS-203220	LAYOUT & CONTROL - GROUND C3	5	11-Mar-15	17-Mar-15	_		LAYOUT & CONTR			
SS-203240	CURE & STRIP EYEBROW - GROUND C3	15	11-Mar-15	31-Mar-15	_			'EBROW - GROUND C3	NIND 00	
SS-203260	INSTALL TRACK, CLIPS & HANGERS - GROUND C3	10	18-Mar-15	31-Mar-15	_		- /	CLIPS & HANGERS - GRO		
SS-203280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - C3	15	01-Apr-15	21-Apr-15	_			PROOFING - UNDERSIDE	OF LVL 2 - C3	
SS-203300	FORM AND PLACE CURBS C3		22-Apr-15	28-Apr-15			I FORM AND PLA	CE CURBS C3		
G3 LEVEL 2	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	83	22-Dec-14							
SS-203360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 C3						DECKING/CLOSURE M	ΓL/NELSON STUDS - LEV	EL 2 C3	
SS-203380	REBAR & MEP - LEVEL 2 C3	15	26-Jan-15	13-Feb-15			■ REBAR & MEP - LEVE	EL 2 C3		
SS-203400	POUR SLAB ON METAL DECK - LEVEL 2 C3	2	11-Mar-15	12-Mar-15			I POUR SLAB ON ME	ETAL DECK - LEVEL 2 C3		
SS-203420	LAYOUT & CONTROL - LEVEL 2 C3	5	13-Mar-15	19-Mar-15			I LAYOUT & CONTR	OL - LEVEL 2 C3		
SS-203440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 C3	10	20-Mar-15	02-Apr-15			INSTALL TRACK,	CLIPS & HANGERS - LEV	EL 2 C3	
SS-203460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - C3	15	03-Apr-15	23-Apr-15			■ SPRAY ON FIRE	PROOFING - UNDERSIDI	OF BUS DECK - C3	
G3 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	97	09-Jan-15	29-May-15						
SS-203520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C3	10	09-Jan-15	23-Jan-15			■ DECKING/CLOSURE M	ITL/NELSON STUDS - BU	S DECK C3	
SS-203540	REBAR & MEP - BUS LEVEL C3	15	09-Feb-15	02-Mar-15			■ REBAR & MEP - BU	S LEVEL C3		
SS-203560	POUR SLAB ON METAL DECK - BUS LEVEL C3	2	13-Mar-15	16-Mar-15			I POUR SLAB ON ME	ETAL DECK - BUS LEVEL	C3	
SS-306070	CURE 10" SLAB - BUS DECK C3	28	17-Mar-15	13-Apr-15			CURE 10" SLAB	BUS DECK C3		
SS-306170	POUR 4" COMPOSITE SLAB - BUS DECK C3	2	14-Apr-15	15-Apr-15			I POUR 4" COMPC	SITE SLAB - BUS DECK	C3	
SS-203580	LAYOUT & CONTROL - BUS LEVEL C3	5	16-Apr-15	22-Apr-15			LAYOUT & CON	TROL - BUS LEVEL C3		
SS-203600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL C3	10	23-Apr-15	06-May-15			■ INSTALL TRAC	K, CLIPS & HANGERS - B	US LEVEL C3	
SS-203620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - C3	15	07-May-15	29-May-15			■ SPRAY ON FI	REPROOFING - UNDERS	DE OF ROOF DECK - C3	
G ROOF D	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	42	26-Jan-15	25-Mar-15						
SS-203680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK C3	10	26-Jan-15	06-Feb-15			■ DECKING/CLOSURE	MTL/NELSON STUDS - RO	OOF DECK C3	
SS-203700	REBAR & MEP - ROOF LEVEL C3	15	09-Feb-15	02-Mar-15			■ REBAR & MEP - RO	OF LEVEL C3		
SS-203720	POUR SLAB ON METAL DECK - ROOF LEVEL C3	2	17-Mar-15	18-Mar-15			I POUR SLAB ON ME	ETAL DECK - ROOF LEVE	L C3	
SS-203740	LAYOUT & CONTROL - ROOF C3	5	19-Mar-15	25-Mar-15			LAYOUT & CONTR	ROL - ROOF C3		
SUPERSTRI	JCTURE AREA C4 (BUILDING LINES 15 - 17)	169	16-Oct-14	23-Jun-15						
	STRUCT STEEL	60	16-Oct-14	15-Jan-15						
	REMOVE TRESTLE C4	5	16-Oct-14	22-Oct-14			■ REMOVE TRESTLE C4			
	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C4		23-Oct-14	19-Nov-14	_		STEEL ERECTION, SPREAL	D/TACK DECK (BG/NODE	S/AG STR) C4	
	PLUMB/LINE C4	20	20-Nov-14	19-Dec-14			PLUMB/LINE C4	B/TAOK BEOK (BO/NOBE	S/AG OTTA.) OF	
	STRUCTURAL STEEL WELDING C4		20-Nov-14	15-Jan-15	-		STRUCTURAL STEEL V	WELDING CA		
				21-May-15			STROGTORALSTELL	VLLDING 04		
	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	ļ					MALL WATERDROOFING		OND LIET C4	
	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C4	-	12-Dec-14		-		WALL WATERPROOFING			
	DECKING/CLOSURE MTL/NELSON STUDS - GROUND C4	10	16-Jan-15	30-Jan-15			DECKING/CLOSURE			
	WALL REBAR - LOWER CONCOURSE 2ND LIFT - C4		06-Feb-15		-			ER CONCOURSE 2ND LI		
SS-002430	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C4		13-Feb-15	06-Mar-15	-			OUR - LOWER CONCOU	KOE ZND LIFT - C4	
	EYEBROW FORMWORK - GROUND C4	-	11-Mar-15		-		EYEBROW FORM		IND 04	
	REBAR & MEP: EYEBROW & DECK - GROUND C4		11-Mar-15	31-Mar-15	-			YEBROW & DECK - GROU		
SS-204200	POUR EYEBROW & METAL DECK - GROUND C4	_	01-Apr-15	02-Apr-15				& METAL DECK - GROUN	ID C4	
SS-204220	LAYOUT & CONTROL - GROUND C4	5	03-Apr-15	09-Apr-15			I LAYOUT & CONT	RUL - GROUND C4		

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE	E
Activity ID	Activity Name	OD	Start	Finish	•		2014 2015	2016	2017	2018
					ASD	ND		JFMAMJJASJNC	JFMAMJJASPND	JFMAMJJ
SS-204240	CURE & STRIP EYEBROW - GROUND C4	15	03-Apr-15	23-Apr-15				EYEBROW - GROUND C4		
SS-204260	INSTALL TRACK, CLIPS & HANGERS - GROUND C4	10	10-Apr-15	23-Apr-15			■ INSTALL TRACI	K, CLIPS & HANGERS - GI	ROUND C4	
SS-204280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - C4	15	24-Apr-15	14-May-15			■ SPRAY ON FII	REPROOFING - UNDERSI	DE OF LVL 2 - C4	
SS-204300	FORM AND PLACE CURBS C4	5	15-May-15	21-May-15			I FORM AND P	LACE CURBS C4		
C4 LEVEL :	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	75	02-Feb-15	18-May-15						
SS-204360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 C4	10	02-Feb-15	13-Feb-15			■ DECKING/CLOSURE	MTL/NELSON STUDS - L	EVEL 2 C4	
SS-204380	REBAR & MEP - LEVEL 2 C4	15	03-Mar-15	23-Mar-15			■ REBAR & MEP - L	EVEL 2 C4		
SS-204400	POUR SLAB ON METAL DECK - LEVEL 2 C4	2	03-Apr-15	06-Apr-15			I POUR SLAB ON	METAL DECK - LEVEL 2 C	4	
SS-204420	LAYOUT & CONTROL - LEVEL 2 C4	5	07-Apr-15	13-Apr-15			LAYOUT & CON	TROL - LEVEL 2 C4		
SS-204440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 C4		14-Apr-15	27-Apr-15				K, CLIPS & HANGERS - LE	VEL 2 C4	
	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - C4		28-Apr-15	18-May-15				REPROOFING - UNDERSI		
	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP		17-Feb-15	23-Jun-15						
SS-204520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C4		17-Feb-15				■ DECKING/CLOSUB	E MTL/NELSON STUDS -	BITS DECK C4	
SS-204520	REBAR & MEP - BUS LEVEL C4		17-Feb-15	02-Mai-15 06-Apr-15	_		REBAR & MEP -		BUS DECK C4	
SS-204560	POUR SLAB ON METAL DECK - BUS LEVEL C4			08-Apr-15				METAL DECK - BUS LEVE	1 C4	
			07-Apr-15	· ·	_		CURE 10" SLA		L C4	
SS-306270	CURE 10" SLAB - BUS DECK C4	28	09-Apr-15	06-May-15	_					
SS-306370	POUR 4" COMPOSITE SLAB - BUS DECK C4		07-May-15	08-May-15	_			POSITE SLAB - BUS DECI	(C4	
SS-204580	LAYOUT & CONTROL - BUS LEVEL C4		11-May-15	15-May-15	_		_	NTROL - BUS LEVEL C4		
SS-204600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL C4	10	18-May-15	02-Jun-15				ACK, CLIPS & HANGERS -		
	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - C4		03-Jun-15	23-Jun-15			SPRAY ON	FIREPROOFING - UNDER	SIDE OF ROOF DECK - C4	1
	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP		03-Mar-15							
SS-204680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK C4	10	03-Mar-15	16-Mar-15			■ DECKING/CLOSU	RE MTL/NELSON STUDS -	ROOF DECK C4	
SS-204700	REBAR & MEP - ROOF LEVEL C4	15	17-Mar-15	06-Apr-15			■ REBAR & MEP -	ROOF LEVEL C4		
SS-204720	POUR SLAB ON METAL DECK - ROOF LEVEL C4	2	09-Apr-15	10-Apr-15			I POUR SLAB ON	METAL DECK - ROOF LE	/EL C4	
SS-204740	LAYOUT & CONTROL - ROOF C4	5	13-Apr-15	17-Apr-15			LAYOUT & CON	TROL - ROOF C4		
SUPERSTR	JCTURE AREA C5 (BUILDING LINES 17 - 19)	157	20-Nov-14	13-Jul-15						
☐ C5 ERECT	STRUCT STEEL	60	20-Nov-14	23-Feb-15						
SS-205020	REMOVE TRESTLE C5	5	20-Nov-14	26-Nov-14			REMOVE TRESTLE C5			
SS-205040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C5	20	01-Dec-14	30-Dec-14			STEEL ERECTION, SPR	READ/TACK DECK (BG/NC	DES/AG STR.) C5	
	PLUMB/LINE C5	20	31-Dec-14	30-Jan-15			PLUMB/LINE C5	,	,	
	STRUCTURAL STEEL WELDING C5		31-Dec-14				STRUCTURAL STEI	EL WELDING C5		
□ C5 GROUN	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	119	19-Dec-14	15-Jun-15						
	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C5		19-Dec-14				■ WALL WATERPROOFII	 NG - LOWER CONCOURS	F 2ND LIFT - C5	
	DECKING/CLOSURE MTL/NELSON STUDS - GROUND C5		24-Feb-15		_		T	RE MTL/NELSON STUDS -		
	WALL REBAR - LOWER CONCOURSE 2ND LIFT - C5		02-Mar-15	_				WER CONCOURSE 2ND		
SS-002520	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C5		09-Mar-15	27-Mar-15	-			POUR - LOWER CONCO		
SS-205140	EYEBROW FORMWORK - GROUND C5		01-Apr-15	14-Apr-15	-			MWORK - GROUND C5	CINCL ZIND LIFT I - 00	
SS-205140	REBAR & MEP: EYEBROW & DECK - GROUND C5		01-Apr-15	21-Apr-15	-			EYEBROW & DECK - GRO	DUND C5	
SS-205180	POUR EYEBROW & METAL DECK - GROUND C5		22-Apr-15	23-Apr-15	-			W & METAL DECK - GRO		
SS-205200 SS-205220	LAYOUT & CONTROL - GROUND C5		24-Apr-15	<u>'</u>				NTROL - GROUND C5	U140 00	
			· ·	30-Apr-15	-				\ \5	
SS-205240	CURE & STRIP EYEBROW - GROUND C5		· ·	14-May-15	-			P EYEBROW - GROUND C		
SS-205260	INSTALL TRACK, CLIPS & HANGERS - GROUND C5		01-May-15		_			CK, CLIPS & HANGERS - (
	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - C5		15-May-15		_			FIREPROOFING - UNDER	SIDE OF BOS DECK - C5	
	FORM AND PLACE CURBS C5		09-Jun-15				FORM AND	PLACE CURBS C5		
	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP		10-Mar-15							
SS-205520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C5	10	10-Mar-15	23-Mar-15			■ DECKING/CLOSU	RE MTL/NELSON STUDS	BUS DECK C5	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	١٩٥١	ND	2014 2015		
SS-205540	REBAR & MEP - BUS LEVEL C5	15	07-Apr-15	27-Apr-15	1499		JFMAMJJASONDJFMAMJJASONDJFMAM REBAR & MEP - BUS LEV		11 14 14 14 14 14 14 14
SS-205560	POUR SLAB ON METAL DECK - BUS LEVEL C5	-	28-Apr-15	29-Apr-15	-		I POUR SLAB ON METAL [I C5
SS-306470		28	30-Apr-15	27-May-15	-		CURE 10" SLAB - BUS		
SS-306470	POUR 4" COMPOSITE SLAB - BUS DECK C5	20	28-May-15	29-May-15			I POUR 4" COMPOSITE		(C 5
SS-205580		5	01-Jun-15	05-Jun-15	-		l LAYOUT & CONTROL		(05)
SS-205600		10	08-Jun-15	19-Jun-15	-		I INSTALL TRACK, CLI		DUC LEVEL CE
		-	22-Jun-15		-				SIDE OF ROOF DECK - ¢5
SS-205620	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP		24-Mar-15				SPRAT ON FIREPRI	ROOFING - UNDER	SIDE OF ROOF DECK - ¢5
SS-205680		<u> </u>					■ DECKING/CLOSURE MTL/I	/NELCON STUDE	BOOL DECK OF
SS-205680 SS-205700			24-Mar-15	· ·	-		■ REBAR & MEP - ROOF LE		ROOF DECK C5
			07-Apr-15	27-Apr-15	-				/FL OF
SS-205720		-	30-Apr-15	01-May-15	-		I POUR SLAB ON METAL I		/EL C5
	LAYOUT & CONTROL - ROOF C5	5	04-May-15	08-May-15			I LAYOUT & CONTROL - F	ROOF C5	
	RUCTURE AREA C6 (BUILDING LINES 19 - 20)	661	19-Dec-14	18-Aug-17					
	STRUCT STEEL			23-Feb-15					
	REMOVE TRESTLE C6	-	31-Dec-14				REMOVE TRESTLE C6		
SS-318820	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) C6	10	09-Jan-15	23-Jan-15			■ STEEL ERECTION, SPREAD/TA	ACK DECK (BG/NO	DES/AG STR.) C6
SS-318830			26-Jan-15	06-Feb-15			■ PLUMB/LINE C6		
SS-318840	STRUCTURAL STEEL WELDING C6	20	26-Jan-15	23-Feb-15			STRUCTURAL STEEL WELDII	DING C6	
☐ C6 GROU	ND LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	122	19-Dec-14	18-Jun-15					
SS-002610	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - C6	5	19-Dec-14	29-Dec-14			■ WALL WATERPROOFING - LOWE	ER CONCOURSE	ND LIFT - C6
SS-318890	DECKING/CLOSURE MTL/NELSON STUDS - GROUND C6	10	24-Feb-15	09-Mar-15			■ DECKING/CLOSURE MTL/NE	NELSON STUDS - G	ROUND C6
SS-002620	WALL REBAR - LOWER CONCOURSE 2ND LIFT - C6	10	23-Mar-15	03-Apr-15			■ WALL REBAR - LOWER CO	CONCOURSE 2ND L	IFT - C6
SS-002630	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - C6	10	30-Mar-15	10-Apr-15			■ WALL FORM AND POUR -	- LOWER CONCOL	JRSE 2ND LIFT - C6
SS-318880	EYEBROW FORMWORK - GROUND C6	10	13-Apr-15	24-Apr-15			■ EYEBROW FORMWORK	K - GROUND C6	
SS-318900	REBAR & MEP: EYEBROW & DECK - GROUND C6	15	13-Apr-15	01-May-15			■ REBAR & MEP: EYEBRO	OW & DECK - GRO	UND C6
SS-318910	POUR EYEBROW & METAL DECK - GROUND C6	2	04-May-15	05-May-15			I POUR EYEBROW & MET	TAL DECK - GROU	ND C6
SS-318930	LAYOUT & CONTROL - GROUND C6	5	06-May-15	12-May-15			LAYOUT & CONTROL - (- GROUND C6	
SS-318920	CURE & STRIP EYEBROW - GROUND C6	10	06-May-15	19-May-15			■ CURE & STRIP EYEBRO	ROW - GROUND C	
SS-318940	INSTALL TRACK, CLIPS & HANGERS - GROUND C6	10	13-May-15	28-May-15			■ INSTALL TRACK, CLIPS	PS & HANGERS - G	ROUND C6
SS-318950	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - C6	10	29-May-15	11-Jun-15			SPRAY ON FIREPROC	OOFING - UNDERSI	DE OF BUS DECK - C6
SS-318960	FORM AND PLACE CURBS C6	5	12-Jun-15	18-Jun-15			▮ FORM AND PLACE C	CURBS C6	
C6 BUS D	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	74	10-Mar-15	23-Jun-15					
SS-318970	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK C6	10	10-Mar-15	23-Mar-15	1		■ DECKING/CLOSURE MTL/N	NELSON STUDS	BUS DECK C6
SS-318980	REBAR & MEP - BUS LEVEL C6	15	24-Mar-15	13-Apr-15			■ REBAR & MEP - BUS LEVE	VEL C6	
SS-318990	POUR SLAB ON METAL DECK - BUS LEVEL C6	2	14-Apr-15	15-Apr-15			I POUR SLAB ON METAL D	DECK - BUS LEVEL	. C6
SS-319000	CURE 10" SLAB - BUS DECK C6	28	16-Apr-15	13-May-15			☐ CURE 10" SLAB - BUS D	DECK C6	
SS-319010	POUR 4" COMPOSITE SLAB - BUS DECK C6	2	14-May-15	15-May-15			I POUR 4" COMPOSITE S	SLAB - BUS DECK	C6
SS-319020	LAYOUT & CONTROL - BUS LEVEL C6	5	18-May-15	-			LAYOUT & CONTROL -	- BUS LEVEL C6	
SS-319030	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL C6	10	27-May-15	09-Jun-15		\exists	■ INSTALL TRACK, CLIP	IPS & HANGERS - I	BUS LEVEL C6
SS-319040	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - C6	10	10-Jun-15	23-Jun-15			■ SPRAY ON FIREPRO	OOFING - UNDERS	IDE OF ROOF DECK - C6
G ROOF	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	600	24-Mar-15	18-Aug-17					
SS-319050			24-Mar-15				■ DECKING/CLOSURE MTL/I	_/NELSON STUDS -	ROOF DECK C6
SS-319060			07-Apr-15	27-Apr-15			■ REBAR & MEP - ROOF LE		
	POUR SLAB ON METAL DECK - ROOF LEVEL C6		28-Apr-15	29-Apr-15		=	I POUR SLAB ON METAL [/EL C6
SS-319080			30-Apr-15	06-May-15	1 1		LAYOUT & CONTROL - F		
RC-300901			07-Aug-17	,	-		E D. CO. G CONTINUE		DEMO CRANE PEDES
1.0 000001		10	31 / tag 11	10 / tag 17					= DEINIO QIVIITE I EDEC

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

					and the same of th	JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	2014 2015 2016	2017 2018
- DEMORII	IZE TOOT 4 (CENTRAL TRADE SUBCONTRACTOR)	5	26-Jan-15	30-Jan-15	ASONDJEMAMJJASONDJEMAMJJASONDJEMAMJJASOND	TH MA MITIASI SIND THE MAINT
SS-319090	LIZE TG07.1 (CENTRAL TRADE SUBCONTRACTOR) DEMOBILIZE CRANE ON TRESTLE TG07.1 CENTRAL AREA TRADE SUBCONTRACTOR	5	26-Jan-15	30-Jan-15		TRAL AREA TRADE SURCONTRACTOR
				18-Aug-17		TRAL AREA TRADE SUBCONTRACTOR
	RUCTURE EAST ZONE (E) (BUILDING LINES 20 - 34)	656	30-Dec-14			
	E TG07.1 (EAST TRADE SUBCONTRACTOR)	5	02-Feb-15	06-Feb-15		
SS-319100		5	02-Feb-15	06-Feb-15		REA TRADE SUBCONTRACTOR
	TRUCTURE AREA E1 (BUILDING LINES 20 - 21)	154		11-Aug-15		
	CT STRUCT STEEL	35		30-Mar-15		
SS-20600			09-Feb-15			
SS-20604	· · · · · · · · · · · · · · · · · · ·	10	17-Feb-15	02-Mar-15		NODES/AG STR.) E1
SS-20606		10	03-Mar-15	16-Mar-15		
SS-31858			03-Mar-15	30-Mar-15		
E1 GROU	UND LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	128	30-Dec-14	06-Jul-15		
SS-00311		5		07-Jan-15		
SS-20614		10	31-Mar-15	13-Apr-15		
SS-00312		10	06-Apr-15	17-Apr-15		
SS-00313		10	13-Apr-15	24-Apr-15		URSE 2ND LIFT - E1
SS-20612		10	27-Apr-15	08-May-15		
SS-20618		15	28-Apr-15	18-May-15		
SS-20620		2	19-May-15	20-May-15		UND E1
SS-20624		5	21-May-15	29-May-15		
SS-20622			21-May-15	_		
SS-20626		10	01-Jun-15	12-Jun-15		
SS-20628		10	15-Jun-15	26-Jun-15		SIDE OF BUS DECK - E1
SS-20630		5	29-Jun-15	06-Jul-15		
	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	83	14-Apr-15	11-Aug-15		
SS-20650			14-Apr-15	27-Apr-15		3 - BUS DECK E1
SS-20654		15	12-May-15	03-Jun-15		
SS-20656		2	04-Jun-15	05-Jun-15		:VEL E1
SS-30667		28	06-Jun-15	03-Jul-15		50V 54
SS-30677			06-Jul-15	07-Jul-15		
SS-20658			08-Jul-15	14-Jul-15		
SS-20660	·		15-Jul-15	28-Jul-15		
SS-20662			29-Jul-15	11-Aug-15		ERSIDE OF ROOF DECK - E1
	F DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP 61 DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK E1			16-Jun-15)S BOOF DECK E4
SS-20666			· ·	11-May-15		3 - ROUF DECK ET
SS-20670			12-May-15			
	20 POUR SLAB ON METAL DECK - ROOF LEVEL E1 40 LAYOUT & CONTROL - ROOF E1	5	08-Jun-15 10-Jun-15	16-Jun-15		LLVLL E I
			08-Jan-15	19-Oct-15		
	TRUCTURE AREA E2 (BUILDING LINES 21 - 23)					
	CT STRUCT STEEL		03-Mar-15			
SS-20700		5	03-Mar-15	09-Mar-15		20/NODES/AC STD \ 53
SS-20704	,	20	10-Mar-15	06-Apr-15		JG/NUDES/AG STK.) EZ
SS-20706			07-Apr-15	04-May-15		
SS-31860			07-Apr-15	27-May-15		
	UND LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		08-Jan-15			E OND LIET. FO
SS-00321	10 WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - E2	10	08-Jan-15	22-Jan-15	5 WALL WATERPROOFING - LOWER CONCOURS	z ZND LIFT - EZ

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish		N 11 -	2014 2015	2016	2017	2018
20.00000	WALL PEDAD, LOWED COMPOUNDE OND LIFT, FO	45	22.4.45	00.14 45	A S ^O	וויין	PJFMAMJJASONDJFMAMJJASONC			
SS-003220 SS-003230	WALL REBAR - LOWER CONCOURSE 2ND LIFT - E2 WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - E2		20-Apr-15 27-Apr-15	08-May-15				LOWER CONCOURSE 21 AND POUR - LOWER CON		
				15-May-15	_					
SS-207121	EYEBROW FORMWORK - GROUND E2		28-May-15	10-Jun-15	_			ORMWORK - GROUND E		
SS-207140	DECKING/CLOSURE MTL/NELSON STUDS - GROUND E2		28-May-15	10-Jun-15	_			LOSURE MTL/NELSON ST		
SS-207180	REBAR & MEP: EYEBROW & DECK - GROUND E2 POUR EYEBROW & METAL DECK - GROUND E2	15 2	25-Jun-15	16-Jul-15	_			MEP: EYEBROW & DECK 'EBROW & METAL DECK -		
SS-207200 SS-207240	LAYOUT & CONTROL - GROUND E2		17-Jul-15	20-Jul-15 27-Jul-15				& CONTROL - GROUND E		
	CURE & STRIP EYEBROW - GROUND E2		21-Jul-15		_			STRIP EYEBROW - GRO		
SS-207220 SS-207260	INSTALL TRACK, CLIPS & HANGERS - GROUND E2	15 10	21-Jul-15	10-Aug-15	_			L TRACK, CLIPS & HANGE		
	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - E2	_	28-Jul-15	10-Aug-15	_			,	NDERSIDE OF BUS DECK	F2
SS-207280 SS-207300	FORM AND PLACE CURBS E2		11-Aug-15	31-Aug-15	_			AND PLACE CURBS E2	DERSIDE OF BUS DECK	† EZ
			01-Sep-15	09-Sep-15 19-Oct-15			I FORM	AND PLACE CURBS E2		
	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	89	11-Jun-15				B DEGKING	NOUIDE MEL MEL CON O	TUDO DUO DEOLOGO	
SS-207501	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK E2		11-Jun-15	24-Jun-15	_			LOSURE MTL/NELSON S	TUDS - BUS DECK E2	
SS-207540	REBAR & MEP - BUS LEVEL E2		10-Jul-15	30-Jul-15	_			MEP - BUS LEVEL E2	IC LEVEL EQ	
SS-207560	POUR SLAB ON METAL DECK - BUS LEVEL E2		31-Jul-15	03-Aug-15	_			LAB ON METAL DECK - BI		
SS-306870	CURE 10" SLAB - BUS DECK E2	28		31-Aug-15				10" SLAB - BUS DECK E2		
SS-306970	POUR 4" COMPOSITE SLAB - BUS DECK E2	2	01-Sep-15	02-Sep-15	_			4" COMPOSITE SLAB - BI		
SS-207580	LAYOUT & CONTROL - BUS LEVEL E2	5	-	11-Sep-15	_			UT & CONTROL - BUS LE		
SS-207600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL E2	10	14-Sep-15	25-Sep-15	_			ALL TRACK, CLIPS & HAN		FOK F0
	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - E2		28-Sep-15	19-Oct-15			■ 5P	RAY ON FIREPROOFING	- UNDERSIDE OF ROOF D	JECK - EZ
	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP		25-Jun-15	12-Aug-15						
SS-207661	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK E2		25-Jun-15	09-Jul-15	_			CLOSURE MTL/NELSON	STUDS - ROOF DECK E2	
	REBAR & MEP - ROOF LEVEL E2	15	10-Jul-15	30-Jul-15	_			MEP - ROOF LEVEL E2		
	POUR SLAB ON METAL DECK - ROOF LEVEL E2	2	04-Aug-15	05-Aug-15	_			LAB ON METAL DECK - R	OOF LEVEL E2	
	LAYOUT & CONTROL - ROOF E2	5	06-Aug-15	12-Aug-15			■ LAYOU	& CONTROL - ROOF E2		
	ICTURE AREA E3 (BUILDING LINES 23 - 25)		08-Jan-15	23-Nov-15						
	STRUCT STEEL	60	07-Apr-15	01-Jul-15						
	REMOVE TRESTLE E3		07-Apr-15	13-Apr-15			▮ REMOVE TREST			
	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) E3			11-May-15				· ·	K (BG/NODES/AG STR.) E	3
	PLUMB/LINE E3	20	12-May-15	10-Jun-15			■ PLUMB/LINE			
SS-318620	STRUCTURAL STEEL WELDING E3		12-May-15				STRUCTU	RAL STEEL WELDING E3		
E3 GROUNI	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP	193	08-Jan-15	15-Oct-15						
SS-003310	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - E3	10	08-Jan-15	22-Jan-15			■ WALL WATERPROOF	ING - LOWER CONCOURS	E 2ND LIFT - E3	
SS-003320	WALL REBAR - LOWER CONCOURSE 2ND LIFT - E3	15	11-May-15	02-Jun-15			■ WALL REBA	R - LOWER CONCOURSE	2ND LIFT - E3	
SS-003330	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - E3	15	18-May-15	09-Jun-15			■ WALL FORM	AND POUR - LOWER CO	NCOURSE 2ND LIFT - E3	
SS-208121	EYEBROW FORMWORK - GROUND E3	10	02-Jul-15	16-Jul-15			■ EYEBRO	W FORMWORK - GROUND	E3	
SS-208140	DECKING/CLOSURE MTL/NELSON STUDS - GROUND E3	10	02-Jul-15	16-Jul-15				CLOSURE MTL/NELSON		
SS-208180	REBAR & MEP: EYEBROW & DECK - GROUND E3	15	31-Jul-15	20-Aug-15				& MEP: EYEBROW & DEC	1	
SS-208200	POUR EYEBROW & METAL DECK - GROUND E3		21-Aug-15	24-Aug-15				EYEBROW & METAL DEC		
SS-208240	LAYOUT & CONTROL - GROUND E3		25-Aug-15				1 LAYOU	T & CONTROL - GROUNI	E3	
SS-208220	CURE & STRIP EYEBROW - GROUND E3		25-Aug-15	-				& STRIP EYEBROW - GF		
SS-208260	INSTALL TRACK, CLIPS & HANGERS - GROUND E3		01-Sep-15	-				ALL TRACK, CLIPS & HAN		
SS-208280	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - E3		17-Sep-15	07-Oct-15			■ SPF	RAY ON FIREPROOFING -	UNDERSIDE OF BUS DEC	K - E3
SS-208300	FORM AND PLACE CURBS E3			15-Oct-15			I FO	RM AND PLACE CURBS E	3	
E3 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	89	17-Jul-15	23-Nov-15						
SS-208501	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK E3	10	17-Jul-15	30-Jul-15			■ DECKIN	G/CLOSURE MTL/NELSON	STUDS - BUS DECK E3	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE	E
Activity ID	Activity Name	OD	Start	Finish	1 2 2	INIT	2014 2015	2016	2017	2018
SS-20854	REBAR & MEP - BUS LEVEL E3	15	14-Aug-15	03-Sep-15	AISI	IND	DIFMAMIJASAND	R & MEP - BUS LEVEL E3		
SS-20856	POUR SLAB ON METAL DECK - BUS LEVEL E3	2	08-Sep-15		_			SLAB ON METAL DECK -		
SS-30707		28	10-Sep-15	07-Oct-15	_			E 10" SLAB - BUS DECK I		
SS-30717		2	08-Oct-15	09-Oct-15	_			IR 4" COMPOSITE SLAB -		
SS-20858		5	13-Oct-15	19-Oct-15	_			OUT & CONTROL - BUS I		
SS-20860		10	20-Oct-15	02-Nov-15					ANGERS - BUS LEVEL E3	R
SS-20862			03-Nov-15	23-Nov-15	_			·	IG - UNDERSIDE OF ROOF	
	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP		31-Jul-15	18-Sep-15				TRAT GIVT INCLI NOOF IIV	O ONDERGIDE OF ROOF	DEOK LS
SS-20866			31-Jul-15	13-Aug-15			□ DECKING	G/CLOSURE MTL/NELSO	N STUDS - ROOF DECK E	: R
SS-20870				03-Sep-15	_			R & MEP - ROOF LEVEL E		
SS-20872		2	-	11-Sep-15		\vdash	_	SLAB ON METAL DECK -		
SS-20874		5	14-Sep-15	18-Sep-15	_			UT & CONTROL - ROOF E		
	RUCTURE AREA E4 (BUILDING LINES 25 - 27)		22-Jan-15	04-Jan-16				STA CONTROL ROOF L	10	
	STRUCT STEEL	60	12-May-15	06-Aug-15					1	
SS-30102		1	12-May-15				▮ REMOVE TRES	STLF F4	1	
SS-30104		20	19-May-15	17-Jun-15					ECK (BG/NODES/AG STR.)	F4
SS-30106	· ' '	20	18-Jun-15	16-Jul-15	_		PLUMB/LIN		TOR (BOMODEOMO OTR.)	,
SS-31864		35	18-Jun-15	06-Aug-15	_			URAL STEEL WELDING E	-4	
	ND LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		22-Jan-15	19-Nov-15				JIVIL OTELL WELDING L		
SS-00341			22-Jan-15	04-Feb-15			■ WALL WATERPROOFI	ING - LOWER CONCOUR	PSE 2ND LIFT - E4	
SS-00342		15	03-Jun-15	23-Jun-15		\vdash		R - LOWER CONCOURSE		
SS-00343		15	10-Jun-15	30-Jun-15	_				CONCOURSE 2ND LIFT - E4	4
SS-30114			07-Aug-15	20-Aug-15	_			OW FORMWORK - GROU		
SS-30116			07-Aug-15	20-Aug-15	_			IG/CLOSURE MTL/NELSO		
SS-30118		15	08-Sep-15	28-Sep-15	_			AR & MEP: EYEBROW & D		
SS-30120		2	29-Sep-15	30-Sep-15				R EYEBROW & METAL DE		
SS-30124		5	01-Oct-15	07-Oct-15				OUT & CONTROL - GROU		
SS-30122		-	01-Oct-15	22-Oct-15				RE & STRIP EYEBROW - (
SS-30126		10	08-Oct-15	22-Oct-15			I INS	TALL TRACK, CLIPS & HA	ANGERS - GROUND E4	
SS-30128		15	23-Oct-15	12-Nov-15					G - UNDERSIDE OF BUS D	ECK - E4
SS-30130	FORM AND PLACE CURBS E4	-	13-Nov-15	19-Nov-15			1 F(ORM AND PLACE CURBS	3 E4	
E4 BUS I	ECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	89	21-Aug-15	04-Jan-16					1	
SS-30152	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK E4	10	21-Aug-15	03-Sep-15			■ DECKIN	NG/CLOSURE MTL/NELS	ON STUDS - BUS DECK E4	4
SS-30154	REBAR & MEP - BUS LEVEL E4		22-Sep-15				■ REB	BAR & MEP - BUS LEVEL E	E 4	
SS-30156	POUR SLAB ON METAL DECK - BUS LEVEL E4	2	14-Oct-15	15-Oct-15			I POŲ	JR SLAB ON METAL DEC	K - BUS LEVEL E4	
SS-30727	CURE 10" SLAB - BUS DECK E4	28	16-Oct-15	12-Nov-15			□ Cl	URE 10" SLAB - BUS DEC	K E4	
SS-30737	POUR 4" COMPOSITE SLAB - BUS DECK E4	2	13-Nov-15	16-Nov-15			I PK	OUR 4" COMPOSITE SLAI	B - BUS DECK E4	
SS-30158	LAYOUT & CONTROL - BUS LEVEL E4	5	17-Nov-15	23-Nov-15				AYOUT & CONTROL - BU	JS LEVEL E4	
SS-30160	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL E4	10	24-Nov-15	09-Dec-15				INSTALL TRACK, CLIPS &	& HANGERS - BUS LEVEL	E4
SS-30162	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - E4	15	10-Dec-15	04-Jan-16				SPRAY ON FIREPROOF	FING - UNDERSIDE OF RO	OF DECK - E4
E4 ROOF	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	34	08-Sep-15	26-Oct-15						
SS-30168	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK E4	10	08-Sep-15	21-Sep-15			■ DECK	ING/CLOSURE MTL/NELS	SON STUDS - ROOF DECK	₹ E4
SS-30170	REBAR & MEP - ROOF LEVEL E4	15	22-Sep-15	13-Oct-15			■ REB	BAR & MEP - ROOF LEVEL	L E4	
SS-30172	POUR SLAB ON METAL DECK - ROOF LEVEL E4	2	16-Oct-15	19-Oct-15			I POL	UR SLAB ON METAL DEC	K - ROOF LEVEL E4	
SS-30174	LAYOUT & CONTROL - ROOF E4	5	20-Oct-15	26-Oct-15			I LAY	YOUT & CONTROL - ROO	F E4	
SUPERST	RUCTURE AREA E5 (BUILDING LINES 27 - 29)	248	20-Feb-15	19-Feb-16						
							<u>,</u>			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	AGC	ואור	2014 2015 2015 2016 2010 2015 2015 2015 2015 2015 2015 2015			2018
E E EDECT	STRUCT STEEL	60	18-Jun-15	14-Sep-15	AS	111	DIFMAMIJASINDJEMAMJJASINDJ			11.1444111
SS-302040 SS-302040 SS-302060 SS-302060 SS-318660 SS-318660 SS-003510 SS-003520 SS-003530 SS-302140 SS-302160 SS-3022180 SS-302220 SS-302220 SS-302220 SS-302220 SS-302280 SS-302280 SS-302380 SS-302380 SS-302400 SS-302500 SS-302500 SS-302500 SS-302500	REMOVE TRESTLE E5	5	18-Jun-15	24-Jun-15	_		■ REMOVE TRE	EQTI E ES		
SS-302020 SS-302040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) E5	20	25-Jun-15	23-Jul-15	_				DECK (BG/NODES/AG ST	D \ E5
SS-302040	PLUMB/LINE E5	20	24-Jul-15	20-Aug-15	_		PLUMB/LI		DECK (BG/NODES/AG 31	N.) L3
SS-318660	STRUCTURAL STEEL WELDING E5	35	24-Jul-15 24-Jul-15	14-Sep-15				TURAL STEEL WELDING	2 55	
55-518000	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		20-Feb-15	30-Dec-15			31KOC	TORAL STELL WELDING	LJ	
25 GROUN							■ WALL WATERPROOF	INC LOWER CONCOL	DOE AND LIET ES	
SS-003510 SS-003520	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - E5 WALL REBAR - LOWER CONCOURSE 2ND LIFT - E5	10 15	20-Feb-15 24-Jun-15	05-Mar-15 15-Jul-15	_		_	AR - LOWER CONCOUR		
SS-003520	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - E5	15	01-Jul-15	22-Jul-15	_				CONCOURSE 2ND LIFT - I	E 6
SS-302140	EYEBROW FORMWORK - GROUND E5	10	15-Sep-15	28-Sep-15				ROW FORMWORK - GRO		_3
SS-302140	DECKING/CLOSURE MTL/NELSON STUDS - GROUND E5	10	15-Sep-15	28-Sep-15	-				SON STUDS - GROUND E	5
SS-302180	REBAR & MEP: EYEBROW & DECK - GROUND E5	15	14-Oct-15	03-Nov-15	-			BAR & MEP: EYEBROW		
SS-302200	POUR EYEBROW & METAL DECK - GROUND E5	2	04-Nov-15	05-Nov-15	_			JR EYEBROW & METAL		
SS-302240	LAYOUT & CONTROL - GROUND E5	5	06-Nov-15	12-Nov-15	_			YOUT & CONTROL - GR		
SS-302220	CURE & STRIP EYEBROW - GROUND E5	15	06-Nov-15	30-Nov-15				URE & STRIP EYEBROV		
SS-302260	INSTALL TRACK, CLIPS & HANGERS - GROUND E5	10	13-Nov-15	30-Nov-15	_				HANGERS - GROUND E5	
SS-302280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - E5	15		21-Dec-15					NG - UNDERSIDE OF LVL	
SS-302300	FORM AND PLACE CURBS E5	5	22-Dec-15					FORM AND PLACE CUF		2 20
E ES LEVEL	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	67	29-Sep-15					1 0111171111111111111111111111111111111	20	
SS-302360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 E5	10	29-Sep-15	13-Oct-15			■ DECK	(ING/CLOSURE MTL/NE	LSON STUDS - LEVEL 2 E	5
SS-302380	REBAR & MEP - LEVEL 2 E5	15	28-Oct-15	17-Nov-15	_			BAR & MEP - LEVEL 2 E		
SS-302400	POUR SLAB ON METAL DECK - LEVEL 2 E5	2	18-Nov-15	19-Nov-15	_			OUR SLAB ON METAL DE		
SS-302420	LAYOUT & CONTROL - LEVEL 2 E5	5	20-Nov-15	30-Nov-15	_			AYOUT & CONTROL - LE		
SS-302440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 E5	10	01-Dec-15	14-Dec-15	_				R HANGERS - LEVEL 2 E5	
SS-302460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - E5	-	15-Dec-15						ING - UNDERSIDE OF BU	
- 65 8US DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	86	14-Oct-15	19-Feb-16			T T	OF TOTAL OF THE PROOF	INCO CINDERCIDE OF BO	DEGR E
SS-302520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK E5	10	14-Oct-15	27-Oct-15			□ DEC	KING/CLOSURE MTL/NI	 ELSON STUDS - BUS DEC	K E5
SS-302540	REBAR & MEP - BUS LEVEL E5	15	11-Nov-15	03-Dec-15	-			EBAR & MEP - BUS LEV		I LJ
SS-302560	POUR SLAB ON METAL DECK - BUS LEVEL E5	2	04-Dec-15	07-Dec-15	_			OUR SLAB ON METAL [_	
SS-307470		28	08-Dec-15					CURE 10" SLAB - BUS I		
	POUR 4" COMPOSITE SLAB - BUS DECK E5		05-Jan-16					POUR 4" COMPOSITE		
SS-302580	LAYOUT & CONTROL - BUS LEVEL E5		_	13-Jan-16	_			LAYOUT & CONTROL		
SS-302600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL E5	10	14-Jan-16	28-Jan-16					PS & HANGERS - BUS LE\	 /EL E5
SS-302620	· · · · · · · · · · · · · · · · · · ·	-	29-Jan-16	19-Feb-16	-			- , -	OGFING - UNDERSIDE OF	_
□ F5 ROOF Γ	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP		28-Oct-15	16-Dec-15						
SS-302680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK E5	ļ	28-Oct-15	10-Nov-15			■ DEC	CKING/CLOSURE MTL/N	 ELSON STUDS - ROOF D	ECK E5
SS-302700	REBAR & MEP - ROOF LEVEL E5	15	11-Nov-15	03-Dec-15				EBAR & MEP - ROOF LE		
SS-302720	POUR SLAB ON METAL DECK - ROOF LEVEL E5	2	08-Dec-15	09-Dec-15					ECK - ROOF LEVEL E5	
SS-302740	LAYOUT & CONTROL - ROOF E5	5		16-Dec-15				AYOUT & CONTROL - F		
SUPERSTR	UCTURE AREA E6 (BUILDING LINES 29 - 31)	_	11-Mar-15						-	
F F6 FRECT	STRUCT STEEL			20-Oct-15						
SS-303020	REMOVE TRESTLE E6	ļ	24-Jul-15	30-Jul-15			■ REMOVE T	TRESTI E F6		
SS-303040	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) E6	20	31-Jul-15	27-Aug-15	_				K DECK (BG/NODES/AG	STR) F6
SS-303060	PLUMB/LINE E6			28-Sep-15	_		PLUME		TOTAL DO NODEO/AO	, 20
SS-318680	STRUCTURAL STEEL WELDING E6		28-Aug-15	· ·				JCTURAL STEEL WELD	NG F6	
	D LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		11-Mar-15					SS. SIVIL SILLE WELD		
LO GROON	DELVEE- DEGRAPHAGE - GONG/INIEF/GEIF3/30FF	220	1 I War 13	00 1 00-10						<u> </u>

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

	101011								JOINT VENTU	10.100.000.000.000
Activity ID	Activity Name	OD	Start	Finish		2014	2015	2016	2017	2018
					A S				715491114571	DJFMAMJJ
SS-003610	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - E6	10	11-Mar-15	24-Mar-15			WALL WATERPR	ROOFING - LOWER CONC	OURSE 2ND LIFT - E6	
SS-003620	WALL REBAR - LOWER CONCOURSE 2ND LIFT - E6	15	16-Jul-15	05-Aug-15			■ WALL I	REBAR - LOWER CONCOU	IRSE 2ND LIFT - E6	
SS-003630	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - E6	15	23-Jul-15	12-Aug-15			■ WALL	FORM AND POUR - LOWE	R CONCOURSE 2ND LIF	Г - Е6
SS-303160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND E6	10	21-Oct-15	03-Nov-15			0 [DECKING/CLOSURE MTL/N	IELSON STUDS - GROUN	ND E6
SS-303140	EYEBROW FORMWORK - GROUND E6	10	23-Oct-15	05-Nov-15				EYEBROW FORMWORK - (GROUND E6	
SS-303180	REBAR & MEP: EYEBROW & DECK - GROUND E6	15	18-Nov-15	10-Dec-15				REBAR & MEP: EYEBRO	W & DECK - GROUND E	6
SS-303200	POUR EYEBROW & METAL DECK - GROUND E6	2	11-Dec-15	14-Dec-15				POUR EYEBROW & MET	FAL DECK - GROUND E6	
SS-303240	LAYOUT & CONTROL - GROUND E6	5	15-Dec-15	21-Dec-15				LAYOUT & CONTROL -	GROUND E6	
SS-303220	CURE & STRIP EYEBROW - GROUND E6	15	15-Dec-15	07-Jan-16				CURE & STRIP EYEBR	OW - GROUND E6	
SS-303260	INSTALL TRACK, CLIPS & HANGERS - GROUND E6	10	22-Dec-15	07-Jan-16				INSTALL TRACK, CLIP	\$ & HANGERS - GROUNI	D E 6
SS-303280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - E6	15	08-Jan-16	29-Jan-16				SPRAY ON FIREPRO	OFING - UNDERSIDE OF	LVL 2 - E6
SS-303300	FORM AND PLACE CURBS E6	5	01-Feb-16	05-Feb-16				I FORM AND PLACE O	CURBS E6	
E6 LEVEL :	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	67	04-Nov-15	12-Feb-16						
SS-303360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 E6	10	04-Nov-15	17-Nov-15				DECKING/CLOSURE MTL/	NELSON STUDS - LEVEL	. 2 E6
SS-303380	REBAR & MEP - LEVEL 2 E6	15	04-Dec-15	28-Dec-15			ī	REBAR & MEP - LEVEL	2 E6	
SS-303400	POUR SLAB ON METAL DECK - LEVEL 2 E6	2	29-Dec-15	30-Dec-15				POUR SLAB ON METAL	DECK - LEVEL 2 E6	
SS-303420	LAYOUT & CONTROL - LEVEL 2 E6	5	31-Dec-15	07-Jan-16				LAYOUT & CONTROL	- LEVEL 2 E6	
SS-303440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 E6	10	08-Jan-16	22-Jan-16				■ INSTALL TRACK, CLII	S & HANGERS - LEVEL	2 E 6
SS-303460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - E6	15	25-Jan-16	12-Feb-16				SPRAY ON FIREPRO	OFING - UNDERSIDE O	F BUS DECK - E6
E6 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	88	18-Nov-15	29-Mar-16						
SS-303520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK E6	10	18-Nov-15	03-Dec-15				DECKING/CLOSURE MTL	NELSON STUDS - BUS	DECK E6
SS-303540	REBAR & MEP - BUS LEVEL E6	15	18-Dec-15	12-Jan-16				REBAR & MEP - BUS I	EVEL E6	
SS-303560	POUR SLAB ON METAL DECK - BUS LEVEL E6	2	13-Jan-16	14-Jan-16				I POUR SLAB ON META	L DECK - BUS LEVEL E6	;
SS-307670	CURE 10" SLAB - BUS DECK E6	28	15-Jan-16	11-Feb-16				CURE 10" SLAB - BL	JS DECK E6	
SS-307770	POUR 4" COMPOSITE SLAB - BUS DECK E6	2	12-Feb-16	16-Feb-16				I POUR 4" COMPOSI	TE SLAB - BUS DECK E6	
SS-303580	LAYOUT & CONTROL - BUS LEVEL E6	5	17-Feb-16	23-Feb-16				LAYOUT & CONTRO	OL - BUS LEVEL E6	
SS-303600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL E6	10	24-Feb-16	08-Mar-16				■ INSTALL TRACK, (LIPS & HANGERS - BUS	S LEVEL E6
SS-303620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - E6	15	09-Mar-16	29-Mar-16				SPRAY ON FIRE	PROOFING - UNDERSIDE	E OF ROOF DECK
E6 ROOF D	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	34	04-Dec-15	26-Jan-16						
SS-303680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK E6	10	04-Dec-15	17-Dec-15			i	DECKING/CLOSURE MT	L/NELSON STUDS - ROC	DECK E6
SS-303700	REBAR & MEP - ROOF LEVEL E6	15	18-Dec-15	12-Jan-16				REBAR & MEP - ROOF	LEVEL E6	
	POUR SLAB ON METAL DECK - ROOF LEVEL E6			19-Jan-16				I POUR SLAB ON META	AL DECK - ROOF LEVEL I	E6
SS-303740	LAYOUT & CONTROL - ROOF E6	5	20-Jan-16	26-Jan-16				LAYOUT & CONTROL	- ROOF E6	
□ SUPERSTR	UCTURE AREA E7 (BUILDING LINES 31 - 33.5)	532	30-Jun-15	18-Aug-17						
	STRUCT STEEL			24-Nov-15						
	REMOVE TRESTLE E7			03-Sep-15			■ DEM	OVE TRESTLE E7		
	STEEL ERECTION, SPREAD/TACK DECK (BG/NODES/AG STR.) E7		_	05-Oct-15	_			EEL ERECTION, SPREAD/	TACK DECK (BG/NODES	/AG STR) E7
	PLUMB/LINE E7		06-Oct-15	03-Nov-15	_			PLUMB/LINE E7	TAOR BEOK (BONVOBEO	770 0110.) [7
	STRUCTURAL STEEL WELDING E7			24-Nov-15				\$TRUCTURAL STEEL WE	I DING F7	
	ID LEVEL - DECK PHASE - CONC/MEP/CLIPS/SOFP		30-Jun-15					THOUSING OFFICE WE		
	WALL WATERPROOFING - LOWER CONCOURSE 2ND LIFT - E7		30-Jun-15				□ \\/\\ \ \\/\	ATERPROOFING - LOWER	CONCOLIBRE SVID LIFT	
SS-003710 SS-003720	WALL REBAR - LOWER CONCOURSE 2ND LIFT - E7			26-Aug-15	_			REBAR - LOWER CONCO		- []
					_					_
SS-003730	WALL FORM AND POUR - LOWER CONCOURSE 2ND LIFT - E7		-	02-Sep-15				L FORM AND POUR - LOW		
SS-304160	DECKING/CLOSURE MTL/NELSON STUDS - GROUND E7		-	10-Dec-15	-			DECKING/CLOSURE MT		OND E/
SS-304140	EYEBROW FORMWORK - GROUND E7		01-Dec-15		_			EYEBROW FORMWORK		
55-304180	REBAR & MEP: EYEBROW & DECK - GROUND E7	15	∠9-Dec-15	20-Jan-16				REBAR & MEP: EYEB	MOW & DECK - GROUND	7 = /

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	Alelo	NDI	2014 2015 FMAMJJASONDJFMAMJJASOND	2016 		2018
SS-304200	POUR EYEBROW & METAL DECK - GROUND E7	2	21-Jan-16	22-Jan-16		1-13			IETAL DECK - GROUND E	
SS-304240	LAYOUT & CONTROL - GROUND E7	5	25-Jan-16	29-Jan-16	-			LAYOUT & CONTROL		
SS-304220	CURE & STRIP EYEBROW - GROUND E7	15		12-Feb-16		_		CURE & STRIP EYER		
SS-304260	INSTALL TRACK, CLIPS & HANGERS - GROUND E7	10	01-Feb-16	12-Feb-16	┨ ┃				IPS & HANGERS - GROU	ND E7
SS-304280	SPRAY ON FIREPROOFING - UNDERSIDE OF LVL 2 - E7	15	16-Feb-16	07-Mar-16				•	ROOFING - UNDERSIDE C	
SS-304300	FORM AND PLACE CURBS E7	5	08-Mar-16	14-Mar-16				FORM AND PLACE		
	2 DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	67	11-Dec-15	21-Mar-16						
SS-304360	DECKING/CLOSURE MTL/NELSON STUDS - LEVEL 2 E7	10	11-Dec-15	28-Dec-15				DECKING/CLOSURE M	TL/NELSON STUDS - LEVI	EL 2 E7
SS-304380	REBAR & MEP - LEVEL 2 E7	15	13-Jan-16	03-Feb-16			_	REBAR & MEP - LEVI	EL 2 E7	
SS-304400	POUR SLAB ON METAL DECK - LEVEL 2 E7	2	04-Feb-16	05-Feb-16				I POUR SLAB ON MET	AL DECK - LEVEL 2 E7	
SS-304420	LAYOUT & CONTROL - LEVEL 2 E7	5	08-Feb-16	12-Feb-16				LAYOUT & CONTRO	L - LEVEL 2 E7	
SS-304440	INSTALL TRACK, CLIPS & HANGERS - LEVEL 2 E7	10	16-Feb-16	29-Feb-16				■ INSTALL TRACK, C	 LIPS & HANGERS - LEVE	L 2 E7
SS-304460	SPRAY ON FIREPROOFING - UNDERSIDE OF BUS DECK - E7	15	01-Mar-16	21-Mar-16				■ SPRAY ON FIREP	ROOFING - UNDERSIDE	OF BUS DECK
□ E7 BUS DE	CK - DECK PHASE - CONC/MEP/CLIPS/SOFP	75	29-Dec-15	14-Apr-16						
SS-304520	DECKING/CLOSURE MTL/NELSON STUDS - BUS DECK E7	10	29-Dec-15	12-Jan-16				DECKING/CLOSURE M	 /ITL/NELSON STUDS - BU	S DECK E7
SS-304540	REBAR & MEP - BUS LEVEL E7	15	13-Jan-16	03-Feb-16				REBAR & MEP - BUS	LEVEL E7	
SS-304560	POUR SLAB ON METAL DECK - BUS LEVEL E7	2	08-Feb-16	09-Feb-16				I POUR SLAB ON MET	 TAL DECK - BUS LEVEL E	7
SS-307870	CURE 10" SLAB - BUS DECK E7	28	10-Feb-16	08-Mar-16				CURE 10" SLAB - E	BUS DECK E7	
SS-307970	POUR 4" COMPOSITE SLAB - BUS DECK E7	2	09-Mar-16	10-Mar-16				I POUR 4" COMPOS	SITE SLAB - BUS DECK E7	,
SS-304580	LAYOUT & CONTROL - BUS LEVEL E7	5	11-Mar-16	17-Mar-16				LAYOUT & CONTR	ROL - BUS LEVEL E7	
SS-304600	INSTALL TRACK, CLIPS & HANGERS - BUS LEVEL E7	10	18-Mar-16	31-Mar-16				INSTALL TRACK,	CLIPS & HANGERS - BUS	LEVEL E7
SS-304620	SPRAY ON FIREPROOFING - UNDERSIDE OF ROOF DECK - E7	10	01-Apr-16	14-Apr-16				SPRAY ON FIRE	PROOFING - UNDERSIDE	OF ROOF DEC
F E7 ROOF I	DECK - DECK PHASE - CONC/MEP/CLIPS/SOFP	400	13-Jan-16	18-Aug-17						
SS-304680	DECKING/CLOSURE MTL/NELSON STUDS - ROOF DECK E7	10	13-Jan-16	27-Jan-16				■ DECKING/CLOSURE	MTL/NELSON STUDS - RO	OOF DECK E7
SS-304700	REBAR & MEP - ROOF LEVEL E7	15	28-Jan-16	18-Feb-16				■ REBAR & MEP - RO	OF LEVEL E7	
SS-304720	POUR SLAB ON METAL DECK - ROOF LEVEL E7	2	19-Feb-16	22-Feb-16				■ POUR SLAB ON ME	TAL DECK - ROOF LEVEL	_E7
SS-304740	LAYOUT & CONTROL - ROOF E7	5	23-Feb-16	29-Feb-16				LAYOUT & CONTRO	OL - ROOF E7	
RC-301501	DEMO CRANE PEDESTALS - EAST	10	07-Aug-17	18-Aug-17					■ DEMO	CRANE PEDES
GROUND L	EVEL CONCRETE DECK (BUILDING LINES 33.5 - 35)	42	15-Dec-15	17-Feb-16						
SS-318720	FORMWORK - GROUND LEVEL (33.5 TO 35)	20	15-Dec-15	14-Jan-16	7			FORMWORK - GROUN	ID LEVEL (33.5 TO 35)	
SS-318740	REBAR & MEP: GROUND LEVEL (33.5 TO 35)	15	31-Dec-15	22-Jan-16				REBAR & MEP: GROU	JND LEVEL (33.5 TO 35)	
SS-318750	POUR GROUND LEVEL (33.5 TO 35)	2	25-Jan-16	26-Jan-16				I POUR GROUND LEVE	L (33.5 TO 35)	
SS-318770	LAYOUT & CONTROL (33.5 TO 35)	5	27-Jan-16	02-Feb-16				■ LAYOUT & CONTROL	(33.5 TO 35)	
SS-318760	CURE & STRIP GROUND LEVEL (33.5 TO 35)	15	27-Jan-16	17-Feb-16				■ CURE & STRIP GRO	UND LEVEL (33.5 TO 35)	
SS-318800	FORM AND PLACE CURBS GROUND LEVEL (33.5 TO 35)	5	03-Feb-16	09-Feb-16				■ FORM AND PLACE OF	URBS GROUND LEVEL (33.5 TO 35)
ROUGH INTE	RIORS	471	17-Feb-15	06-Jan-17						
TRAIN BOX		210	18-Aug-15	22-Jun-16						
ZONE 1 (LII	NE 1-10)	85	18-Aug-15	21-Dec-15						
RX-101000	CMU WALLS SHAFTS/UTILITY ROOMS (TRAIN BOX ZONE 1)	25	18-Aug-15	23-Sep-15			☐ CMU	WALLS SHAFTS/UTILITY	ROOMS (TRAIN BOX ZOI	NE 1)
RX-101200	SPRINKLER (TRAIN BOX ZONE 1)	20	24-Sep-15	22-Oct-15			■ SP	RINKLER (TRAIN BOX ZO	NE 1)	
RX-101300	WALL FURRING AND ROUGH FRAMING (TRAIN BOX ZONE 1)	20	23-Oct-15	19-Nov-15			□ V	VALL FURRING AND ROU	IGH FRAMING (TRAIN BO	ZONE 1)
RX-101510	MEP OVERHEAD ROUGH (TRAIN BOX ZONE 1)	20	23-Oct-15	19-Nov-15			N	IEP OVERHEAD ROUGH	(TRAIN BOX ZONE 1)	
RX-101500	MEP WALL ROUGH (TRAIN BOX ZONE 1)	20	20-Nov-15	21-Dec-15				MEP WALL ROUGH (TR	AIN BOX ZONE 1)	
ZONE 2 (LII		75	24-Sep-15	14-Jan-16						
RX-101600	CMU WALLS SHAFTS/UTILITY ROOMS (TRAIN BOX ZONE 2)	20	24-Sep-15	22-Oct-15			□ CM	U WALLS SHAFTS/UTILIT	Y ROOMS (TRAIN BOX Z	ONE 2)
RX-101800	SPRINKLER (TRAIN BOX ZONE 2)		23-Oct-15					PRINKLER (TRAIN BOX Z	,	,
	,		1					, = = 7.7 =	· '	1

Page: 45 of 86

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE



					_				JOINT VENT	JRE
Activity ID	Activity Name	OD	Start	Finish	ASO	201 DJFMAMJ	2015 AMJJASPN	2016 DJFMAMJJASON	2017 DJFMAMJJASON	2018 DJFMAMJJ
RX-101900	WALL FURRING, ROUGH FRAMING, & TEMP STAIRS (TRAIN BOX ZONE 2)	20	13-Nov-15	14-Dec-15				WALL FURRING, ROUG		
RX-1006250	MEP OVERHEAD ROUGH (TRAIN BOX ZONE 2)	20	13-Nov-15	14-Dec-15				MEP OVERHEAD ROUG	GH (TRAIN BOX ZONE 2)	
RX-102100	MEP WALL ROUGH (TRAIN BOX ZONE 2)	20	15-Dec-15	14-Jan-16				MEP WALL ROUGH (TRAIN BOX ZONE 2)	
ZONE 3 (LIN	NE 17-23)	75	03-Nov-15	24-Feb-16						
RX-103000	CMU WALLS SHAFTS/UTILITY ROOMS (TRAIN BOX ZONE 3)	20	03-Nov-15	02-Dec-15	1			CMU WALLS SHAFTS/U	TILITY ROOMS (TRAIN B	OX ZONE 3)
RX-103200	SPRINKLER (TRAIN BOX ZONE 3)	15	03-Dec-15	23-Dec-15			1	SPRINKLER (TRAIN BO	DX ZONE 3)	,
RX-103300	WALL FURRING, ROUGH FRAMINING, & TEMP STAIRS (TRAIN BOX ZONE 3)	20	28-Dec-15	26-Jan-16				WALL FURRING, RC	UGH FRAMINING, & TEM	IP STAIRS (TRAIN
RX-1006350	MEP OVERHEAD ROUGH (TRAIN BOX ZONE 3)	20	28-Dec-15	26-Jan-16				MEP OVERHEAD RO	DUGH (TRAIN BOX ZONE	3)
RX-103500	MEP WALL ROUGH (TRAIN BOX ZONE 3)	20	27-Jan-16	24-Feb-16				■ MEP WALL ROUG	H (TRAIN BOX ZONE 3)	
ZONE 4 (LIN	NE 23-35)	75	08-Mar-16	22-Jun-16						
RX-103600	CMU WALLS SHAFTS/UTILITY ROOMS (TRAIN BOX ZONE 4)	20	08-Mar-16	04-Apr-16	1			■ CMU WALLS SI	HAFTS/UTILITY ROOMS (TRAIN BOX ZONE
RX-103800	SPRINKLER (TRAIN BOX ZONE 4)	15	05-Apr-16	25-Apr-16					TRAIN BOX ZONE 4)	
RX-103900	WALL FURRING, ROUGH FRAMINING, & TEMP STAIRS (TRAIN BOX ZONE 4)	20	26-Apr-16	23-May-16				-	RING, ROUGH FRAMINING	G, & TEMP STAIRS
RX-1006450	MEP OVERHEAD ROUGH (TRAIN BOX ZONE 4)	20	26-Apr-16	23-May-16					HEAD ROUGH (TRAIN BO	
RX-104100	MEP WALL ROUGH (TRAIN BOX ZONE 4)	20	24-May-16	22-Jun-16					L ROUGH (TRAIN BOX Z	
LOWER CON		150	05-Apr-16	08-Nov-16					,	,
ZONE 1 (LIN		60	05-Apr-16	29-Jun-16						
	CMU WALLS SHAFTS/UTILITY ROOMS (LC ZONE 1)	30	05-Apr-16	16-May-16	1			CMU WALLS	SHAFTS/UTILITY ROOM	S (LC ZONE 1)
RX-1003450	WALL FURRING AND ROUGH FRAME (LC ZONE 1)	10	17-May-16	01-Jun-16				■ WALL FUR	RING AND ROUGH FRAM	IE (LC ZONE 1)
RX-1003350	SPRINKLER (LC ZONE 1)	15	17-May-16	08-Jun-16				■ SPRINKLE	R (LC ZONE 1)	
RX-1003550	MEP OVERHEAD (LC ZONE 1)	20	17-May-16	15-Jun-16				■ MEP OVE	RHEAD (LC ZONE 1)	
RX-1003650	MEP WALL ROUGH (LC ZONE 1)	20	02-Jun-16	29-Jun-16				■ MEP WAI	L ROUGH (LC ZONE 1)	
ZONE 2 (LIN	NE 10-17)	60	17-May-16	11-Aug-16						
RX-1003950	CMU WALLS SHAFTS/UTILITY ROOMS (LC ZONE 2)	30	17-May-16	29-Jun-16				CMU WA	LLS SHAFTS/UTILITY RO	OMS (LC ZONE 2)
RX-1004350	MEP OVERHEAD (LC ZONE 2)	20	16-Jun-16	14-Jul-16				■ MEP OV	ERHEAD (LC ZONE 2)	
RX-1003955	WALL FURRING AND ROUGH FRAME (LC ZONE 2)	10	30-Jun-16	14-Jul-16				■ WALL F	JRRING AND ROUGH FR	AME (LC ZONE 2)
RX-1004150	SPRINKLER (LC ZONE 2)	15	30-Jun-16	21-Jul-16				■ SPRINK	LER (LC ZONE 2)	
RX-1004001	MEP WALL ROUGH (LC ZONE 2)	20	15-Jul-16	11-Aug-16				■ MEP V	VALL ROUGH (LC ZONE :	2)
ZONE 3 (LIN	NE 17-23)	60	30-Jun-16	26-Sep-16						
RX-1004750	CMU WALLS SHAFTS/UTILITY ROOMS (LC ZONE 3)	30	30-Jun-16	11-Aug-16				CMU \	WALLS SHAFTS/UTILITY	ROOMS (LC ZONE
RX-1005150	MEP OVERHEAD (LC ZONE 3)	20	15-Jul-16	11-Aug-16				■ MEP (VERHEAD (LC ZONE 3)	
RX-1005050	WALL FURRING AND ROUGH FRAME (LC ZONE 3)	10	12-Aug-16	25-Aug-16				■ WALI	FURRING AND ROUGH	FRAME (LC ZONE
RX-1004950	SPRINKLER (LC ZONE 3)	15	12-Aug-16	01-Sep-16				■ SPR	NKLER (LC ZONE 3)	
RX-1005250	MEP WALL ROUGH (LC ZONE 3)	20	26-Aug-16	26-Sep-16				■ ME	P WALL ROUGH (LC ZON	NE 3)
ZONE 4 (LIN	NE 23-35)	60	12-Aug-16	08-Nov-16						
RX-1005550	CMU WALLS SHAFTS/UTILITY ROOMS (LC ZONE 4)	30	12-Aug-16	26-Sep-16				■ CM	WALLS SHAFTS/UTILI	TY ROOMS (LC ZC
RX-1005850	MEP OVERHEAD (LC ZONE 4)	20	20-Sep-16	18-Oct-16				■ N	IEP OVERHEAD (LC ZON	E 4)
RX-1005655	WALL FURRING AND ROUGH FRAME (LC ZONE 4)	10	27-Sep-16	11-Oct-16				■ W	ALL FURRING AND ROU	GH FRAME (LC ZC
RX-1005750	SPRINKLER (LC ZONE 4)	15	27-Sep-16	18-Oct-16				■ S	PRINKLER (LC ZONE 4)	
RX-1006050	MEP WALL ROUGH (LC ZONE 4)	20	12-Oct-16	08-Nov-16					MEP WALL ROUGH (LC 2	ZONE 4)
GROUND LE	VEL	274	15-May-15	22-Jun-16						
	ST (BUILDING LINES 1.4 - 8.5)	80	07-Aug-15	03-Dec-15						
RIX-101200	MEPS OVERHEAD - GROUND LEVEL R - WEST	20		03-Sep-15			■ MEP	S OVERHEAD - GROUND	LEVEL R - WEST	
RIX-101100	CMU WALLS - GROUND LEVEL R - WEST	50	14-Aug-15	27-Oct-15	1			CMU WALLS - GROUND LE		
RIX-101105	WALL FURRING AND FRAMING - GROUND LEVEL R - WEST	20	06-Oct-15	03-Nov-15	1			WALL FURRING AND FRA		R - WEST
RIX-101600	MEPS IN-WALL ROUGH - GROUND LEVEL R - WEST	15	04-Nov-15		1			MEPS IN-WALL ROUGH		
			1				_			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	RE
activity ID	Activity Name	OD	Start	Finish	ا ما ما	NID	2015 JEMAN JUAS DID JEMAN JUAS DID	2016	2017 Dulel Wal Wull alala Di Nic	2018
RIX-314700	CEILING FRAMING - GROUND LEVEL R - WEST	20	04-Nov-15	03-Dec-15				CEILING FRAMING - GRO		
	ST (BUILDING LINES 8.5 - 17)	88		22-Sep-15			_			
	MEPS OVERHEAD - GROUND LEVEL R - EAST	20					MEPS OVE	 RHEAD - GROUND LEVEL	R - FAST	
RIX-102100	CMU WALLS - GROUND LEVEL R - EAST	40	19-Jun-15	14-Aug-15	_			ALLS - GROUND LEVEL R		
RIX-102150	WALL FURRING AND FRAMING - GROUND LEVEL R - EAST	20	27-Jul-15	21-Aug-15					- GROUND LEVEL R - EAS	ST
RIX-310900	MEPS IN-WALL ROUGH - GROUND LEVEL R - EAST	15		15-Sep-15				S IN-WALL ROUGH - GROU		
RIX-314800	CEILING FRAMING - GROUND LEVEL R - EAST	20	24-Aug-15	22-Sep-15	_			ING FRAMING - GROUND		
	LL (BUILDING LINES 19 - 25)	91		23-Feb-16			_			
RIX-104300	MEPS OVERHEAD - GROUND LEVEL GRAND HALL	40	08-Oct-15	07-Dec-15				MEPS OVERHEAD - GRC	UND LEVEL GRAND HALI	
RIX-104100	CMU WALLS - GROUND LEVEL GRAND HALL	15		05-Nov-15	_			MU WALLS - GROUND LE		
RIX-104200	WALL FURRING AND FRAMING - GROUND LEVEL GRAND HALL	20	06-Nov-15	07-Dec-15					AMING - GROUND LEVEL	GRAND HAI
RIX-104700	MEPS IN-WALL ROUGH - GROUND LEVEL GRAND HALL	15	08-Dec-15	30-Dec-15	_				H - GROUND LEVEL GRAN	
RIX-314900	CEILING FRAMING - GROUND LEVEL GRAND HALL	20	08-Dec-15	07-Jan-16	_				ROUND LEVEL GRAND HA	
RIX-104500	CEILING MEP CAPS & DROPS - GROUND LEVEL GRAND HALL	40	23-Dec-15		_				S & DROPS - GROUND LE	
	INAL (BUILDING LINES 27 - 34)	70		22-Jun-16						
RIX-105100	CMU WALLS - GROUND LEVEL MUNI TERMINAL	20		11-Apr-16				CMU WALLS - G	ROUND LEVEL MUNI TER	RMINAL
RIX-310300	WALL FURRING AND FRAMING - GROUND LEVEL MUNI TERMINAL	20	12-Apr-16	09-May-16					NG AND FRAMING - GROU	1
RIX-105200	MEPS IN-WALL ROUGH - GROUND LEVEL MUNI TERMINAL	15	-		_				ALL ROUGH - GROUND LE	
RIX-105300	MEPS OVERHEAD - GROUND LEVEL MUNI TERMINAL	20	10-May-16	_	_				RHEAD - GROUND LEVEL	
	CEILING FRAMING - GROUND LEVEL MUNI TERMINAL	30	-	22-Jun-16	_				RAMING - GROUND LEVEL	
LEVEL 2		262	-							
	AIL (BUILDING LINES 1.4 - 8.5)	55	,	31-Aug-15						
RIX-301210	MEPS VERTICAL AND OVERHEAD - LEVEL 2 WEST RETAIL	25	15-Jun-15	20-Jul-15			MEPS VE	RTICAL AND OVERHEAD	LIEVEL 2 WEST RETAIL	
	ROUGH FRAMING WALLS - LEVEL 2 WEST RETAIL	30	15-Jun-15	27-Jul-15	_			FRAMING WALLS - LEVEL		
RIX-301900	WALL FURRING AND MISC. FRAMING - LEVEL 2 WEST RETAIL	10	28-Jul-15	10-Aug-15	_				MING - LEVEL 2 WEST RE	TAII
RIX-315100	CEILING FRAMING - LEVEL 2 WEST RETAIL			10-Aug-15				FRAMING - LEVEL 2 WE		- 17 112
RIX-301600	DRYWALL MECHANICAL SHAFTS - LEVEL 2 WEST RETAIL	25	28-Jul-15	31-Aug-15	_				TS - LEVEL 2 WEST RETAI	JI
	MEP INWALL - LEVEL 2 WEST RETAIL				_			WALL - LEVEL 2 WEST R		<u> </u>
	ETAIL (BUILDING LINES 9.5 - 17)	50	19-May-15	_			_			
	ROUGH FRAMING WALLS - LEVEL 2 CENTRAL RETAIL	20	19-May-15				■ ROUGH FR	 AMING WALLS - LEVEL 2 (CENTRAL RETAIL	
RIX-310700	MEPS VERTICAL AND OVERHEAD - LEVEL 2 CENTRAL RETAIL		19-May-15	_					LEVEL 2 CENTRAL RETAI	JIL
RIX-304400	WALL FURRING AND MISC. FRAMING - LEVEL 2 CENTRAL RETAIL		18-Jun-15	_	_				NG - LEVEL 2 CENTRAL RE	
RIX-315200	CEILING FRAMING - LEVEL 2 CENTRAL RETAIL				_			FRAMING - LEVEL 2 CENT		
RIX-310800	DRYWALL MECHANICAL SHAFTS - LEVEL 2 CENTRAL RETAIL			30-Jul-15	_		DRYWAI	L MECHANICAL SHAFTS	S - LEVEL 2 CENTRAL RETA	AIL
RIX-304500	MEP INWALL - LEVEL 2 CENTRAL RETAIL	10		16-Jul-15			■ MEP INW	 ALL - LEVEL 2 CENTRAL F	RETAIL	
	IL (BUILDING LINES 27- 33.2)	55	22-Mar-16	08-Jun-16						
	ROUGH FRAMING WALLS - LEVEL 2 EAST RETAIL	15	22-Mar-16	11-Apr-16				■ ROUGH FRAMIN	NG WALLS - LEVEL 2 EAST	TRETAIL
RIX-305600	MEPS VERTICAL AND OVERHEAD - LEVEL 2 EAST RETAIL	25	22-Mar-16	25-Apr-16				■ MEPS VERTIC/	AL AND OVERHEAD - LEVI	/EL 2 EAST R
RIX-305400	WALL FURRING AND MECHANICAL SHAFTS - LEVEL 2 EAST RETAIL (15)	20	12-Apr-16	09-May-16				■ WALL FURRIN	NG AND MECHANICAL SHA	AFTS - LEVE
RIX-315300	CEILING FRAMING - LEVEL 2 EAST RETAIL	20	12-Apr-16	09-May-16				☐ CEILING FRAM	MING - LEVEL 2 EAST RET	TAIL
RIX-305500	MEP INWALL & ABOVE CEILINGS - LEVEL 2 EAST RETAIL	20	10-May-16	08-Jun-16				■ MEP INWAL	& ABOVE CEILINGS - LE	EVEL 2 EAST
BUS DECK		359	28-Jul-15	06-Jan-17						
WEST ZONE	(LINES 1-10)	257	28-Jul-15	08-Aug-16						
	CRASH RAILS - BUS DECK WEST	20		24-Aug-15			☐ CRASI	 RAILS - BUS DECK WES	ST	
	WALL ROUGH-FRAME AND FURRING - BUS DECK WEST				-					.
RIX-300600	WALL ROUGHT RAWL AND FURRING - DOS DECK WEST	20	28-Jul-15	24-Aug-15			VVALL 1	TOUGH-FRAIME AIND FUR	RRING - BUS DECK WEST	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

RIX-300700 MEPS RIX-300900 CEILIN RIX-301000 FF&E CENTRAL ZONE (L RIX-307600 WALL RIX-307100 CRASI RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309100 CRASI RIX-309100 CRASI RIX-311500 MEP II	ROUGH-FRAME AND FURRING - BUS DECK CENTRAL SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL ES 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	40 40 10 158 20 30 20 40 40	03-Feb-16 03-Feb-16 09-Jun-16	25-Jul-16 08-Aug-16 18-Aug-16 02-Feb-16 17-Feb-16 02-Mar-16 30-Mar-16		014 JJASPNDJI		WALL ROUGH-FRA CRASH RAILS - BI MEP INWALL - BI	ERHEAD - BUS DECK WE: G MEP CAPS & DROPS (A ROUGH-IN - BUS DECK V ME AND FURRING - BUS US DECK CENTRAL	ST AFTER GFRC FR VEST
RIX-300900 CEILIN RIX-301000 FF&E CENTRAL ZONE (L RIX-307600 WALL RIX-307100 CRASI RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRASI RIX-309100 CRASI	ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK WEST ROUGH-IN - BUS DECK WEST LINES 10-25) L ROUGH-FRAME AND FURRING - BUS DECK CENTRAL SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL ROUGH-IN - BUS DECK CENTRAL S 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	40 10 158 20 30 20 40 40 10 181	26-May-16 26-Jul-16 05-Jan-16 05-Jan-16 05-Jan-16 03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	25-Jul-16 08-Aug-16 18-Aug-16 02-Feb-16 17-Feb-16 02-Mar-16 30-Mar-16				MEPS VERTICAL AND OVI CEILIN FF&E WALL ROUGH-FRA CRASH RAILS - BI MEP INWALL - BI	ERHEAD - BUS DECK WES G MEP CAPS & DROPS (A ROUGH-IN - BUS DECK V ME AND FURRING - BUS US DECK CENTRAL US DECK CENTRAL	ST AFTER GFRC FR VEST
RIX-300900 CEILIN RIX-301000 FF&E CENTRAL ZONE (L RIX-307600 WALL RIX-307100 CRASI RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRASI RIX-309100 CRASI	ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK WEST ROUGH-IN - BUS DECK WEST LINES 10-25) L ROUGH-FRAME AND FURRING - BUS DECK CENTRAL SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL ROUGH-IN - BUS DECK CENTRAL S 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	40 10 158 20 30 20 40 40 10 181	26-May-16 26-Jul-16 05-Jan-16 05-Jan-16 05-Jan-16 03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	25-Jul-16 08-Aug-16 18-Aug-16 02-Feb-16 17-Feb-16 02-Mar-16 30-Mar-16				CEILIN FF&E WALL ROUGH-FRA CRASH RAILS - BI MEP INWALL - BI	G MEP CAPS & DROPS (A ROUGH-IN - BUS DECK V IME AND FURRING - BUS US DECK CENTRAL US DECK CENTRAL	AFTER GFRC FR VEST
RIX-301000 FF&E CENTRAL ZONE (L RIX-307600 WALL RIX-307100 CRASI RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRASI RIX-311500 MEP II	E ROUGH-IN - BUS DECK WEST LINES 10-25) L ROUGH-FRAME AND FURRING - BUS DECK CENTRAL SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL S 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	10 158 20 30 20 40 40 10 181	26-Jul-16 05-Jan-16 05-Jan-16 05-Jan-16 03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	08-Aug-16 18-Aug-16 02-Feb-16 17-Feb-16 02-Mar-16 30-Mar-16 04-Aug-16				WALL ROUGH-FRA CRASH RAILS - BI MEP INWALL - BI	ROUGH-IN - BUS DECK V ME AND FURRING - BUS US DECK CENTRAL US DECK CENTRAL	VEST
CENTRAL ZONE (L RIX-307600 WALL RIX-307100 CRASI RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRASI RIX-311500 MEP II	LINES 10-25) L ROUGH-FRAME AND FURRING - BUS DECK CENTRAL SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL SS 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	158 20 30 20 40 40 10 181	05-Jan-16 05-Jan-16 05-Jan-16 03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	18-Aug-16 02-Feb-16 17-Feb-16 02-Mar-16 30-Mar-16 04-Aug-16				WALL ROUGH-FRA CRASH RAILS - BI MEP INWALL - BI	ME AND FURRING - BUS US DECK CENTRAL US DECK CENTRAL	
RIX-307600 WALL RIX-307100 CRAS RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRAS RIX-311500 MEP II	ROUGH-FRAME AND FURRING - BUS DECK CENTRAL SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL ES 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	20 30 20 40 40 10 181	05-Jan-16 05-Jan-16 03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	02-Feb-16 17-Feb-16 02-Mar-16 30-Mar-16 04-Aug-16				CRASH RAILS - B	US DECK CENTRAL US DECK CENTRAL	DECK CENTRAI
RIX-307100 CRASI RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRASI RIX-311500 MEP II	SH RAILS - BUS DECK CENTRAL INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL ES 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	20 40 40 10 181 20	05-Jan-16 03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	17-Feb-16 02-Mar-16 30-Mar-16 04-Aug-16				CRASH RAILS - B	US DECK CENTRAL US DECK CENTRAL	DEON CENTRAL
RIX-311300 MEP II RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRAS RIX-311500 MEP II	INWALL - BUS DECK CENTRAL S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL ES 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	20 40 40 10 181 20	03-Feb-16 03-Feb-16 09-Jun-16 05-Aug-16	02-Mar-16 30-Mar-16 04-Aug-16				MEP INWALL - BI	US DECK CENTRAL	
RIX-307700 MEPS RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES) RIX-309600 WALL RIX-309100 CRASS RIX-311500 MEP II	S VERTICAL AND OVERHEAD - BUS DECK CENTRAL ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL E ROUGH-IN - BUS DECK CENTRAL ES 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	40 40 10 181 20	03-Feb-16 09-Jun-16 05-Aug-16	30-Mar-16 04-Aug-16						
RIX-307900 CEILIN RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRAS RIX-311500 MEP II	ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK CENTRAL ROUGH-IN - BUS DECK CENTRAL S 25-33.2) ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	40 10 181 20	09-Jun-16 05-Aug-16	04-Aug-16						DECK CENTRA
RIX-308000 FF&E EAST ZONE (LINES RIX-309600 WALL RIX-309100 CRAS RIX-311500 MEP II	ROUGH-IN - BUS DECK CENTRAL S 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	181 20	05-Aug-16						NG MEP CAPS & DROPS (
■ RIX-309600 WALL ■ RIX-309100 CRAS ■ RIX-311500 MEP II	S 25-33.2) L ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	181 20			_				ROUGH-IN - BUS DECK	
RIX-309600 WALL RIX-309100 CRASI RIX-311500 MEP II	ROUGH-FRAME AND FURRING - BUS DECK EAST SH RAILS - BUS DECK EAST	20	10 / 10	06-Jan-17					THOUGH IN BOO BEOK	72111012
RIX-309100 CRAS	SH RAILS - BUS DECK EAST		15-Apr-16	12-May-16				■ WALL BOLK	GH-FRAME AND FURRING	L BUS DECK E
RIX-311500 MEP II			· ·	19-May-16					LS - BUS DECK EAST	- BOS BLOK LA
	INIMALL - BUC DECK EACT	20		13-Jun-16	_				ALL - BUS DECK EAST	
	INWALL - BUS DECK EAST S VERTICAL AND OVERHEAD - BUS DECK EAST	40	13-May-16						/ERTICAL AND OVERHEA	D BUS DECK E
	ING MEP CAPS & DROPS (AFTER GFRC FRAMING) - BUS DECK EAST	40	18-Oct-16	14-Dec-16	_				CEILING MEP CAPS &	
	ROUGH-IN - BUS DECK EAST	15			_				FF&E ROUGH-IN - BL	,
PARK LEVEL	- NOOOH-IN - BOO DEGICEACT	353							TI WE KOOGII-IN - BO	JO DECK LAST
	27 70NF (M) (DIN DINO I INFO 4 40)			05-Oct-15						
	ST ZONE (W) (BUILDING LINES 1-10)		09-Apr-15							
	ST ZONE ROOF PERIMETER STRUCTURAL WALLS		09-Apr-15	09-Sep-15						
	FER STRUCTURAL WALLS (BUILDING LINES 9 - 10)		09-Apr-15	10-Jun-15	_		=			
	M WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF W5		09-Apr-15	22-Apr-15	_			K (ONE-SIDE) STRUCTURA		W5
	AR STRUCTURAL WALLS/CURBS - ROOF W5		16-Apr-15	29-Apr-15	_			UCTURAL WALLS/CURBS		1
	M WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF W5	10	- 1	06-May-15				RK (DOUBLE-UP) STRUCTU		OF W5
	R/STRIP STRUCTURAL WALLS/CURBS - ROOF W5	5	07-May-15		_			IP STRUCTURAL WALLS/C		
	STRUCTURAL WALLS/CURBS - ROOF W5	28					CURE STI	RUCTURAL WALLS/CURB	S - ROOF W5	
	TER STRUCTURAL WALLS (BUILDING LINES 7 - 9)	64	· ·	14-Jul-15			= FORMWOD	NA (ONE OIDE) OTDIJOTUD	AL WALL 0/01/DD0 - D00	E 14/4
	M WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF W4	20		08-May-15				RK (ONE-SIDE) STRUCTUR		- VV4
	AR STRUCTURAL WALLS/CURBS - ROOF W4	20		02-Jun-15				TRUCTURAL WALLS/CURE		DOOE WA
	M WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF W4	20	18-May-15		_			ORK (DOUBLE-UP) STRUC		ROOF W4
	R/STRIP STRUCTURAL WALLS/CURBS - ROOF W4	5	17-Jun-15		_			TRIP STRUCTURAL WALLS		
	E STRUCTURAL WALLS/CURBS - ROOF W4		17-Jun-15				- CURE	STRUCTURAL WALLS/CUF	RDS - ROOF W4	
 	FER STRUCTURAL WALLS (BUILDING LINES 5 - 7)		15-Apr-15	16-Jul-15	_			RK (ONE-SIDE) STRUCTUR	AN WALLS/CUBBS BOO	ν Ε γγ.ο
	M WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF W3		15-Apr-15	12-May-15				TRUCTURAL WALLS/CURE		r W3
	AR STRUCTURAL WALLS/CURBS - ROOF W3		06-May-15		_		_			POOE W2
	M WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF W3		20-May-15					ORK (DOUBLE-UP) STRUC		ROOF W3
	R/STRIP STRUCTURAL WALLS/CURBS - ROOF W3 STRUCTURAL WALLS/CURBS - ROOF W3	5	19-Jun-15		_			TRIP STRUCTURAL WALL STRUCTURAL WALLS/CUI		
	FER STRUCTURAL WALLS (BUILDING LINES 3 - 5)	20	20-Apr-15	16-Jul-15 21-Jul-15	_		- CORE	OTTOOTORAL WALLS/OUT	1001 W3	
 - - - - - - - -	M WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF W2		· ·					RK (ONE-SIDE) STRUCTUF	RAL WALLS/CLIRES - POO)F W/2
	AR STRUCTURAL WALLS/CURBS - ROOF W2		11-May-15		_			TRUCTURAL WALLS/CURI		1 VVZ
	M WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF W2		27-May-15		_			/ORK (DOUBLE-UP) STRU		ROOF W2
	R/STRIP STRUCTURAL WALLS/CURBS - ROOF W2		24-Jun-15		_			STRIP STRUCTURAL WALL		NOI WZ
	E STRUCTURAL WALLS/CURBS - ROOF W2		24-Jun-15 24-Jun-15		_			STRUCTURAL WALLS/CU		
	FER STRUCTURAL WALLS (BUILDING LINES 1 - 3)			09-Sep-15			- CORE	THOUTONAL WALLS/COI	NGO - NGOL VVZ	
	M WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF W1		27-May-15		_			WORK (ONE-SIDE) STRUC	THEAL WALLS/CHEES F	200E W/1

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

										JOINT VENTURE
Activity	[,] ID	Activity Name	OD	Start	Finish	ASO	ND	2014 2015 	2016 AMJJASDND,	2017 2018 JFMAMJJASPNDJFMAMJJ
	SS-313070	REBAR STRUCTURAL WALLS/CURBS - ROOF W1	30	17-Jun-15	29-Jul-15			REBAR STRUCTU		
	SS-313370	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF W1	30	01-Jul-15	12-Aug-15			FORM WORK (De	OUBLE-UP) STRU	CTURAL WALLS/CURBS - ROOF W1
	SS-313170	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF W1	10	13-Aug-15	26-Aug-15			■ POUR/STRIP ST	TRUCTURAL WAL	LS/CURBS - ROOF W1
	SS-313270	CURE STRUCTURAL WALLS/CURBS - ROOF W1	28	13-Aug-15	09-Sep-15			☐ CURE STRUCT	TURAL WALLS/CUI	RBS - ROOF W1
	PARK LEVE	L WEST ZONE STRUCTURES	91	27-May-15	05-Oct-15					
		STRUCTURAL CONCRETE WALLS - PARK DECK WEST	15	27-May-15	16-Jun-15			■ STRUCTURAL CONC	CRETE WALLS - P	ARK DECK WEST
		ERECT DOG HOUSE STEEL - PARK DECK WEST		17-Jun-15	15-Jul-15			■ ERECT DOG HOUS	JSE STEEL - PARK	DECK WEST
	RIX-311900	DECK (& PLACE) DOG HOUSE ROOF - PARK DECK WEST	10	17-Jul-15	30-Jul-15			DECK (& PLACE)) DOG HOUSE ROC	OF - PARK DECK WEST
		WALL ROUGH-FRAME AND FURRING - PARK DECK WEST		31-Jul-15	27-Aug-15		\vdash	, ,	,	RING - PARK DECK WEST
		TEMP ROOF DOG HOUSE - PARK DECK WEST		28-Aug-15					DOG HOUSE - PARI	
		MEPS INWALL - PARK DECK WEST		28-Aug-15	·				LL - PARK DECK W	
		FF&E ROUGH-IN - PARK DECK WEST		29-Sep-15	·				GH-IN - PARK DECK	
		DNE (C) (LINES 10-20)		17-Feb-15	_!					
	_			17-Feb-15	•		\vdash			
		L CENTRAL ZONE ROOF PERIMETER STRUCTURAL WALLS								
		RIMETER STRUCTURAL WALLS (BUILDING LINES 10 - 11)		17-Feb-15	·			E FORM WORK (ONE OIDE) O		10/01/000
		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF C1		-		_		FORM WORK (ONE-SIDE) S		
		REBAR STRUCTURAL WALLS/CURBS - ROOF C1		24-Feb-15	09-Mar-15	_		REBAR STRUCTURAL WAL		
		FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C1		03-Mar-15	16-Mar-15		\sqcup	FORM WORK (DOUBLE-UP	*	
		POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C1	5	17-Mar-15	23-Mar-15	_		POUR/STRIP STRUCTURA		
		CURE STRUCTURAL WALLS/CURBS - ROOF C1	28	24-Mar-15	20-Apr-15	_		□ CURE STRUCTŲRAL WA	ALLS/CURBS - ROC	OF C1
		RIMETER STRUCTURAL WALLS (BUILDING LINES 11 - 13)	63	05-Mar-15	03-Jun-15			<u> </u>		
		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF C2	20	-	01-Apr-15			FORM WORK (ONE-SIDE)	·	
		REBAR STRUCTURAL WALLS/CURBS - ROOF C2	-	26-Mar-15				REBAR STRUCTURAL W		
		FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C2	20	· ·	06-May-15				, i	AL WALLS/CURBS - ROOF C2
		POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C2	_	07-May-15	-			POUR/STRIP \$TRUCTU		
		CURE STRUCTURAL WALLS/CURBS - ROOF C2	28	07-May-15	03-Jun-15			☐ CURE STRUCTURAL	- WALLS/CURBS - F	ROOF C2
		RIMETER STRUCTURAL WALLS (BUILDING LINES 13 - 15)	65		28-Jun-15					
		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF C3	20		22-Apr-15			FORM WORK (ONE-SIDE	,	
		REBAR STRUCTURAL WALLS/CURBS - ROOF C3		16-Apr-15	13-May-15			REBAR STRUCTURAL		
		FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C3		30-Apr-15	-				,	RAL WALLS/CURBS - ROOF C3
	SS-313670	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C3	5	01-Jun-15	05-Jun-15			POUR/STRIP STRUC		
		CURE STRUCTURAL WALLS/CURBS - ROOF C3	28	01-Jun-15	28-Jun-15			■ CURE STRUCTURA	AL WALLS/CURBS	- ROOF C3
	C4 ROOF PE	RIMETER STRUCTURAL WALLS (BUILDING LINES 15 - 17)	64	20-Apr-15	21-Jul-15					
	SS-313970	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF C4	20	20-Apr-15	15-May-15			■ FORM WORK ONE-SI	DE) STRUCTURAL	. WALLS/CURBS - ROOF ¢4
	SS-314070	REBAR STRUCTURAL WALLS/CURBS - ROOF C4	20	11-May-15	09-Jun-15			■ REBAR STRUCTURA	AL WALLS/CURBS	- ROOF C4
	SS-314370	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C4	20	27-May-15	23-Jun-15			FORM WORK (DOUB	/BLE-UP) STRUCT	JRAL WALLS/CURBS - ROOF C4
	SS-314170	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C4	5	24-Jun-15	30-Jun-15			■ POUR/STRIP STRU	JCTURAL WALLS/C	CURBS - ROOF C4
	SS-314270	CURE STRUCTURAL WALLS/CURBS - ROOF C4	28	24-Jun-15	21-Jul-15			☐ CURE STRUCTUR	RAL WALLS/CURBS	S - ROOF C4
	C5 ROOF PE	RIMETER STRUCTURAL WALLS (BUILDING LINES 17 - 19)	65	11-May-15	12-Aug-15					
	SS-314470	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF C5	20	11-May-15	09-Jun-15			FORM WORK (ONE-S	SIDE) STRUCTUR	AL WALLS/CURBS - ROOF C5
	SS-314570	REBAR STRUCTURAL WALLS/CURBS - ROOF C5	20	03-Jun-15	30-Jun-15			■ REBAR STRUCTUR	RAL WALLS/CURBS	S - ROOF C5
	SS-314870	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C5	20	17-Jun-15	15-Jul-15			FORM WORK (DOI	OUBLE-UP) STRUC	TURAL WALLS/CURBS - ROOF C5
	SS-314670	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C5	5	16-Jul-15	22-Jul-15			■ POUR/STRIP STR	RUCTURAL WALLS	/CURBS - ROOF C5
	SS-314770	CURE STRUCTURAL WALLS/CURBS - ROOF C5	28	16-Jul-15	12-Aug-15			☐ CURE STRUCTU	JRAL WALLS/CURI	BS - ROOF C5
	C6 ROOF PE	RIMETER STRUCTURAL WALLS (BUILDING LINES 19 - 20)	44	07-May-15	10-Jul-15					
		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF C6	10	07-May-15	20-May-15			■ FORM WORK (ONE-SI	IDE) STRUCTURAL	_ WALLS/CURBS - ROOF C6
	SS-319120	REBAR STRUCTURAL WALLS/CURBS - ROOF C6	10	14-May-15	29-May-15			■ REBAR STRUCTURAL	L WALLS/CURBS	ROOF C6
		I.		•						

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

							JOINT VENTURE	
Activity ID	Activity Name	OD	Start	Finish	ASP	ND	2014 2015 2016 2017 2 	2018 MAMJJ
SS-319150	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C6	10	21-May-15	05-Jun-15			FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF C6	
SS-319130	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C6	5	08-Jun-15	12-Jun-15			I POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF C6	
SS-319140	CURE STRUCTURAL WALLS/CURBS - ROOF C6	28	13-Jun-15	10-Jul-15			☐ CURE STRUCTURAL WALLS/CURB\$ - ROOF C6	
SS-319150 SS-319130 SS-319140 PARK LEVI RIX-312600 RIX-312700 RIX-314500 RIX-314600 RIX-313200 RIX-313300 RIX-313300 RIX-313300 RIX-313500 RIX-313500 SS-315070 SS-315070 SS-315570 SS-315570 SS-315570 SS-315570 SS-315670 SS-315770	EL CENTRAL ZONE STRUCTURES	91	11-May-15	21-Sep-15				
RIX-312600	STRUCTURAL CONCRETE WALLS - PARK DECK CENTRAL	15	11-May-15	02-Jun-15	_		STRUCTURAL CONCRETE WALLS - PARK DECK CENTRAL	
RIX-314500	ERECT DOG HOUSE STEEL (MISC STRUCTURES)- PARK DECK CENTRAL	20	11-May-15				■ ERECT DOG HOUSE STEEL (MISC STRUCTURES)- PARK DECK CENT	TRAL
RIX-312700	ERECT DOG HOUSE STEEL (ELVTRS)- PARK DECK CENTRAL	20	03-Jun-15	30-Jun-15			■ ERECT DOG HOUSE STEEL (ELVTRS)- PARK DECK CENTRAL	
RIX-314600	DECK (& PLACE) DOG HOUSE ROOF (MISC STRUCTURES) - PARK DECK CENTRAL	10	10-Jun-15	23-Jun-15			DECK (& PLACE) DOG HOUSE ROOF (MISC STRUCTURES) - PARK D	DECK CEI
RIX-312900	DECK (& PLACE) DOG HOUSE ROOF (ELVTRS) - PARK DECK CENTRAL	10	02-Jul-15	16-Jul-15			DECK (& PLACE) DOG HOUSE ROOF (ELVTRS) - PARK DECK CEN	I
RIX-313000	WALL ROUGH-FRAME AND FURRING - PARK DECK CENTRAL	20	17-Jul-15	13-Aug-15			■ WALL ROUGH-FRAME AND FURRING - PARK DECK CENTRAL	
RIX-313100	TEMP ROOF DOG HOUSE - PARK DECK CENTRAL	5	14-Aug-15	20-Aug-15			■ TEMP ROOF DOG HOUSE - PARK DECK CENTRAL	
RIX-313200	MEPS INWALL - PARK DECK CENTRAL	20	14-Aug-15	14-Sep-15			MEPS INWALL - PARK DECK CENTRAL	
RIX-313300	FF&E ROUGH-IN - PARK DECK CENTRAL	5	15-Sep-15	21-Sep-15	-		■ FF&E ROUGH-IN - PARK DECK CENTRAL	
E FAST ZONE	E (E) (BUILDING LINES 20-34)	269		15-Jul-16				
DADK LEVI	,,,							
PARK LEVI	EL EAST ZONE ROOF PERIMETER STRUCTURAL WALLS		-	20-Jun-16				
E1 ROOF PE	ERIMETER STRUCTURAL WALLS (BUILDING LINES 20 - 21)		17-Jun-15	16-Sep-15	_			
SS-314970	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E1	20	17-Jun-15	15-Jul-15	_		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E1	1
SS-315070	REBAR STRUCTURAL WALLS/CURBS - ROOF E1	20	09-Jul-15	05-Aug-15	_		REBAR \$TRUCTURAL WALLS/CURBS - ROOF E1	
SS-315370	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E1	20	23-Jul-15	19-Aug-15	_		FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROC	OF E1
SS-315170	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E1	5	20-Aug-15	26-Aug-15	_		POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E1	
SS-315270	CURE STRUCTURAL WALLS/CURBS - ROOF E1	28	20-Aug-15	16-Sep-15			■ CURÉ STRUCTURAL WALLS/CURBS - ROOF E1	
E2 ROOF PE	ERIMETER STRUCTURAL WALLS (BUILDING LINES 21 - 23)	65	13-Aug-15	16-Nov-15	_		_	
SS-315470	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E2	20	13-Aug-15	11-Sep-15	_		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS ROO	OF E2
SS-315570	REBAR STRUCTURAL WALLS/CURBS - ROOF E2	20	03-Sep-15	02-Oct-15	_		REBAR STRUCTURAL WALLS/CURBS - ROOF E2	
SS-315870	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E2	20	21-Sep-15	19-Oct-15	_		FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS -	ROOF E2
SS-315670	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E2	5	20-Oct-15	26-Oct-15			POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E2	
SS-315770	CURE STRUCTURAL WALLS/CURBS - ROOF E2	28	20-Oct-15	16-Nov-15	_		☐ CURE STRUCTURAL WALLS/CURBS - ROOF E2	
E3 ROOF PE	ERIMETER STRUCTURAL WALLS (BUILDING LINES 23 - 25)	63	21-Sep-15	21-Dec-15	_			
SS-315970	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E3	20	21-Sep-15	19-Oct-15	_		FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - RO	OOF E3
SS-316070	REBAR STRUCTURAL WALLS/CURBS - ROOF E3	20	13-Oct-15	09-Nov-15			REBAR STRUCTURAL WALLS/CURBS - ROOF E3	
SS-316370	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E3	20	27-Oct-15	23-Nov-15			FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS	S - ROOF
SS-316170	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E3	5	24-Nov-15	02-Dec-15			POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E3	
SS-316270	CURE STRUCTURAL WALLS/CURBS - ROOF E3	28	24-Nov-15	21-Dec-15	_		CURE STRUCTURAL WALLS/CURBS - ROOF E3	
E4 ROOF PE	ERIMETER STRUCTURAL WALLS (BUILDING LINES 25 - 27)	69	27-Oct-15	08-Feb-16				
SS-316470	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E4	20	27-Oct-15	23-Nov-15			FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS -	- ROOF E₄
SS-316570	REBAR STRUCTURAL WALLS/CURBS - ROOF E4	20	17-Nov-15	16-Dec-15			REBAR STRUCTURAL WALLS/CURBS - ROOF E4	
SS-316870	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E4	20	03-Dec-15	04-Jan-16			FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CUF	RBS - RO
SS-316670	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E4	5	05-Jan-16	11-Jan-16			POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E4	4
SS-316770	CURE STRUCTURAL WALLS/CURBS - ROOF E4	28	12-Jan-16	08-Feb-16			□ CURE STRUCTURAL WALLS/CURBS - ROOF E4	
SS-316370 SS-316170 SS-316270 E4 ROOF PE SS-316570 SS-316870 SS-316670 SS-31670 E5 ROOF PE SS-317070 SS-317170 SS-317270 E6 ROOF PE	ERIMETER STRUCTURAL WALLS (BUILDING LINES 27 - 29)	70	17-Dec-15	30-Mar-16				
SS-316970	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E5	20	17-Dec-15	19-Jan-16			FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURE	BS - ROO
SS-317070	REBAR STRUCTURAL WALLS/CURBS - ROOF E5	20	12-Jan-16	09-Feb-16			REBAR STRUCTURAL WALLS/CURBS - ROOF E5	
SS-317370	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E5	20	27-Jan-16	24-Feb-16			FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/0	CURBS -
SS-317170	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E5	5	25-Feb-16	02-Mar-16			I POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF	F E5
SS-317270	CURE STRUCTURAL WALLS/CURBS - ROOF E5	28	03-Mar-16	30-Mar-16			☐ CURE STRUCTURAL WALLS/CURBS - ROOF E5	
E6 ROOF PE	ERIMETER STRUCTURAL WALLS (BUILDING LINES 29 - 31)	70	27-Jan-16	04-May-16				
SS-317470	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E6	20	27-Jan-16	24-Feb-16			FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CU	URBS - R(
Lancación Espladada (d. 1								

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	Ado	ND	2014 2015		
SS-317570	REBAR STRUCTURAL WALLS/CURBS - ROOF E6	20	18-Feb-16	16-Mar-16	ASS	11			OJFMAMJJASONDJFMAMJ IRAL WALLS/CURBS - ROOF E6
	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E6	20	03-Mar-16	30-Mar-16	_				QUBLE-UP) STRUCTURAL WALLS/CUR
	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E6	5	31-Mar-16	06-Apr-16	_			,	RUCTURAL WALLS/CURBS - ROOF E6
	CURE STRUCTURAL WALLS/CURBS - ROOF E6	28	07-Apr-16	04-May-16	_				TURAL WALLS/CURBS - ROOF E6
	RIMETER STRUCTURAL WALLS (BUILDING LINES 31 - 33.5)	78	01-Mar-16	20-Jun-16		\rightarrow			. OTALE WALLESTOOM BE THOSE LES
	FORM WORK (ONE-SIDE) STRUCTURAL WALLS/CURBS - ROOF E7	30	01-Mar-16	11-Apr-16	_			FORM WORK (C	NE-SIDE) STRUCTURAL WALLS/CURB
	REBAR STRUCTURAL WALLS/CURBS - ROOF E7	30	22-Mar-16	02-May-16	-			,	TURAL WALLS/CURBS - ROOF E7
	FORM WORK (DOUBLE-UP) STRUCTURAL WALLS/CURBS - ROOF E7	30	05-Apr-16	16-May-16	-				(DOUBLE-UP) STRUCTURAL WALLS/C
	POUR/STRIP STRUCTURAL WALLS/CURBS - ROOF E7	5	17-May-16		-				STRUCTURAL WALLS/CURBS - ROOF
	CURE STRUCTURAL WALLS/CURBS - ROOF E7	28	24-May-16	•		\rightarrow			UCTURAL WALLS/CURBS - ROOF E7
	EL EAST ZONE STRUCTURES	96	01-Mar-16					_ 3323	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
	STRUCTURAL CONCRETE WALLS - PARK DECK EAST		01-Mar-16					STRUCTURAL CO	DNCRETE WALLS - PARK DECK EAST
	ERECT DOG HOUSE STEEL - PARK DECK EAST	20	22-Mar-16	18-Apr-16	_				OUSE STEEL - PARK DECK EAST
	DECK (& PLACE) DOG HOUSE ROOF - PARK DECK EAST	10	20-Apr-16	03-May-16	-				CE) DOG HOUSE ROOF - PARK DECK E
	WALL ROUGH-FRAME AND FURRING - PARK DECK EAST	20	04-May-16	02-Jun-16		\rightarrow		,	H-FRAME AND FURRING PARK DECK
	TEMP ROOF DOG HOUSE - PARK DECK EAST	5	03-Jun-16	09-Jun-16	_				F DOG HOUSE - PARK DECK EAST
	MEPS INWALL - PARK DECK EAST	20	03-Jun-16	30-Jun-16	_				/ALL - PARK DECK EAST
	FF&E ROUGH-IN - PARK DECK EAST		01-Jul-16	15-Jul-16	_				UGH-IN - PARK DECK EAST
FINISH INTER			22-Dec-15						
LOWER CON			30-Jun-16	15-Mar-17		\rightarrow			
ZONE 1 (LIN			30-Jun-16						
FIX-314700	VERTICAL DRYWALL & TAPING - LOWER CONCOURSE ZONE 1	20	30-Jun-16	28-Jul-16				■ VERTIC	AL DRYWALL & TAPING - LOWER CONC
FIX-314800	INSTALL DOORS AND HARDWARE - LOWER CONCOURSE ZONE 1	10	29-Jul-16	11-Aug-16	-				L DOORS AND HARDWARE - LOWER C
FIX-314900	PAINT & WALL COVERINGS - LOWER CONCOURSE ZONE 1	10	12-Aug-16	25-Aug-16	-				& WALL COVERINGS - LOWER CONCO
FIX-315000	MISC. FLOORING - LOWER CONCOURSE ZONE 1		26-Aug-16	12-Sep-16					FLOORING - LOWER CONCOURSE ZO
FIX-315100	FURNISHINGS & ACCESSORIES - LOWER CONCOURSE ZONE 1	20	26-Aug-16	26-Sep-16	-				NISHINGS & ACCESSORIES - LOWER (
FIX-315200	MEPF TRIM - LOWER CONCOURSE ZONE 1		13-Sep-16	03-Oct-16	_				PF TRIM - LOWER CONCOURSE ZONE
FIX-315300	PUNCH - LOWER CONCOURSE ZONE 1	20	04-Oct-16	01-Nov-16	_				UNCH - LOWER CONCOURSE ZONE 1
ZONE 2 (LIN		85	12-Aug-16						
	VERTICAL DRYWALL & TAPING - LOWER CONCOURSE ZONE 2		12-Aug-16		-			□ \/FR1	FICAL DRYWALL & TAPING - LOWER CO
FIX-315500	INSTALL DOORS AND HARDWARE - LOWER CONCOURSE ZONE 2		13-Sep-16		-				TALL DOORS AND HARDWARE - LOWE
FIX-315600	PAINT & WALL COVERINGS - LOWER CONCOURSE ZONE 2		27-Sep-16	<u> </u>	-				INT & WALL COVERINGS - LOWER CON
FIX-315700	MISC. FLOORING - LOWER CONCOURSE ZONE 2	10	12-Oct-16	25-Oct-16	-				ISC. FLOORING - LOWER CONCOURSE
FIX-315800	FURNISHINGS & ACCESSORIES - LOWER CONCOURSE ZONE 2	20	12-Oct-16	08-Nov-16	-				FURNISHINGS & ACCESSORIES - LOWE
FIX-315900	MEPF TRIM - LOWER CONCOURSE ZONE 2		26-Oct-16	15-Nov-16		\rightarrow			MEPF TRIM - LOWER CONCOURSE ZON
	PUNCH - LOWER CONCOURSE ZONE 2	20		15-Dec-16	-			_	PUNCH - LOWER CONCOURSE ZONE
ZONE 3 (LIN		85	27-Sep-16					_	TOTAL LOWER BOTTON AND LONG
FIX-316800	VERTICAL DRYWALL & TAPING - LOWER CONCOURSE ZONE 3	20	27-Sep-16	25-Oct-16				□ VE	 ERTICAL DRYWALL & TAPING - LOWER
FIX-316900	INSTALL DOORS AND HARDWARE - LOWER CONCOURSE ZONE 3		26-Oct-16	08-Nov-16	_				NSTALL DOORS AND HARDWARE - LOV
FIX-317000	PAINT & WALL COVERINGS - LOWER CONCOURSE ZONE 3	10	09-Nov-16			-		_	PAINT & WALL COVERINGS - LOWER C
FIX-317100	MISC. FLOORING - LOWER CONCOURSE ZONE 3		23-Nov-16		-				MISC. FLOORING - LOWER CONCOUR
FIX-317200	FURNISHINGS & ACCESSORIES - LOWER CONCOURSE ZONE 3	20	23-Nov-16	22-Dec-16					FURNISHINGS & ACCESSORIES - LO
FIX-317300	MEPF TRIM - LOWER CONCOURSE ZONE 3	15	09-Dec-16	_					MEPF TRIM - LOWER CONCOURSE
	PUNCH - LOWER CONCOURSE ZONE 3	20	03-Jan-17	31-Jan-17					■ PUNCH - LOWER CONCOURSE ZO
ZONE 4 (LIN			09-Nov-16			+			
	VERTICAL DRYWALL & TAPING - LOWER CONCOURSE ZONE 4	20	09-Nov-16					_	VERTICAL DRYWALL & TAPING - LOW
- 11/10100	The state of the s		30 110 10	00 200 10					

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

A 15	To a series		10	1			2011	0010	JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	ASP	ND	2014 2015 JFMAMJJASINDJFMAMJJASIN	2016 	2017 2018 2017 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018
■ FIX-316200	INSTALL DOORS AND HARDWARE - LOWER CONCOURSE ZONE 4	10	09-Dec-16	22-Dec-16		<u> </u>			INSTALL DOORS AND HARDWARE - L
■ FIX-316300	PAINT & WALL COVERINGS - LOWER CONCOURSE ZONE 4	10	23-Dec-16	09-Jan-17				1	PAINT & WALL COVERINGS - LOWER
■ FIX-316400	MISC. FLOORING - LOWER CONCOURSE ZONE 4	10	10-Jan-17	24-Jan-17					■ MISC. FLOORING - LOWER CONCO
■ FIX-316500	FURNISHINGS & ACCESSORIES - LOWER CONCOURSE ZONE 4	20	10-Jan-17	07-Feb-17					FURNISHINGS & ACCESSORIES - I
■ FIX-316600	MEPF TRIM - LOWER CONCOURSE ZONE 4	15	25-Jan-17	14-Feb-17					■ MEPF TRIM - LOWER CONCOURS
FIX-316700	PUNCH - LOWER CONCOURSE ZONE 4	20	15-Feb-17	15-Mar-17					■ PUNCH - LOWER CONCOURSE
TRAIN BOX		210	22-Dec-15	25-Oct-16					
ZONE 1 (LIN	IE 1-10)	85	22-Dec-15	25-Apr-16					
FIX-317500	VERTICAL DRYWALL & TAPING - TRAIN BOX ZONE 1	20	22-Dec-15	22-Jan-16				VERTICAL DRYWALL	& TAPING - TRAIN BOX ZONE 1
FIX-317600	INSTALL DOORS AND HARDWARE - TRAIN BOX ZONE 1	10	25-Jan-16	05-Feb-16				INSTALL DOORS AN	HARDWARE - TRAIN BOX ZONE 1
FIX-317800	PAINT & WALL COVERINGS - TRAIN BOX ZONE 1	10	08-Feb-16	22-Feb-16				■ PAINT & WALL COV	ERINGS - TRAIN BOX ZONE 1
FIX-317700	MISC. FLOORING - TRAIN BOX ZONE 1	10	23-Feb-16	07-Mar-16				MISC. FLOORING	TRAIN BOX ZONE 1
FIX-318000	FURNISHINGS & ACCESSORIES - TRAIN BOX ZONE 1	20	23-Feb-16	21-Mar-16				■ FURNISHINGS &	ACCESSORIES - TRAIN BOX ZONE 1
FIX-317900	MEPF TRIM - TRAIN BOX ZONE 1	15	08-Mar-16	28-Mar-16				■ MEPF TRIM - TRA	IN BOX ZONE 1
FIX-318100	PUNCH - TRAIN BOX ZONE 1	20	29-Mar-16	25-Apr-16				■ PUNCH - TRAIN	BOX ZONE 1
ZONE 2 (LIN	IE 10-17)	90	15-Jan-16	23-May-16					
FIX-318200	VERTICAL DRYWALL & TAPING - TRAIN BOX ZONE 2	20	15-Jan-16	12-Feb-16				■ VERTICAL DRYWAL	& TAPING - TRAIN BOX ZONE 2
FIX-318300	INSTALL DOORS AND HARDWARE - TRAIN BOX ZONE 2	10	16-Feb-16	29-Feb-16				INSTALL DOORS A	ND HARDWARE - TRAIN BOX ZONE 2
FIX-318500	PAINT & WALL COVERINGS - TRAIN BOX ZONE 2	10	01-Mar-16	14-Mar-16				PAINT & WALL CC	VERINGS - TRAIN BOX ZONE 2
FIX-318400	MISC. FLOORING - TRAIN BOX ZONE 2	10	15-Mar-16	28-Mar-16					- TRAIN BOX ZONE 2
FIX-318700	FURNISHINGS & ACCESSORIES - TRAIN BOX ZONE 2	20	15-Mar-16	11-Apr-16				■ FURNISHINGS 8	ACCESSORIES - TRAIN BOX ZONE 2
FIX-318600	MEPF TRIM - TRAIN BOX ZONE 2	15	29-Mar-16	18-Apr-16				■ MEPF TRIM - TF	RAIN BOX ZONE 2
FIX-318800	PUNCH - TRAIN BOX ZONE 2	20	26-Apr-16	23-May-16				■ PUNCH - TRA	IN BOX ZONE 2
ZONE 3 (LIN		85	25-Feb-16	<u>.</u>					
FIX-319600	VERTICAL DRYWALL & TAPING - TRAIN BOX ZONE 3	20	25-Feb-16	23-Mar-16				■ VERTICAL DRYW	ALL & TAPING - TRAIN BOX ZONE 3
■ FIX-319700	INSTALL DOORS AND HARDWARE - TRAIN BOX ZONE 3	10	24-Mar-16	06-Apr-16				■ INSTALL DOORS	AND HARDWARE - TRAIN BOX ZONE 3
FIX-319900	PAINT & WALL COVERINGS - TRAIN BOX ZONE 3	10	07-Apr-16	20-Apr-16				PAINT & WALL	COVERINGS - TRAIN BOX ZONE 3
FIX-319800	MISC. FLOORING - TRAIN BOX ZONE 3	10	21-Apr-16	04-May-16				■ MISC. FLOORI	NG - TRAIN BOX ZONE 3
FIX-320100	FURNISHINGS & ACCESSORIES - TRAIN BOX ZONE 3	20	21-Apr-16	18-May-16				■ FURNISHING	\$ & ACCESSORIES - TRAIN BOX ZONE :
FIX-320000	MEPF TRIM - TRAIN BOX ZONE 3	15	05-May-16	25-May-16				■ MEPF TRIM -	TRAIN BOX ZONE 3
FIX-320200	PUNCH - TRAIN BOX ZONE 3	20	26-May-16	24-Jun-16				■ PUNCH - T	RAIN BOX ZONE 3
ZONE 4 (LIN	IE 23-35)	85	23-Jun-16	25-Oct-16					
FIX-318900	VERTICAL DRYWALL & TAPING - TRAIN BOX ZONE 4	20	23-Jun-16	21-Jul-16				■ VERTICA	L DRYWALL & TAPING - TRAIN BOX ZOI
FIX-319000	INSTALL DOORS AND HARDWARE - TRAIN BOX ZONE 4	10	22-Jul-16	04-Aug-16				■ INSTALL	DOORS AND HARDWARE - TRAIN BOX
FIX-319200	PAINT & WALL COVERINGS - TRAIN BOX ZONE 4	10	05-Aug-16	18-Aug-16				■ PAINT	& WALL COVERINGS - TRAIN BOX ZONE
FIX-319100	MISC. FLOORING - TRAIN BOX ZONE 4	10	19-Aug-16	01-Sep-16				■ MISC.	FLOORING - TRAIN BOX ZONE 4
FIX-319400	FURNISHINGS & ACCESSORIES - TRAIN BOX ZONE 4	20	19-Aug-16	19-Sep-16				■ FURI	IISHINGS & ACCESSORIES - TRAIN BO
FIX-319300	MEPF TRIM - TRAIN BOX ZONE 4	15	06-Sep-16	26-Sep-16				■ MEP	F TRIM - TRAIN BOX ZONE 4
FIX-319500	PUNCH - TRAIN BOX ZONE 4	20	27-Sep-16	25-Oct-16				■ PL	NCH - TRAIN BOX ZONE 4
GROUND LE	VEL	178	10-Nov-16	31-Jul-17					
RETAIL WE	ST (BUILDING LINES 1.4 - 8.5)	90	28-Nov-16	06-Apr-17					
_	(START) FINISHES - GRND LVL RETAIL W	0	28-Nov-16					♦	(START) FINISHES - GRND LVL RETAIL
FIX-100100	VERTICAL DRYWALL & TAPING - GRND LVL RETAIL W	20	28-Nov-16	23-Dec-16					VERTICAL DRYWALL & TAPING - GRN
FIX-100400	INSTALL DOORS AND HARDWARE - GRND LVL RETAIL W	10	27-Dec-16	10-Jan-17					INSTALL DOORS AND HARDWARE -
FIX-100600	PAINT & WALL COVERINGS - GRND LVL RETAIL W	10	11-Jan-17	25-Jan-17					PAINT & WALL COVERINGS - GRND
FIX-100500	MISC. FLOORING - GRND LVL RETAIL W	10	26-Jan-17	08-Feb-17					■ MISC. FLOORING - GRND LVL RET
	-						1	1	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

							<u></u>	 	JOINT VENTUR	RE
Activity ID	Activity Name	OD	Start	Finish	AlelO	ND	2014 LIFIMAM I IAISINID		2017 DUEMAMUUASSINI	2018
FIX-100900	FURNISHINGS & ACCESSORIES - GRND LVL RETAIL W	25	26-Jan-17	02-Mar-17	7/3/3		JFMAMJJAS JND		FURNISHINGS & A	
FIX-100800	MEPF TRIM - GRND LVL RETAIL W	15		02-Mar-17					■ MEPF TRIM - GRN	
FIX-101000	PUNCH - GRND LVL RETAIL W	20	03-Mar-17	30-Mar-17					■ PUNCH - GRND	
FIX-101100	FF&E (NIC) - GRND LVL RETAIL W	5	31-Mar-17	06-Apr-17					■ FF&E (NIC) - GR	RND LVL RETAII
RETAIL EAS	ST (BUILDING LINES 8.5 - 17)	90	10-Nov-16							
FIX-313700	(START) FINISHES - GRND LVL RETAIL E	0	10-Nov-16					•	(START) FINISHES - GRND	LVL RETAIL E
FIX-313800	VERTICAL DRYWALL & TAPING - GRND LVL RETAIL E	20	10-Nov-16	09-Dec-16					VERTICAL DRYWALL &	TAPING - GRNI
FIX-313900	INSTALL DOORS AND HARDWARE - GRND LVL RETAIL E	10	12-Dec-16	23-Dec-16					INSTALL DOORS AND I	
FIX-313825	TERRAZZO FLOORING - GRND LVL RETAIL E	10	12-Dec-16	23-Dec-16					TERRAZZO FLOORING	GRND LVL R
FIX-313925	WALK-OFF MATS - GRND LVL RETAIL E	5	27-Dec-16	03-Jan-17					■ WALK-OFF MATS - GR	
FIX-314000	PAINT & WALL COVERINGS - GRND LVL RETAIL E	10	_	10-Jan-17					PAINT & WALL COVER	
FIX-314100	MISC. FLOORING - GRND LVL RETAIL E	10	11-Jan-17	25-Jan-17					MISC. FLOORING - G	SRND LVL RETA
FIX-314200	FURNISHINGS & ACCESSORIES - GRND LVL RETAIL E	15	11-Jan-17	01-Feb-17					■ FURNISHINGS & AC	
FIX-314300	MEPF TRIM - GRND LVL RETAIL E	15	26-Jan-17	15-Feb-17					■ MEPF TRIM - GRND	
FIX-314400	PUNCH - GRND LVL RETAIL E	20	16-Feb-17	16-Mar-17					■ PUNCH - GRND L	.VL RETAIL E
FIX-314500	FF&E (NIC) - GRND LVL RETAIL E	5	17-Mar-17	23-Mar-17					■ FF&E (NIC) - GRN	
GRAND HAI		135	17-Jan-17	31-Jul-17						
FIX-302000	(START) FINISHES - GROUND LEVEL GH	0	17-Jan-17						♦ (START) FINISHES - (GROUND LEVE
FIX-302100	INTERIOR GLASS AND GLAZING/HANDRAILS - GROUND LEVEL GH	20	17-Jan-17	13-Feb-17					■ INTERIOR GLASS A	
FIX-302700	COLUMN COVERS - GROUND LEVEL GH	20	17-Jan-17	13-Feb-17					■ COLUMN COVERS	
FIX-303300	MEPF OVERHEAD TRIM - GROUND LEVEL GH	20	17-Jan-17	13-Feb-17					■ MEPF OVERHEAD	
FIX-302600	PHASE II STAIR AND ESCALATOR ENCLOSURES - GROUND LEVEL GH	20	14-Feb-17	14-Mar-17					■ PHASE II STAIR A	
FIX-302300	TERRAZZO FLOORING - GROUND LEVEL GH	20	15-Mar-17	11-Apr-17					■ TERRAZZO FLO	
FIX-302400	INSTALL LED SCREEN - GROUND LEVEL GH	15	12-Apr-17	02-May-17					■ INSTALL LED	SCREEN - GRO
FIX-302500	WALK-OFF MATS- GROUND LEVEL GH	15	12-Apr-17	02-May-17					■ WALK-OFF MA	ATS- GROUND
■ FIX-302900	FURNISHINGS & ACCESSORIES (NIC) - GROUND LEVEL GH	20	12-Apr-17	09-May-17					■ FURNISHING	S & ACCESSO
■ FIX-302800	MEPF TRIM - GROUND LEVEL GH	30	12-Apr-17	23-May-17					■ MEPF TRIM	- GROUND LE
FIX-303000	PUNCH - GROUND LEVEL GH	30	24-May-17	10-Jul-17					PUNCH -	GROUND LEV
FIX-303100	FF&E - GROUND LEVEL GH	15	11-Jul-17	31-Jul-17					■ FF&E - 0	GROUND LEVE
H MUNI TERM	INAL (BUILDING LINES 27 - 34)	95	10-Nov-16	30-Mar-17						
FIX-304000	(START) INTERIOR FINISHES - GROUND LEVEL MUNI TERMINAL	0	10-Nov-16					♦ (START) INTERIOR FINISH	IES - GROUND
FIX-304100	VERTICAL DRYWALL & TAPING - GROUND LEVEL MUNI TERMINAL	15	10-Nov-16	02-Dec-16					VERTICAL DRYWALL & 1	TAPING - GRO
FIX-305300	INTERIOR STOREFRONT GLAZING - GROUND LEVEL MUNI TERMINAL	25	10-Nov-16	16-Dec-16					I INTERIOR STOREFROM	NT GLAZING - C
FIX-304300	TERRAZZO FLOORING - GROUND LEVEL MUNI TERMINAL	10	05-Dec-16	16-Dec-16				[TERRAZZO FLOORING	- GROUND LE
FIX-304350	WALK-OFF MATS - GROUND LEVEL MUNI TERMINAL	5	19-Dec-16	23-Dec-16					WALK-OFF MATS - GRO	OUND LEVEL I
■ FIX-304400	INSTALL DOORS AND HARDWARE - GROUND LEVEL MUNI TERMINAL	10	19-Dec-16	03-Jan-17					INSTALL DOORS AND	HARDWARE -
FIX-304600	PAINT & WALL COVERINGS - GROUND LEVEL MUNI TERMINAL	10	04-Jan-17	18-Jan-17					■ PAINT & WALL COVE	RINGS - GROU
FIX-304500	MISC. FLOORING - GROUND LEVEL MUNI TERMINAL	10	19-Jan-17	01-Feb-17					MISC. FLOORING - 0	ROUND LEVE
FIX-304900	FURNISHINGS & ACCESSORIES - GROUND LEVEL MUNI TERMINAL	20	19-Jan-17	15-Feb-17					■ FURNISHINGS & AC	ccessories -
FIX-304800	MEPF TRIM - GROUND LEVEL MUNI TERMINAL	15	02-Feb-17	23-Feb-17					■ MEPF TRIM - GRO	UND LEVEL MI
FIX-305000	PUNCH - GROUND LEVEL MUNI TERMINAL	20	24-Feb-17	23-Mar-17					PUNCH - GROUN	NÞ LEVEL MUN
FIX-305100	FF&E (NIC) - GROUND LEVEL MUNI TERMINAL	5	24-Mar-17	30-Mar-17					I FF&E (NIC) - GR	QUND LEVEL I
LEVEL 2		90	10-Nov-16	23-Mar-17						
₩EST RETA	AIL (BUILDING LINES 1.4 - 8.5)	75	28-Nov-16	16-Mar-17						
FIX-306000	(START) FINISHES - L2 RETAIL WEST	0	28-Nov-16					•	(START) FINISHES - L2 R	RETAIL WEST
FIX-306100	DRYWALL - L2 RETAIL WEST	20	28-Nov-16	23-Dec-16					DRYWALL - L2 RETAIL	WEST
FIX-306100	DRYWALL - L2 RETAIL WEST	20	28-Nov-16	23-Dec-16					DRYWALL - L2 RETAIL	WES

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

								JOINT VENTURE
ID	Activity Name	OD	Start	Finish	ASONE	2014 2015 J FMAMJ J A S N D J F MAMJ J A S N E	2016 J.J.F.M.A.M.J.J.A.S.O.N.I	
FIX-306400	DOORS/FRAMES/HARDWARE - L2 RETAIL WEST	10	27-Dec-16	10-Jan-17				DOORS/FRAMES/HARDWARE
FIX-306600	PAINT & WALL COVERINGS - L2 RETAIL WEST		11-Jan-17	25-Jan-17				PAINT & WALL COVERINGS
FIX-306500	MISC. FLOORING - L2 RETAIL WEST		26-Jan-17	08-Feb-17				■ MISC. FLOORING - L2 RETA
FIX-306800	MEPF TRIM - L2 RETAIL WEST	10		23-Feb-17	-			■ MEPF TRIM - L2 RETAIL W
FIX-307000	PUNCH - L2 RETAIL WEST	15	24-Feb-17	16-Mar-17	-			■ PUNCH - L2 RETAIL WES
FIX-307100	FF&E (NIC) - L2 RETAIL WEST	5	10-Mar-17	16-Mar-17	-			I FF&E (NIC) - L2 RETAIL W
	RETAIL (BUILDING LINES 9.5 - 17)	90						
FIX-307300	(START) FINISHES - L2 RETAIL CENTRAL	0	10-Nov-16		1		• ((START) FINISHES - L2 RETAIL CE
FIX-307400	DRYWALL - L2 RETAIL CENTRAL	15		02-Dec-16	-		,	DRYWALL - L2 RETAIL CENTRAL
FIX-307600	TERRAZZO FLOORING - L2 RETAIL CENTRAL	15		23-Dec-16	-			TERRAZZO FLOORING - L2 RE
FIX-307700	DOORS/FRAMES/HARDWARE - L2 RETAIL CENTRAL	10	27-Dec-16	10-Jan-17	-			DOORS/FRAMES/HARDWARE
FIX-307900	PAINT & WALL COVERINGS - L2 RETAIL CENTRAL	10	11-Jan-17	25-Jan-17				PAINT & WALL COVERINGS
FIX-307800	MISC. FLOORING - L2 RETAIL CENTRAL	5	26-Jan-17	01-Feb-17	-			■ MISC. FLOORING - L2 RETA
FIX-308200	FURNISHINGS & ACCESSORIES - L2 RETAIL CENTRAL	5	26-Jan-17	01-Feb-17	-			I FURNISHINGS & ACCESSO
FIX-308100	MEPF TRIM - L2 RETAIL CENTRAL	15		23-Feb-17	-			■ MEPF TRIM - L2 RETAIL C
FIX-308300	PUNCH - L2 RETAIL CENTRAL	20	24-Feb-17	23-Mar-17	-			PUNCH - L2 RETAIL CEN
FIX-308400	FF&E (NIC) - L2 RETAIL CENTRAL	5	17-Mar-17	23-Mar-17				FF&E (NIC) - L2 RETAIL
	IL(BUILDING LINES 27- 33.2)	75						I TI GE (NIO) EZ KETAIE
FIX-308600	(START) FINISHES - L2 RETAIL EAST	0	10-Nov-16	02 Wai 17			A (START) FINISHES - L2 RETAIL E
	DRYWALL - L2 RETAIL EAST			02-Dec-16	-			` '
FIX-308700	DOORS/FRAMES/HARDWARE - L2 RETAIL EAST	15	10-Nov-16 05-Dec-16	16-Dec-16	-			DRYWALL - L2 RETAIL EAST
FIX-309000		10						DOORS/FRAMES/HARDWARE
FIX-309200	PAINT & WALL COVERINGS - L2 RETAIL EAST	10	19-Dec-16	03-Jan-17	-			PAINT & WALL COVERINGS -
FIX-309100	MISC. FLOORING - L2 RETAIL EAST	5	04-Jan-17	10-Jan-17	-			MISC. FLOORING - L2 RETAI
FIX-309500	FURNISHINGS & ACCESSORIES - L2 RETAIL EAST	5	04-Jan-17	10-Jan-17	-			FURNISHINGS & ACCESSOR
FIX-309400	MEPF TRIM - L2 RETAIL EAST		11-Jan-17	01-Feb-17	-			MEPF TRIM - L2 RETAIL EA
FIX-309600	PUNCH - L2 RETAIL EAST	20	02-Feb-17	02-Mar-17				PUNCH - L2 RETAIL EAST
FIX-309700	FF&E (NIC) - L2 RETAIL EAST	5	24-Feb-17	02-Mar-17	-			■ FF&E (NIC) - L2 RETAIL E
BUS DECK			09-Aug-16					
🚹 WEST ZONE	•		09-Aug-16					
FIX-309900	VERTICAL DRYWALL - BUS DECK WEST	15	09-Aug-16	29-Aug-16				ICAL DRYWALL - BUS DECK WE
RIX-300200	TRAFFIC COATING - BUS DECK WEST	25	09-Aug-16	14-Sep-16			TRA	FFIC COATING - BUS DECK WES
RIX-315400	FRAMING AND ATTACHMENTS INTERIOR GLASS WALLS - BUS DECK WEST	25	30-Aug-16	05-Oct-16			FR.	AMING AND ATTACHMENTS INT
RIX-300500	INTERIOR GLASS WALLS - BUS DECK WEST	25	06-Oct-16	10-Nov-16				INTERIOR GLASS WALLS - BUS I
FIX-310100	TERRAZZO FLOORING - BUS DECK WEST	40	11-Nov-16	11-Jan-17				TERRAZZO FLOORING - BUS
FIX-310200	DOORS/FRAMES/HARDWARE - BUS DECK WEST	10	12-Jan-17	26-Jan-17				■ DOORS/FRAMES/HARDWA
FIX-310300	MISC. FLOORING - BUS DECK WEST	10	27-Jan-17	09-Feb-17				■ MISC. FLOORING - BUS DE
FIX-310400	PAINT & WALL COVERINGS - BUS DECK WEST	10	27-Jan-17	09-Feb-17				■ PAINT & WALL COVERING
FIX-310500	INTERIOR COLUMN COVERS - BUS DECK WEST	10	10-Feb-17	24-Feb-17				■ INTERIOR COLUMN COVE
FIX-310600	MEPF TRIM - BUS DECK WEST	15	10-Feb-17	03-Mar-17				■ MEPF TRIM - BUS DECK
FIX-310700	FURNISHINGS & ACCESSORIES - BUS DECK WEST	15	10-Feb-17	03-Mar-17				■ FURNISHINGS & ACCESS
FIX-310800	PUNCH - BUS DECK WEST	20	06-Mar-17	31-Mar-17				■ PUNCH - BUS DECK WE
FIX-310900	FF&E (NIC) - BUS DECK WEST	5	27-Mar-17	31-Mar-17				I FF&E (NIC) - BUS DECK
The CENTRAL Z	ONE (LINES 10-25)	170	22-Nov-16	31-Jul-17				
FIX-311200	VERTICAL DRYWALL - BUS DECK CENTRAL	15	22-Nov-16	14-Dec-16				VERTICAL DRYWALL - BUS DE
RIX-307200	TRAFFIC COATING - BUS DECK CENTRAL	25	22-Nov-16	29-Dec-16				TRAFFIC COATING - BUS DEC
RIX-315500	FRAMING AND ATTACHMENTS INTERIOR GLASS WALLS - BUS DECK CENTRAL	30	15-Dec-16	30-Jan-17				FRAMING AND ATTACHMEN

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

								JOINT VENTURE
D	Activity Name	OD	Start	Finish	AISIDI	2014 2015 NDJFMAMJJASONDJFMAMJJASOND	2016 JJFMAMJJASONI	2017 20 DJJEMAMJJJASONDJEM
RIX-307500	INTERIOR GLASS WALLS - BUS DECK CENTRAL	30	31-Jan-17	14-Mar-17				INTERIOR GLASS WALLS
FIX-311400	TERRAZZO FLOORING - BUS DECK CENTRAL	40	15-Mar-17	09-May-17				TERRAZZO FLOORIN
FIX-311500	DOORS/FRAMES/HARDWARE - BUS DECK CENTRAL	10	10-May-17	23-May-17				DOORS/FRAMES/HA
FIX-311800	COLUMN COVERS - BUS DECK CENTRAL	10	10-May-17	23-May-17				COLUMN COVERS -
FIX-311900	MEPF TRIM - BUS DECK CENTRAL	15	10-May-17	01-Jun-17	1			■ MEPF TRIM - BUS D
FIX-311700	PAINT & WALL COVERINGS - BUS DECK CENTRAL	10		08-Jun-17				PAINT & WALL COV
FIX-311600	WALK-OFF MAT AND DERMAIC TILE - BUS DECK CENTRAL		09-Jun-17	29-Jun-17				■ WALK-OFF MAT A
FIX-312000	FURNISHINGS & ACCESSORIES - BUS DECK CENTRAL	15		29-Jun-17				■ FURNISHINGS & A
FIX-312100	PUNCH - BUS DECK CENTRAL	20	30-Jun-17	31-Jul-17				PUNCH - BUS
FIX-312200	FF&E (NIC) - BUS DECK CENTRAL	5	25-Jul-17	31-Jul-17				▮ FF&E (NIC) - BU
	E (LINES 25-33.2)		09-Jan-17	28-Aug-17				
FIX-312500	VERTICAL DRYWALL - BUS DECK EAST	15	09-Jan-17	30-Jan-17				■ VERTICAL DRYWALL - BUS
RIX-309200	TRAFFIC COATING - BUS DECK EAST	25	09-Jan-17	13-Feb-17	1			■ TRAFFIC COATING - BUS D
RIX-315600	FRAMING AND ATTACHMENTS INTERIOR GLASS WALLS - BUS DECK EAST	20	31-Jan-17	28-Feb-17	1			■ FRAMING AND ATTACHM
RIX-309500	INTERIOR GLASS WALLS - BUS DECK EAST	20	01-Mar-17	28-Mar-17	1			■ INTERIOR GLASS WALL
FIX-312700	TERRAZZO FLOORING - BUS DECK EAST	40	29-Mar-17	23-May-17				TERRAZZO FLOOR
FIX-312800	DOORS/FRAMES/HARDWARE - BUS DECK EAST	10	24-May-17	08-Jun-17				■ DOORS/FRAMES/
FIX-313000	PAINT & WALL COVERINGS - BUS DECK EAST		09-Jun-17	22-Jun-17				PAINT & WALL CO
FIX-312900	MISC. FLOORING - BUS DECK EAST	10		10-Jul-17				■ MISC. FLOORIN
FIX-313300	FURNISHINGS & ACCESSORIES - BUS DECK EAST	15		17-Jul-17				■ FURNISHINGS
FIX-313100	COLUMN COVERS - BUS DECK EAST	10	11-Jul-17	24-Jul-17				■ COLUMN COVE
FIX-313200	MEPF TRIM - BUS DECK EAST		11-Jul-17	31-Jul-17				■ MEPF TRIM - E
FIX-313400	PUNCH - BUS DECK EAST	20	01-Aug-17	28-Aug-17	1			PUNCH - BU
FIX-313500	FF&E (NIC) - BUS DECK EAST	5	22-Aug-17	28-Aug-17	1 1			■ FF&E (NIC) -
EXTERIOR EN		322	03-Nov-15					
PRECAST G		267						
LEVEL 2		129		23-May-16				
	FOT A CHAM ALLEY (DIN DING LINES 4.4.40)							
	EST & SHAW ALLEY (BUILDING LINES 1.4 - 10)	90		29-Mar-16		_		
_	INSTALL FRAMING & ATTACHMENTS - RETAIL WEST / SHAW (PHASE 1 OF 2)	40		15-Jan-16		<u> </u>	T	ATTACHMENTS - RETAIL WEST
	INSTALL FRAMING & ATTACHMENTS - RETAIL WEST / SHAW (PHASE 2 OF 2)		19-Jan-16					ATTACHMENTS - RETAIL WEST
	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - RETAIL WEST / SHAW		02-Feb-16					ELD FASCIA & PERIMETER GFF
	CAULK & INSPECT PRECAST GFRC PANELS - RETAIL WEST / SHAW		16-Mar-16				CAULK & INSPEC	T PRECAST GFRC PANELS - R
	AST (BUILDING LINES 10 - 17)			01-Feb-16				
	INSTALL FRAMING & ATTACHMENTS - RETAIL EAST		16-Nov-15			_		TTACHMENTS - RETAIL EAST
	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - RETAIL EAST		04-Jan-16	_				FASCIA & PERIMETER GFRC -
	CAULK & INSPECT PRECAST GFRC PANELS - RETAIL EAST		26-Jan-16				CAULK & INSPECT P	RECAST GFRC PANELS - RETAI
1ST STREE	ET (BUILDING LINES 17 - 19)		16-Dec-15					
PC-103400	INSTALL FRAMING & ATTACHMENTS - 1ST STREET		16-Dec-15				INSTALL FRAMING &	ATTACHMENTS - 1ST STREET
	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - 1ST STREET		26-Jan-16				_ ′	D FASCIA & PERIMETER GFRC
	CAULK & INSPECT PRECAST GFRC PANELS GFRC - 1ST STREET		17-Feb-16				CAULK & INSPECT	PRECAST GFRC PANELS GFRC
GRAND HA	ALL (BUILDING LINES 19 - 25)	110	16-Nov-15	26-Apr-16				
PC-106800	INSTALL FRAMING & ATTACHMENTS - GRAND HALL	70	16-Nov-15	01-Mar-16			INSTALL FRAMING	& ATTACHMENTS - GRAND HA
PC-106900	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - GRAND HALL	15	09-Feb-16	01-Mar-16			■ ERECT, LINE & WE	LD FASCIA & PERIMETER GFRO
	ERECT, LINE & WELD FIELD - GRAND HALL	25	02-Mar-16	05-Apr-16	1		ERECT, LINE & \	WELD FIELD - GRAND HALL
PC-107000					_			

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	AlslD	ND	2014 2015 JFMAMJJASPNDJFMAMJJASPND	2016 IFMAMIIASDNC		2018 0.11FM A.M.II.I
PC-105200	INSTALL FRAMING & ATTACHMENTS - FREMONT	15	20-Nov-15	14-Dec-15					TACHMENTS - FREMONT	
PC-105300	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - FREMONT	15	15-Dec-15		-				FASCIA & PERIMETER GI	FRC - FREMONT
PC-105200 PC-105300 PC-105400 MUNI / OFF PC-106200 PC-106300 PC-106400 BUS DECK WEST (BUI PC-110200 PC-110900 PC-110900 PC-110800 PC-110500 PC-110500 PC-110500 PC-121400 PC-121500 PC-121500 PC-121600 PC-121000 CAULK & INSPECT PRECAST GFRC PANELS - FREMONT	5	08-Jan-16	14-Jan-16	_				ECAST GFRC PANELS - I		
MUNI / OFF	FICE (BUILDING LINES 27 - 33.2)	55	08-Mar-16	23-May-16						
PC-106200	INSTALL FRAMING & ATTACHMENTS - MUNI	35	08-Mar-16	25-Apr-16				INSTALL FRAM	ING & ATTACHMENTS - N	41 INII
PC-106300	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - MUNI	15	26-Apr-16	16-May-16	_				& WELD FASCIA & PERIN	
PC-106400	CAULK & INSPECT PRECAST GFRC PANELS - MUNI	5	17-May-16	-	_				PECT PRECAST GFRC P	
BUS DECK		246		13-Dec-16				• ONOLIN CHINE	LOTT REGRET CITYOT	NIVEES MISH
BUS DECK	ILDING LINES 1 - 10)		11-Jan-16	22-Jul-16						
PC-110200			11-Jan-16					INCTALL FRAMING 9	ATTACHMENTS PERIME	TED (STACE 1)
PC-110200	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 1) - BUS DECK WEST (PHASE 1 OF 2)			29-Jan-16 12-Feb-16	_					` ′
PC-121910	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 1) - BUS DECK WEST (PHASE 2 OF 2)	10	01-Feb-16 16-Feb-16	18-Mar-16	_				ATTACHMENTS PERIM	, ,
PC-110900 PC-110300	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 2) - BUS DECK WEST ERECT, LINE & WELD FASCIA & PERIMETER GFRC - BUS DECK WEST	24	21-Mar-16		_				© & ATTACHMENTS PERI WELD FASCIA & PERIME	,
PC-110800			21-Mar-16	21-Apr-16	_					
PC-110800	INSTALL FRAMING & ATTACHMENTS FIELD (STAGE 1) - BUS DECK WEST	24		21-Apr-16					ING & ATTACHMENTS FIL MING & ATTACHMENTS	<u> </u>
PC-110700	INSTALL FRAMING & ATTACHMENTS FIELD (STAGE 2) - BUS DECK WEST ERECT, LINE & WELD FIELD - BUS DECK WEST	24	22-Apr-16	25-May-16	_				NE & WELD FIELD - BUS I	,
PC-110400 PC-110500	CAULK & INSPECT PRECAST GFRC PANELS - BUS DECK WEST		26-May-16	_	_			,	INSPECT PRECAST GFR	
PC-110500		15 157	01-Jul-16 17-Dec-15	22-Jul-16 03-Aug-16				L CAULK &	INSPECT PRECAST GFR	C PANELS - BU
CENTRAL ((BUILDING LINES 10 - 20)							INIOTALL EDAMINIO	ATTACI MENTO DEDIME	(OTA OF 4)
PC-121400	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 1) - BUS DECK CENTRAL		17-Dec-15						ATTACHMENTS PERIME	
PC-121500	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 2) - BUS DECK CENTRAL	24	26-Jan-16	29-Feb-16	_				& ATTACHMENTS PERIN	,
PC-121000	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - BUS DECK CENTRAL	24	01-Mar-16	01-Apr-16	_				VELD FASCIA & PERIMET	
PC-121600	INSTALL FRAMING & ATTACHMENTS FIELD (STAGE 1) - BUS DECK CENTRAL	24	31-Mar-16	03-May-16	_				ING & ATTACHMENTS F	` '
PC-120900	INSTALL FRAMING & ATTACHMENTS FIELD (STAGE 2) - BUS DECK CENTRAL	24	04-May-16		_				AMING & ATTACHMENTS	,
PC-121100	ERECT, LINE & WELD FIELD - BUS DECK CENTRAL	24	09-Jun-16	13-Jul-16					INE & WELD FIELD - BUS	
PC-121200		15	14-Jul-16	03-Aug-16				CAULK	& INSPECT PRECAST GF	RC PANELS - B
EAST (BUIL	LDING LINES 20 - 33.5)		31-May-16					—		
PC-120700	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 1) - BUS DECK EAST	24	31-May-16		_				RAMING & ATTACHMENT	
PC-121610	INSTALL FRAMING & ATTACHMENTS PERIMETER (STAGE 2) - BUS DECK EAST	24	05-Jul-16	05-Aug-16	_				FRAMING & ATTACHME	
PC-120300	ERECT, LINE & WELD FASCIA & PERIMETER GFRC - BUS DECK EAST	24	08-Aug-16	12-Sep-16					T, LINE & WELD FASCIA	
	, ,		08-Aug-16						ALL FRAMING & ATTACHI	,
PC-120200	INSTALL FRAMING & ATTACHMENTS FIELD (STAGE 2)- BUS DECK EAST		13-Sep-16	_	_				TALL FRAMING & ATTAC	
PC-120400	·	24	18-Oct-16	18-Nov-16	_				RECT, LINE & WELD FIE CAULK & INSPECT PRE	
	CAULK & INSPECT PRECAST GFRC PANELS - BUS DECK EAST		21-Nov-16 27-Apr-16	13-Dec-16 23-Nov-16	_			_	CAULK & INSPECT PRE	GAST GFRC PA
	ALL / STORE FRONT ST (LVL G-2 BUILDING LINES 1.4 - 8.5)		11-Jul-16	23-Nov-16						
CW-100000	(START) EXTERIOR CURTAIN WALL - RETAIL WEST	0	11-Jul-16					♦ (START) F	XTERIOR CURTAIN WAL	I - RETAIL WES
CW-100000	STRIP IN WATERPROOFING - RETAIL WEST	10	11-Jul-16	22-Jul-16	_			,	WATERPROOFING - RET	
CW-100100	LAYOUT & ATTACHMENTS - RETAIL WEST	25	25-Jul-16	26-Aug-16	_				JT & ATTACHMENTS - RE	
CW-100400	INSTALL SILL CANS & FLASHINGS - RETAIL WEST	10	29-Aug-16	13-Sep-16	_				ALL SILL CANS & FLASHI	
CW-100300	INSTALL COLUMN COVERS - RETAIL WEST		29-Aug-16					_	ALL COLUMN COVERS - I	
CW-100500	INSTALL FRAMING SYSTEM - RETAIL WEST	20	14-Sep-16	12-Oct-16	-				TALL FRAMING SYSTEM	
CW-100600	INSTALL GLAZING - RETAIL WEST	30	21-Sep-16	02-Nov-16	-				STALL GLAZING - RETAI	
CW-100700	INSTALL LOUVERS - RETAIL WEST	5	27-Oct-16	02-Nov-16	-				STALL LOUVERS - RETA	
CW-100800	COMPLETE GASKETS / CAULKING & INSPECTIONS - RETAIL WEST	15	03-Nov-16		-				COMPLETE GASKETS / C	
	ST (LVL G-2 BUILDING LINES 8.5 - 17)		11-Jul-16	09-Nov-16						
CW-101000	(START) EXTERIOR CURTAIN WALL - RETAIL EAST		11-Jul-16	00 110 10				<u> </u>	XTERIOR CURTAIN WAL	I - RETAIL EAS
GVV-101000	(OTAKT) EXTERIOR CONTAIN WALL - RETAIL EAST	0	1 1-Jul-10					▼ (START)	ATENIOR CORTAIN WAL	4 - KETAIL EAS

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

		1 01011 2211								JOINT VENTU	100000000000000000000000000000000000000
Activity ID	Activity Name	00	Start	Finish	120	MD	2014	2015	2016	2017	2018
CW-101100	STRIP IN WATERPROOFING - RETAIL EAST	10	11-Jul-16	22-Jul-16	ASS	MP				WATERPROOFING - RE	
CW-101200	LAYOUT & ATTACHMENTS - RETAIL EAST		25-Jul-16	26-Aug-16	_					T & ATTACHMENTS - R	
CW-101400	INSTALL SILL CANS & FLASHINGS - RETAIL EAST	10			_					ALL SILL CANS & FLASH	
CW-101300	INSTALL COLUMN COVERS - RETAIL EAST	10								ALL COLUMN COVERS -	
■ CW-101500	INSTALL FRAMING SYSTEM - RETAIL EAST	20		· ·	_					TALL FRAMING SYSTEM	
CW-101600	INSTALL GLAZING - RETAIL EAST	30		02-Nov-16	_					STALL GLAZING - RETA	
CW-101700	INSTALL LOUVERS - RETAIL EAST	5	27-Oct-16	02-Nov-16	_					STALL LOUVERS - RETA	
CW-101800	COMPLETE GASKETS / CAULKING & INSPECTIONS - RETAIL EAST	5		09-Nov-16	_					OMPLETE GASKETS / C	
	/ATOR TOWER WEST	55		20-Jul-16						OWN EETE GROKETO'	, to Ettino a inte
CW-104000	(START) EXTERIOR CURTAIN WALL - STAIR/ELEV TOWER W	0	02-May-16	20 001 10					♠ (START) EYTE	RIOR CURTAIN WALL - S	STAIR/ELEV/ TO
CW-104100	STRIP IN WATERPROOFING - STAIR/ELEV TOWER W	5		06-May-16					, , ,	ERPROOFING - STAIR/E	
CW-104200	LAYOUT, FRAMING & ATTACHMENTS - STAIR/ELEV TOWER W	10		20-May-16	_					AMING & ATTACHMENTS	
CW-104300	INSTALL COLUMN COVERS - STAIR/ELEV TOWER W	10	23-May-16		_				-	UMN COVERS - STAIR/	
CW-104400	INSTALL SILL CANS & FLASHINGS - STAIR/ELEV TOWER W	5	23-May-16			_				L CANS & FLASHINGS -	
CW-104500	INSTALL FRAMING SYSTEM - STAIR/ELEV TOWER W	10		14-Jun-16	_					RAMING SYSTEM - STAIF	
CW-104600	INSTALL GLAZING - STAIR/ELEV TOWER W	10	08-Jun-16	28-Jun-16	_					LAZING - STAIR/ELEV T	
CW-104700	INSTALL LOUVERS - STAIR/ELEV TOWER W	3	24-Jun-16	28-Jun-16	_					OUVERS - STAIR/ELEV	
CW-104800	COMPLETE GASKETS / CAULKING & INSPECTIONS - STAIR/ELEV TOWER W	15		20-Jul-16	_					TE GASKETS / CAULKIN	
	LL W3 (BUILDING LINES 19 - 25)		27-Apr-16	04-Oct-16					- COMI EE	TE GRORETO / GROERIN	0 4 11 401 20110
CW-102000	(START) EXTERIOR CURTAIN WALL - GRAND HALL		27-Apr-16	0.00.10					♦ (START) EXTE	RIOR CURTAIN WALL - G	SRAND HALL
CW-102100	STRIP IN WATERPROOFING - GRAND HALL		27-Apr-16	10-May-16	_				, , ,	ERPROOFING - GRAND	
CW-102200	LAYOUT & ATTACHMENTS - GRAND HALL	25			_					ATTACHMENTS - GRANI	
■ CW-102400	INSTALL SILL CANS & FLASHINGS - GRAND HALL	10	17-Jun-16	30-Jun-16	_					ILL CANS & FLASHINGS	
CW-102300	INSTALL COLUMN COVERS - GRAND HALL	25		22-Jul-16						COLUMN COVERS - GR	
CW-102500	INSTALL FRAMING SYSTEM - GRAND HALL	20		19-Aug-16	_					L FRAMING SYSTEM - (
■ CW-102600	INSTALL GLAZING - GRAND HALL	30		13-Sep-16						ALL GLAZING - GRAND I	
■ CW-102700	INSTALL LOUVERS - GRAND HALL	5	07-Sep-16							ALL LOUVERS - GRAND	
■ CW-102800	COMPLETE GASKETS / CAULKING & INSPECTIONS - GRAND HALL	15								MPLETE GASKETS / CAU	
	CE (LVL G-2 BUILDING LINES 27 - 33.2)		11-Jul-16	09-Nov-16							
	(START) EXTERIOR CURTAIN WALL - MUNI STATION	0							♦ (START) F	XTERIOR CURTAIN WA	II - MUNI STAT
■ CW-103100	STRIP IN WATERPROOFING - MUNI STATION		11-Jul-16	22-Jul-16					, ,	WATERPROOFING - MU	
CW-103200	LAYOUT & ATTACHMENTS - MUNI STATION		25-Jul-16	05-Aug-16						& ATTACHMENTS - MU	
CW-103400	INSTALL SILL CANS & FLASHINGS - MUNI STATION	5		12-Aug-16						L SILL CANS & FLASHIN	
CW-103300	INSTALL COLUMN COVERS - MUNI STATION	30				-+				ALL COLUMN COVERS	
CW-103500	INSTALL FRAMING SYSTEM - MUNI STATION		21-Sep-16							TALL FRAMING SYSTEM	
■ CW-103600	INSTALL GLAZING - MUNI STATION		28-Sep-16							STALL GLAZING - MUNI S	
CW-103700	INSTALL LOUVERS - MUNI STATION(10)		28-Sep-16						■ IN:	 \$TALL LOUVERS - MUNI	STATION(10)
CW-103800	COMPLETE GASKETS / CAULKING & INSPECTIONS - MUNI STATION		20-Oct-16	09-Nov-16					■ C	OMPLETE GASKETS / C	AULKING & INS
AWNING W1			03-Nov-15	03-Feb-17							
	ING W1 (LINES 1-10)	187	23-Nov-15	23-Aug-16							
	NING NORTH W1 (LINES 1-10)			23-Aug-16							
	INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 1 TO 10 NORTH	30		08-Jan-16					INSTALL PRIMARY CO	NNECTIONS (STRUT) &	WEI DING - 1 To
	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 1 TO 10 NORTH (PHASE 1 OF 3)	5	22-Apr-16	28-Apr-16	-			_		NDARY FRAMING, WEL	
	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 1 TO 10 NORTH (PHASE 2 OF 3)	5	29-Apr-16	05-May-16		-+				ONDARY FRAMING, WEL	
	ELECTRICAL ROUGH-IN - 1 TO 10 NORTH (PHASE 1 OF 2)		29-Apr-16	19-May-16	_					ROUGH-IN - 1 TO 10 NO	
	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 1 TO 10 NORTH (PHASE 3 OF 3)		06-May-16		_					CONDARY FRAMING, W	,
AVV-10/520	INSTALL SECONDART I MAINING, WELDING & TOUCH UP - 1 TO TO NORTH (FRASE 3 OF 3)	20	00-iviay-16	00-3011-10					INSTALL SE	CONDAINT FRAMING, W	L4DING & 1000

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30





Activity ID	Activity Name	OD	Start	Finish	}		2014 2015	2016	2017	2018
					_AS	N		JFMAMJJASDND		JFMAMJJ
AW-107530	ELECTRICAL ROUGH-IN - 1 TO 10 NORTH (PHASE 2 OF 2)	5	07-Jun-16	13-Jun-16		Г		I ELECTRICA	L ROUGH-IN - 1 TO 10 NO	ORTH (PHASE 2
AW-102600	INSTALL GLAZING - 1 TO 10 NORTH (PHASE 1 OF 2)	20	28-Jun-16	26-Jul-16				INSTALL	GLAZING - 1 TO 10 NORT	TH (PHASE 1 OF
AW-107540	INSTALL GLAZING - 1 TO 10 NORTH (PHASE 2 OF 2)	10	27-Jul-16	09-Aug-16				INSTAL	GLAZING - 1 TO 10 NOR	TH (PHASE 2 O
AW-102200	ELECTRICAL TRIM - 1 TO 10 NORTH	10	10-Aug-16	23-Aug-16				ELECT	RICAL TRIM - 1 TO 10 NO	RTH
AW-107530 AW-102600 AW-107540 AW-102200 AW-105910 WEST AWN AW-103400 AW-103500 AW-103600 AW-107550 AW-107570 AW-107570 AW-107560 AW-103800 AW-103900 CENTRAL A CENTRAL A CENTRAL A AW-107590 AW-107620 AW-107600 AW-107600 AW-107610 AW-103000 CENTRAL A AW-107610 AW-103000 AW-104300 AW-104300 AW-104500	(FINISH) OUTER CANOPY WALL - 1 TO 10 NORTH	0		23-Aug-16				♦ (FINISH	i) OUTER CANOPY WALL	1 TO 10 NOR1
4 WEST AWN	ING SOUTH W1 (LINES 1-10)	187	23-Nov-15	23-Aug-16						
AW-103400	INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 1 TO 10 SOUTH	30	23-Nov-15	08-Jan-16				INSTALL PRIMARY CO	NNECTIONS (STRUT) & V	VELDING - 1 TO
AW-103500	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 1 TO 10 SOUTH (PHASE 1 OF 3)	5	07-Jun-16	13-Jun-16				I INSTALL SE	CONDARY FRAMING, WE	LDING & TOUC
AW-107550	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 1 TO 10 SOUTH (PHASE 2 OF 3)	5	14-Jun-16	20-Jun-16				I INSTALL SE	CONDARY FRAMING, W	ELDING & TOUC
AW-103600	ELECTRICAL ROUGH-IN - 1 TO 10 SOUTH (PHASE 1 OF 2)	15	14-Jun-16	05-Jul-16				ELECTRIC	AL ROUGH-IN - 1 TO 10 S	OUTH (PHASE
AW-107580	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 1 TO 10 SOUTH (PHASE 3 OF 3)	20	21-Jun-16	19-Jul-16				INSTALL	SECONDARY FRAMING, V	WELDING & TOU
AW-103700	INSTALL GLAZING - 1 TO 10 SOUTH (PHASE 1 OF 2)	20	28-Jun-16	26-Jul-16				INSTALL	GLAZING - 1 TO 10 SOUT	TH (PHASE 1 OF
AW-107570	ELECTRICAL ROUGH-IN - 1 TO 10 SOUTH (PHASE 2 OF 2)	5	20-Jul-16	26-Jul-16				I ELECTR	CAL ROUGH-IN - 1 TO 10	SOUTH (PHASE
AW-107560	INSTALL GLAZING - 1 TO 10 SOUTH (PHASE 2 OF 2)	10	27-Jul-16	09-Aug-16				INSTAL	GLAZING - 1 TO 10 SOU	TH (PHASE 2 O
AW-103800	ELECTRICAL TRIM - 1 TO 10 SOUTH	10	10-Aug-16	23-Aug-16				ELECT	RICAL TRIM - 1 TO 10 SO	ψтн
AW-103900	(FINISH) OUTER CANOPY WALL - 1 TO 10 SOUTH	0		23-Aug-16				♦ (FINISH) OUTER CANOPY WALL	1 TO 10 SOUT
CENTRAL A	WNING W1 (GRID LINES 10-20)	231	03-Nov-15	06-Oct-16						
CENTRAL A	AWNING NORTH W1 (LINES 10-20)	231	03-Nov-15	06-Oct-16						
AW-100700	INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 10 TO 20 NORTH	30	03-Nov-15	16-Dec-15				INSTALL PRIMARY CON	NECTIONS (STRUT) & WE	LDING - 10 TO
AW-102400	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 10 TO 20 NORTH (PHASE 1 OF 3)	5	04-Apr-16	08-Apr-16				I INSTALL SECON	DARY FRAMING, WELDIN	NG & TOUCH UP
AW-107590	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 10 TO 20 NORTH (PHASE 2 OF 3)	5	11-Apr-16	15-Apr-16				I INSTALL SECON	DARY FRAMING, WELDI	NG & TOUCH UF
AW-104000	ELECTRICAL ROUGH-IN - 10 TO 20 NORTH (PHASE 1 OF 2)	15	11-Apr-16	29-Apr-16				■ ELECTRICAL R	OUGH-IN - 10 TO 20 NOR	TH (PHASE 1 O
AW-107620	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 10 TO 20 NORTH (PHASE 3 OF 3)	10	18-Apr-16	29-Apr-16				INSTALL SECC	NDARY FRAMING, WELD	ING & TOUCH U
AW-107600	ELECTRICAL ROUGH-IN - 10 TO 20 NORTH (PHASE 2 OF 2)	5	02-May-16	06-May-16				I ELECTRICAL F	OUGH-IN - 10 TO 20 NOF	TH (PHASE 2 O
AW-102700	INSTALL GLAZING - 10 TO 20 NORTH (PHASE 1 OF 2)	10	24-Aug-16	08-Sep-16				■ INSTA	LL GLAZING - 10 TO 20 N	ORTH (PHASE
AW-107610	INSTALL GLAZING - 10 TO 20 NORTH (PHASE 2 OF 2)	10	09-Sep-16	22-Sep-16				INST	ALL GLAZING - 10 TO 20	NORTH (PHASE
AW-104100	ELECTRICAL TRIM - 10 TO 20 NORTH	10	23-Sep-16	06-Oct-16				C ELE	CTRICAL TRIM - 10 TO 20	NORTH
AW-103000	(FINISH) OUTER CANOPY WALL - 10 TO 20 NORTH	0		06-Oct-16				♦ (FIN	ISH) OUTER CANOPY WA	ALL - 10 TO 20 N
CENTRAL A	AWNING SOUTH W1 (LINES 10-20)	191	03-Nov-15	09-Aug-16						
AW-104300	INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 10 TO 20 SOUTH	30	03-Nov-15	16-Dec-15				INSTALL PRIMARY CON	NECTIONS (STRUT) & WE	LDING - 10 TO
AW-104500	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 10 TO 20 SOUTH (PHASE 1 OF 3)	5	04-Apr-16	08-Apr-16				I INSTALL SECON	DARY FRAMING, WELDIN	NG & TOUCH UP
AW-107630	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 10 TO 20 SOUTH (PHASE 2 OF 3)	5	11-Apr-16	15-Apr-16				I INSTALL SECO	DARY FRAMING, WELDI	NG & TOUCH UF
AW-104600	ELECTRICAL ROUGH-IN - 10 TO 20 SOUTH (PHASE 1 OF 2)	15	11-Apr-16	29-Apr-16				■ ELECTRICAL R	OUGH-IN - 10 TO 20 SOU	TH (PHASE 1 O
AW-107660	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 10 TO 20 SOUTH (PHASE 3 OF 3)	10	18-Apr-16	29-Apr-16				INSTALL SECO	NDARY FRAMING, WELD	ING & TOUCH U
AW-107640	ELECTRICAL ROUGH-IN - 10 TO 20 SOUTH (PHASE 2 OF 2)	5	02-May-16	06-May-16				I ELECTRICAL F	OUGH-IN - 10 TO 20 SOL	JTH (PHASE 2 O
AW-104700	INSTALL GLAZING - 10 TO 20 SOUTH (PHASE 1 OF 2)	10	28-Jun-16	12-Jul-16				■ INSTALL (LAZING - 10 TO 20 SOU	TH (PHASE 1 OF
AW-107650	INSTALL GLAZING - 10 TO 20 SOUTH (PHASE 2 OF 2)	10	13-Jul-16	26-Jul-16				INSTALL	GLAZING - 10 TO 20 SOL	JTH (PHASE 2 O
AW-104800	ELECTRICAL TRIM - 10 TO 20 SOUTH	10	27-Jul-16	09-Aug-16				ELECTF	ICAL TRIM - 10 TO 20 SO	ψтн
AW-104900	(FINISH) OUTER CANOPY WALL - 10 TO 20 SOUTH	0		09-Aug-16				♦ (FINISH	OUTER CANOPY WALL	- 10 TO 20 SOU
AW-107630 AW-104600 AW-107660 AW-107640 AW-104700 AW-104700 AW-104800 AW-104900 GRAND HAL GRAND HAL AW-101300 AW-102500 AW-107670 AW-105000 AW-107700	L AWNING W1 (GRID LINES 20-25)	233	28-Jan-16	03-Jan-17						
GRAND HA	LL AWNING NORTH W1 (LINES 20-25)	233	28-Jan-16	03-Jan-17						
AW-101300	INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 20 TO 25 NORTH	20	28-Jan-16	25-Feb-16				■ INSTALL PRIMARY	CONNECTIONS (STRUT)	& WELDING - 20
■ AW-102500	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 20 TO 25 NORTH (PHASE 1 OF 3)	5	13-Sep-16	19-Sep-16		t		I INST	ALL SECONDARY FRAMI	NG, WELDING &
AW-107670	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 20 TO 25 NORTH (PHASE 2 OF 3)	5	20-Sep-16	26-Sep-16				I INST	ALL SECONDARY FRAMI	NG, WELDING &
AW-105000	ELECTRICAL ROUGH-IN - 20 TO 25 NORTH (PHASE 1 OF 2)	15		11-Oct-16				■ ELE	CTRICAL ROUGH-IN - 20	TO 25 NORTH
AW-107700	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 20 TO 25 NORTH (PHASE 3 OF 3)	10	27-Sep-16	11-Oct-16				I INS	TALL SECONDARY FRAM	ING, WELDING
Laurente Freihilbite I	:				_				ı	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30

TG18.1 EXHIBIT I SCHEDULE



				-	1			JOINT VENTURE
Activity ID		Activity Name	OD	Start	Finish	ASO	N D	2014 2015 2016 2017 2018
A	AW-107680	ELECTRICAL ROUGH-IN - 20 TO 25 NORTH (PHASE 2 OF 2)	5	12-Oct-16	18-Oct-16	1,12		ELECTRICAL ROUGH-IN - 20 TO 25 NORTH
A		INSTALL GLAZING - 20 TO 25 NORTH (PHASE 1 OF 2)	10	17-Nov-16	02-Dec-16			■ INSTALL GLAZING - 20 TQ 25 NORTH (PI
A		INSTALL GLAZING - 20 TO 25 NORTH (PHASE 2 OF 2)	10	05-Dec-16	16-Dec-16	-		■ INSTALL GLAZING - 20 TO 25 NORTH (F
A		ELECTRICAL TRIM - 20 TO 25 NORTH	10	19-Dec-16	03-Jan-17	_		■ ELECTRICAL TRIM - 20 TO 25 NORTH
		(FINISH) OUTER CANOPY WALL - 20 TO 25 NORTH	0	.0 200 .0	03-Jan-17			♦ (FINISH) OUTER CANOPY WALL - 20 T
₽ GI		LL AWNING SOUTH W1 (LINES 20-25)	233	28-Jan-16	03-Jan-17			
A		INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 20 TO 25 SOUTH	20	28-Jan-16	25-Feb-16			■ INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 20
		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 20 TO 25 SOUTH (PHASE 1 OF 3)	5	13-Sep-16	19-Sep-16			INSTALL SECONDARY FRAMING, WELDING &
		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 20 TO 25 SOUTH (PHASE 2 OF 3)	5	20-Sep-16	26-Sep-16			I INSTALL SECONDARY FRAMING, WELDING &
		ELECTRICAL ROUGH-IN - 20 TO 25 SOUTH (PHASE 1 OF 2)	15	20-Sep-16	11-Oct-16			■ ELECTRICAL ROUGH-IN - 20 TO 25 SOUTH (
		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 20 TO 25 SOUTH (PHASE 3 OF 3)	10	27-Sep-16	11-Oct-16			■ INSTALL SECONDARY FRAMING, WELDING
		ELECTRICAL ROUGH-IN - 20 TO 25 SOUTH (PHASE 2 OF 2)	5	12-Oct-16	18-Oct-16			■ ELECTRICAL ROUGH-IN - 20 TO 25 SOUTH
		INSTALL GLAZING - 20 TO 25 SOUTH (PHASE 1 OF 2)	10	17-Nov-16	02-Dec-16	_		■ INSTALL GLAZING - 20 TQ 25 SOUTH (PH
		INSTALL GLAZING - 20 TO 25 SOUTH (PHASE 2 OF 2)	10	05-Dec-16	16-Dec-16			INSTALL GLAZING - 20 TO 25 SOUTH (F
		ELECTRICAL TRIM - 20 TO 25 SOUTH	10	19-Dec-16	03-Jan-17	_		ELECTRICAL TRIM - 20 TO 25 SOUTH
		(FINISH) OUTER CANOPY WALL - 20 TO 25 SOUTH	0	10 200 10	03-Jan-17	_		♦ (FINISH) OUTER CANOPY WALL - 20 T
E FA		NG W1 (LINES 25 - 32)		29-Apr-16	10-Jan-17			V (FINISH) GOTEN GARGET WILL 20 T
		ING NORTH W1 (LINES 25 - 32)		29-Apr-16	10-Jan-17			
A		INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 25 TO 32 NORTH	20	29-Apr-16	26-May-16			■ INSTALL PRIMARY CONNECTIONS (STRUT) & WELDIN
		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 25 TO 32 NORTH (PHASE 1 OF 3)	5	13-Sep-16	19-Sep-16			INSTALL SECONDARY FRAMING, WELDING 8
A	AW-107750	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 25 TO 32 NORTH (PHASE 2 OF 3)	5	20-Sep-16	26-Sep-16			I INSTALL SECONDARY FRAMING, WELDING &
		ELECTRICAL ROUGH-IN - 25 TO 32 NORTH (PHASE 1 OF 2)	15	20-Sep-16	11-Oct-16			■ ELECTRICAL ROUGH-IN - 25 TO 32 NORTH (
	AW-107780	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 25 TO 32 NORTH (PHASE 3 OF 3)	10	27-Sep-16	11-Oct-16			INSTALL SECONDARY FRAMING, WELDING
		ELECTRICAL ROUGH-IN - 25 TO 32 NORTH (PHASE 2 OF 2)	5	12-Oct-16	18-Oct-16			■ ELECTRICAL ROUGH-IN - 25 TO 32 NORTH
	AW-106500	INSTALL GLAZING - 25 TO 32 NORTH (PHASE 1 OF 2)	10	17-Nov-16	02-Dec-16	_		INSTALL GLAZING - 25 TQ 32 NORTH (PI
		INSTALL GLAZING - 25 TO 32 NORTH (PHASE 2 OF 2)	10	05-Dec-16	16-Dec-16	_		INSTALL GLAZING - 25 TO 32 NORTH (F
		ELECTRICAL TRIM - 25 TO 32 NORTH(5)	15	19-Dec-16	10-Jan-17			■ ELECTRICAL TRIM - 25 TO 32 NORTH
		(FINISH) OUTER CANOPY WALL - 25 TO 32 NORTH	0	.0 200 .0	10-Jan-17	_		♦ (FINISH) OUTER CANOPY WALL - 25 T
FL E		ING SOUTH W1 (LINES 25 - 32)	173	29-Apr-16	10-Jan-17			
A		INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - 25 TO 32 SOUTH			26-May-16			■ INSTALL PRIMARY CONNECTIONS (STRUT) & WELDIN
		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 25 TO 32 SOUTH (PHASE 1 OF 3)		13-Sep-16	-			INSTALL SECONDARY FRAMING, WELDING 8
		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 25 TO 32 SOUTH (PHASE 2 OF 3)	5		26-Sep-16			I INSTALL SECONDARY FRAMING, WELDING &
A		ELECTRICAL ROUGH-IN - 25 TO 32 SOUTH (PHASE 1 OF 2)	20	20-Sep-16	18-Oct-16			■ ELECTRICAL ROUGH-IN - 25 TO 32 SOUTH
A		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - 25 TO 32 SOUTH (PHASE 3 OF 3)	10	27-Sep-16	11-Oct-16			■ INSTALL SECONDARY FRAMING, WELDING
		ELECTRICAL ROUGH-IN - 25 TO 32 SOUTH (PHASE 2 OF 2)	5	19-Oct-16	25-Oct-16			■ ELECTRICAL ROUGH-IN - 25 TO 32 SOUTH
A		INSTALL GLAZING - 25 TO 32 SOUTH (PHASE 1 OF 2)	10	17-Nov-16	02-Dec-16			■ INSTALL GLAZING - 25 TQ 32 SOUTH (PH
A		INSTALL GLAZING - 25 TO 32 SOUTH (PHASE 2 OF 2)	10	05-Dec-16	16-Dec-16			INSTALL GLAZING - 25 TO 32 SOUTH (P
A		ELECTRICAL TRIM - 25 TO 32 SOUTH(5)	15	19-Dec-16	10-Jan-17			■ ELECTRICAL TRIM - 25 TO 32 SOUTH
A		(FINISH) OUTER CANOPY WALL - 25 TO 32 SOUTH	0		10-Jan-17			♦ (FINISH) OUTER CANOPY WALL - 25 T
□ EA		INE 34 W1 (LINES A - J)	170	31-May-16				
		LINE 34 W1 (LINES A-J)	170	31-May-16	03-Feb-17			
X		INSTALL PRIMARY CONNECTIONS (STRUT) & WELDING - EAST END	15	31-May-16	20-Jun-16			■ INSTALL PRIMARY CONNECTIONS (\$TRUT) & WELL
X		INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - EAST END (PHASE 1 OF 3)	5	14-Dec-16				I INSTALL SECONDARY FRAMING, WELL
X	XS-111920	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - EAST END (PHASE 2 OF 3)	5	21-Dec-16	28-Dec-16			INSTALL SECONDARY FRAMING, WEL
	XS-108000	ELECTRICAL ROUGH-IN - EAST END (PHASE 1 OF 2)	10	21-Dec-16	05-Jan-17			■ ELECTRICAL ROUGH-IN - EAST END (
X		INSTALL GLAZING - EAST END (PHASE 1 OF 2)	5	29-Dec-16				INSTALL GLAZING - EAST END (PHAS

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30





Activity ID	Activity Nome	00	Ctort	Einiah		—	2014	2015	2016	2017	
ACTIVITY ID	Activity Name	OD	Start	Finish	ASO	ND	2014 JFMAMJJASON	2015 DJFMAMJJASON	2016 		2018 DJFMAMJJ
XS-111950	INSTALL SECONDARY FRAMING, WELDING & TOUCH UP - EAST END (PHASE 3 OF 3)	5	29-Dec-16	05-Jan-17				 	 	I INSTALL SECONDARY	
XS-111930	ELECTRICAL ROUGH-IN - EAST END (PHASE 2 OF 2)	5	06-Jan-17	12-Jan-17						■ ELECTRICAL ROUGH	-IN - EAST END (
XS-111940	INSTALL GLAZING - EAST END (PHASE 2 OF 2)	10	06-Jan-17	20-Jan-17						■ INSTALL GLAZING - E	EAST END (PHAS
XS-108200	ELECTRICAL TRIM - EAST END	10	23-Jan-17	03-Feb-17	_					■ ELECTRICAL TRIM -	,
XS-108110	(FINISH) OUTER CANOPY WALL - EAST END	0		03-Feb-17						♦ (FINISH) OUTER CAI	
SKYLIGHTS	AND GLASS FLOOR	312	17-Nov-15			\dashv				((
		135									
LIGHT COL		25	17-Jan-17								
XS-110000	(START) FINISHES - LIGHT COLUMN GH	0	17-Jan-17							♦ (START) FINISHES - L	IGHT COLUMN
XS-111000	FRAME GLASS BOX - LIGHT COLUMN GH	10	17-Jan-17	30-Jan-17	_					■ FRAME GLASS BOX	
XS-111000 XS-111100	GLAZE GLASS BOX - LIGHT COLUMN GH	5	31-Jan-17	06-Feb-17	_	-				GLAZE GLASS BOX	
XS-111100 XS-111200		5	07-Feb-17	13-Feb-17	_						1
XS-111200	SEALANTS GLASS BOX - LIGHT COLUMN GH				_					SEALANTS GLASS TOUCH UP PAINT	
XS-111300	TOUCH UP PAINT - LIGHT COLUMN GH	5	14-Feb-17	21-Feb-17	_						
XS-110001	(FINISH) FINISHES - LIGHT COLUMN GH	0		21-Feb-17						♦ (FINISH) FINISHES	- LIGHT COLUM
LIGHT COL	_	25		21-Feb-17							
XS-111400	(START) FINISHES - LIGHT COLUMN BD	0	17-Jan-17							♦ (START) FINISHES - L	
XS-111500	FRAME GLASS WALL - LIGHT COLUMN BD	10	17-Jan-17	30-Jan-17						FRAME GLASS WAL	L LIGHT COLUI
XS-111600	GLAZE GLASS WALL - LIGHT COLUMN BD	5	31-Jan-17	06-Feb-17						GLAZE GLASS WALI	L - LIGHT COLUI
XS-111700	SEALANTS GLASS WALL - LIGHT COLUMN BD	5	07-Feb-17	13-Feb-17						I SEALANTS GLASS	WALL - LIGHT C
XS-111800	TOUCH UP PAINT - LIGHT COLUMN BD	5	14-Feb-17	21-Feb-17						TOUCH UP PAINT -	LIGHT COLUMN
XS-111900	(FINISH) FINISHES - LIGHT COLUMN BD	0		21-Feb-17						♦ (FINISH) FINISHES	- LIGHT COLUM
LIGHT COL	LUMN - SKYLIGHT W10	110	04-Aug-16	13-Jan-17							
XS-110050	(START) SKYLIGHT - LIGHT COLUMN	0	04-Aug-16						♦ (START	SKYLIGHT - LIGHT COLU	JMN
XS-110100	TEMP WORK DECK - LIGHT COLUMN	5	04-Aug-16	10-Aug-16					I TEMP	ORK DECK - LIGHT COL	UMN
XS-110200	FLASHINGS AND WP - LIGHT COLUMN	10	11-Aug-16	24-Aug-16					■ FLASH	INGS AND WP - LIGHT CO	OLUMN
XS-110300	LAYOUT - LIGHT COLUMN	10	25-Aug-16	09-Sep-16					■ LAYO	UT - LIGHT COLUMN	
XS-110400	FRAME SKYLIGHT - LIGHT COLUMN	50	12-Sep-16	21-Nov-16						FRAME SKYLIGHT - LIGH	TCOLUMN
XS-110500	GLAZING - LIGHT COLUMN	25	01-Nov-16	07-Dec-16						GLAZING - LIGHT COLUI	MN
XS-110600	SEALANTS - LIGHT COLUMN	10	08-Dec-16	21-Dec-16					ı	SEALANTS - LIGHT COI	LUMN
XS-110900	PRIME AND PAINT FIRST COAT - LIGHT COLUMN	15	22-Dec-16	13-Jan-17						PRIME AND PAINT FIF	RST COAT - LIGH
XS-110700	(FINISH) SKYLIGHT FOR LIGHT COLUMN	0		13-Jan-17						♦ (FINISH) SKYLIGHT F	OR LIGHT COLU
SKYLIGHT (14-Jul-16	_							
XS-100900	(START) SKYLIGHT @ 11 LINE	0	14-Jul-16						♦ (START)	SKYLIGHT @ 11 LINE	
XS-101000	TEMP WORK DECK - SL @ 11 LINE	5	14-Jul-16	20-Jul-16						 ΦRK DECK - SL @ 11 LINI	E
XS-101100	FLASHINGS AND WP - SL @ 11 LINE	10	21-Jul-16	03-Aug-16					☐ FLASHI	NGS AND WP - SL @ 11 L	INE
XS-101200	LAYOUT - SL @ 11 LINE			17-Aug-16		\dashv				JT - SL @ 11 LINE	+
XS-101700	FRAME SKYLIGHT - SL @ 11 LINE									ME SKYLIGHT - SL @ 11 L	-INE
XS-101800	GLAZING - SL @ 11 LINE	15		07-Oct-16						AZING - SL @ 11 LINE	
XS-102300	SEALANTS - SL @ 11 LINE	10	11-Oct-16	24-Oct-16						EALANTS - SL @ 11 LINE	
XS-111910	(FINISH) SKYLIGHT @ 11 LINE	0	55. 15	24-Oct-16						INISH) SKYLIGHT @ 11 LI	NE
SKYLIGHT (23-Sep-16			\dashv			↓ (i		
XS-108400	(START) SKYLIGHT @ 28 LINE	0	23-Sep-16						△ (QT.	 ART) SKYLIGHT @ 28 LINE	<u>-</u>
XS-108400 XS-108500	TEMP WORK DECK - SL @ 28 LINE		23-Sep-16	20-San 16	-				,	MP WORK DECK - SL @ 28	1
XS-108500 XS-108600	FLASHINGS AND WP - SL @ 28 LINE		30-Sep-16		- 1					ASHINGS AND WP - SL @	1
			17-Oct-16	28-Oct-16	_ [ASHINGS AND WP - SL @ AYOUT - SL @ 28 LINE	ZO LIINE
XS-108700	LAYOUT - SL @ 28 LINE			_	+	\rightarrow					0 20 1 1/15
XS-108800	FRAME SKYLIGHT - SL @ 28 LINE	20	31-Oct-16	29-Nov-16						FRAME SKYLIGHT - SL @	ZÖ LINE
Lavout: Exhibit I									Hoor	iramiroz	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TG18.1 EXHIBIT I SCHEDULE



	1		-	1		JOINT VENTURE
ty ID	Activity Name	OD	Start	Finish	AISIO	2014 2015 2016 2017
XS-108900	GLAZING - SL @ 28 LINE	15	30-Nov-16	20-Dec-16		GLAZING - SL @ 28 LINE
XS-109000	SEALANTS - SL @ 28 LINE	10	21-Dec-16	05-Jan-17		SEALANTS - SL @ 28 LINE
XS-109100	(FINISH) SKYLIGHT @ 28 LINE	0		05-Jan-17		♦ (FINISH) SKYLIGHT @ 28 LI
GLASS FLC	OOR W12	75	04-Aug-16	21-Nov-16		
XS-109200	(START) GLASS FLOOR	0	04-Aug-16			♦ (START) GLASS FLOOR
XS-109300	TEMP WORK DECK - GLASS FLOOR	5	04-Aug-16	10-Aug-16		■ TEMP WORK DECK - GLASS FLOOR
XS-109400	FLASHINGS AND WP - GLASS FLOOR	15	11-Aug-16	31-Aug-16		☐ FLASHINGS AND WP - GLASS FLOO
XS-109500	LAYOUT - GLASS FLOOR	10	01-Sep-16	16-Sep-16		■ LAYOUT - GLASS FLOOR
XS-109600	FRAME & TRUSSES - GLASS FLOOR	20	19-Sep-16	17-Oct-16		■ FRAME & TRUSSES - GLASS FLO
XS-109700	GLAZING - GLASS FLOOR	15	18-Oct-16	07-Nov-16		☐ GLAZING - GLASS FLOOR
XS-109800	SEALANTS - GLASS FLOOR	10	08-Nov-16	21-Nov-16		SEALANTS - GLASS FLOOR
XS-109900	(FINISH) GLASS FLOOR	0		21-Nov-16		♦ (FINISH) GLASS FLOOR
ROOF GLAS	SS CAFE (W20)	60	17-Nov-15	17-Feb-16		
XS-100100	FOUNDATIONS - PARK LEVEL GLASS CAFE	20	17-Nov-15	16-Dec-15	1	FOUNDATIONS - PARK LEVEL GLASS CAFE
XS-100200	STEEL STRUCTURE - PARK LEVEL GLASS CAFE	20	17-Dec-15	19-Jan-16		STEEL STRUCTURE - PARK LEVEL GLASS CAFE
XS-100300	GLASS ROOF AND WALL CLADDING - PARK LEVEL GLASS CAFE	20	20-Jan-16	17-Feb-16		☐ GLASS ROOF AND WALL CLADDING - PARK LEVE
NERTICAL TE	RANSPORTATION & STAIRS	999	07-Aug-13 A	21-Aug-17		
	TION PERSONNEL & MATERIAL HOISTS	849	07-Aug-13 A	A 02-Nov-16		
	EL & MATERIAL HOIST #1 @ AREA 1 (TB TO ROOF)	570	16-Oct-13 A	03-Feb-16		
MH-101800	(LOE) HOIST #1 OPERATIONAL	570	16-Oct-13 A	03-Feb-16		(LOE) HOIST #1 OPERATIONAL
■ MH-102500	INSTALL FROM GROUND TO ROOF HOIST #1	5	24-Feb-15	02-Mar-15		I INSTALL FROM GROUND TO ROOF HOIST #1
MH-102300	DISMANTLE HOIST #1	10	21-Jan-16	03-Feb-16		■ DISMANTLE HOIST #1
PERSONNE	L & MATERIAL HOIST #2 BTWN LINE 13 & 14 (TB TO ROOF)	849	07-Aug-13 A	03-Feb-16		
MH-100000	(LOE) HOIST #2 OPERATIONAL	848	07-Aug-13 A	03-Feb-16		(LOE) HOIST #2 OPERATIONAL
MH-100400	INSTALL FROM GROUND TO ROOF HOIST #2	5	08-Dec-14	12-Dec-14		I INSTALL FROM GROUND TO ROOF HOIST #2
MH-100500	DISMANTLE HOIST #2	10	21-Jan-16	03-Feb-16		☐ DISMANTLE HOIST #2
PERSONNE	L & MATERIAL HOIST #3 BTWN LINE 20 & 21 (TB TO ROOF)	523	09-Dec-13	20-Jan-16		
MH-100800	INSTALL FROM MAT FOUNDATION TO GROUND HOIST #3	10	09-Dec-13	20-Dec-13		INSTALL FROM MAT FOUNDATION TO GROUND HOIST #3
MH-100900	INSPECTION - READY TO USE HOIST #3	1	23-Dec-13	23-Dec-13		I INSPECTION - READY TO USE HOIST #3
MH-100600	(LOE) HOIST #3 OPERATIONAL	513	23-Dec-13	20-Jan-16		(LOE) HOIST #3 OPERATIONAL
MH-101000	INSTALL FROM GROUND TO ROOF HOIST #3	5	28-May-15	03-Jun-15		▮ INSTALL FROM GROUND TO ROOF HOIST #3
MH-101100	DISMANTLE HOIST #3	10	06-Jan-16	20-Jan-16		☐ DISMANTLE HOIST #3
PERSONNE	L & MATERIAL HOIST #4 BTWN LINE 27 & 28 (TB TO ROOF)	630	21-Apr-14	02-Nov-16		
MH-101400	INSTALL FROM MAT FOUNDATION TO GROUND HOIST #4	10	21-Apr-14	02-May-14	1	■ INSTALL FROM MAT FOUNDATION TO GROUND HOIST #4
MH-101500	INSPECTION - READY TO USE HOIST #4	1	05-May-14	05-May-14		I INSPECTION - READY TO USE HOIST #4
MH-101200	(LOE) HOIST #4 OPERATIONAL	620	05-May-14	02-Nov-16		(LOE) HOIST #4 OPERATIONAL
MH-101600	INSTALL FROM GROUND TO ROOF HOIST #4	5	15-Sep-15	21-Sep-15		▮ INSTALL FROM GROUND TO ROOF HOIST #4
MH-101700	DISMANTLE HOIST #4	10	20-Oct-16	02-Nov-16		■ DISMANTLE HOIST #4
ESCALATOR	RS CONTRACTOR OF THE PROPERTY	218	25-Jul-16	08-Jun-17		
	WEEN 8 & 9 LINES (GROUND TO BUS)	178	25-Jul-16	11-Apr-17		
ES-100100	SET FRAME & MACHINES E307	20	25-Jul-16	19-Aug-16	1	■ SET FRAME & MACHINES E307
ES-100200	SET RAILS/SIDES E307		22-Aug-16	06-Sep-16		■ SET RAILS/SIDES E307
ES-100300	TREADS AND RISERS E307		07-Sep-16			■ TREADS AND RISERS E307
ES-100400	FINISHES E307	10	21-Sep-16	04-Oct-16		■ FINISHES E307
ES-100500	ADJUST E307		05-Oct-16	19-Oct-16		■ ADJUST E307

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	AISID	ND	2014 2015 JFMAMJJASPNDJFMAMJJASPND	2016 J. FMAM.J. JASDNI	2017 2017 2017 2018 2019 2019 2019 2019 2019 2019 2019 2019 2019 2019 2019 2019 2019	2018 JFMAMJJ
■ ES-100700	FINAL INSPECTION E307	5	05-Apr-17	11-Apr-17	1.19		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		FINAL INSPECTI	ION E307
□ E305 & E306	- BETWEEN LINES 10 & 11 (GROUND TO BUS)	158	07-Sep-16							
ES-102000	SET FRAME & MACHINES E305 & E306	20	07-Sep-16	04-Oct-16				■ SE ⁻	FRAME & MACHINES E30	05 & E306
■ ES-102100	SET RAILS/SIDES E305 & E306	10	05-Oct-16	19-Oct-16				■ SE	T RAILS/SIDES E305 & E3	306
■ ES-102200	TREADS AND RISERS E305 & E306	10	20-Oct-16	02-Nov-16					 READS AND RISERS E305	
ES-102300	FINISHES E305 & E306	10	03-Nov-16	16-Nov-16					INISHES E305 & E306	
ES-102400	ADJUST E305 & E306	10	17-Nov-16	02-Dec-16					ADJUST E305 & E306	
■ ES-102500	COMMISSIONING E305 & E306	10	05-Apr-17	18-Apr-17					COMMISSIONIN	IG E305 & E306
ES-102600	FINAL INSPECTION E305 & E306	5	19-Apr-17	25-Apr-17					■ FINAL INSPECT	ION E305 & E3
□ E408 & E409	- BETWEEN LINES 18 & 19 (BUS TO ROOF)	138	20-Oct-16	09-May-17						
ES-102900	SET FRAME & MACHINES E408 & E409	20	20-Oct-16	16-Nov-16					SET FRAME & MACHINES	E408 & E409
ES-103000	SET RAILS/SIDES E408 & E409	10	17-Nov-16	02-Dec-16					SET RAILS/SIDES E408 &	
ES-103100	TREADS AND RISERS E408 & E409	10	05-Dec-16	16-Dec-16					TREADS AND RISERS E	
■ ES-103200	FINISHES E408 & E409	10	19-Dec-16	03-Jan-17					FINISHES E408 & E409	
ES-103300	ADJUST E408 & E409	10	04-Jan-17	18-Jan-17					■ ADJUST E408 & E409	
■ ES-103400	COMMISSIONING E408 & E409	10	19-Apr-17	02-May-17					COMMISSIONII	NG E408 & E409
■ ES-103500	FINAL INSPECTION E408 & E409	5	03-May-17	09-May-17					I FINAL INSPEC	
	& E512 - BETWEEN LINES 20 & 22 (GROUND TO BUS)	111	-	23-May-17						
ES-103800	SET FRAME & MACHINES E510/E511/E512	20	14-Dec-16	12-Jan-17					SET FRAME & MACHIN	SES E510/E511/
ES-103900	SET RAILS/SIDES E510/E511/E512	10	13-Jan-17	27-Jan-17					SET RAILS/SIDES E5	10/E511/E512
ES-104000	TREADS AND RISERS E510/E511/E512	10	30-Jan-17	10-Feb-17					■ TREADS AND RISER	
ES-104100	FINISHES E510/E511/E512	10	13-Feb-17	27-Feb-17					FINISHES E510/E51	
ES-104200	ADJUST E510/E511/E512	10	28-Feb-17	13-Mar-17					■ ADJUST E510/E51	1/E512
ES-104300	COMMISSIONING E510/E511/E512	10	03-May-17	16-May-17					COMMISSION	
■ ES-104400	FINAL INSPECTION E510/E511/E512	5	17-May-17	23-May-17					I FINAL INSPE	
₽ E607 & E608	B - BETWEEN LINES 27 & 29 (GROUND TO BUS)	121	14-Dec-16	08-Jun-17						
ES-104700	SET FRAME & MACHINES E607 & E608	20	14-Dec-16	12-Jan-17				I	SET FRAME & MACHIN	NES E607 & E60
ES-104800	SET RAILS/SIDES E607 & E608	10	13-Jan-17	27-Jan-17					SET RAILS/SIDES E60	
■ ES-104900	TREADS AND RISERS E607 & E608	10	30-Jan-17	10-Feb-17					■ TREADS AND RISER	S E607 & E608
ES-105000	FINISHES E607 & E608	10	13-Feb-17	27-Feb-17					FINISHES E607 & E	608
ES-105100	ADJUST E607 & E608	10	28-Feb-17	13-Mar-17					■ ADJUST E607 & E6	808
ES-105200	COMMISSIONING E607 & E608	10	17-May-17	01-Jun-17					■ COMMISSIO	NING E607 & E
■ ES-105300	FINAL INSPECTION E607 & E608	5	02-Jun-17	08-Jun-17					■ FINAL INSPE	CTION E607 &
STAIRS		621	24-Feb-15	21-Aug-17						
	LINE 1.4 (GRND TO L2)	323	28-Oct-15	15-Feb-17						
STAIR 202		323	28-Oct-15	15-Feb-17						
	INSTALL LANDINGS & STAIRS - STAIR 202		28-Oct-15	03-Nov-15			II IN	NSTALL LANDINGS & STA	RS - STAIR 202	
	INSTALL HANDRAILS - STAIR 202	5	04-Nov-15	10-Nov-15	-			NSTALL HANDRAILS - STA		
	PLACE CONCRETE PANS - STAIR 202	5	11-Nov-15	17-Nov-15				PLACE CONCRETE PANS		
	PAINT - STAIR 202	5	26-Jan-17	01-Feb-17			•		PAINT - STAIR 202	
	PUNCH - STAIR 202		02-Feb-17	15-Feb-17					■ PUNCH - STAIR 202	
	A&B - LINE 1 (GRND TO PRK)			03-Mar-17						
	A&B - GRND TO L2			03-Mar-17						
ST-103600	INSTALL LANDINGS & STAIRS - STAIR 201 A&B GRND TO L2		24-Feb-15				I INSTALL LANDING	\$ & STAIRS - STAIR 201 A	&B GRND TO L2	
ST-103700	INSTALL LANDINGS & STAIRS - STAIR 201 A&B GRND TO L2 INSTALL HANDRAILS - STAIR 201 A&B GRND TO L2	5	03-Mar-15	02-Mar-15	-			ILS - STAIR 201 A&B GRN		
	PLACE CONCRETE PANS - STAIR 201 A&B GRND TO L2	-		06-May-15	-			RETE PANS - STAIR 201 A		
31-103000	TERRETORIES OF AND ON AD TO LE		30 Apr-13	JU May-13			I LAGE CONC	TETET AND TOTAL 2017	ULD OTTION TO LE	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

A satisfies ID	A stirite. Name	1 00	Ctart	Tial-1	_		204.4	0045	1 2010	JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	AISI7	JDJFM/	2014 AMJJASDNDJ	2015 FMAMJJASON	2016 DJFMAMJJASON	2017 2018 PJFMAMJJASPNDJFMAMJ
■ ST-10390	0 PAINT - STAIR 201 A&B GRND TO L2	5	10-Feb-17	16-Feb-17						PAINT - STAIR 201 A&B GRND TO
■ ST-10400	0 PUNCH - STAIR 201 A&B GRND TO L2	10	17-Feb-17	03-Mar-17						■ PUNCH - STAIR 201 A&B GRND
STAIR 20	01 A&B - L2 TO BD	499	03-Mar-15	03-Mar-17						
■ ST-10430	0 INSTALL LANDINGS & STAIRS - STAIR 201 A&B L2 TO BD	5	03-Mar-15	09-Mar-15				I INSTALL LANDING	GS & STAIRS - STAIR 201	A&B L2 TO BD
■ ST-10440	0 INSTALL HANDRAILS - STAIR 201 A&B L2 TO BD	5	10-Mar-15	16-Mar-15				I INSTALL HANDRA	AILS - STAIR 201 A&B L2 1	-ф вD
■ ST-10450	0 PLACE CONCRETE PANS - STAIR 201 A&B L2 TO BD	5	30-Apr-15	06-May-15				PLACE CONC	RETE PANS - STAIR 201	A&B L2 TO BD
■ ST-10460	0 PAINT - STAIR 201 A&B L2 TO BD	5	10-Feb-17	16-Feb-17						₽ PAINT - STAIR 201 A&B L2 TO BE
■ ST-10470	0 PUNCH - STAIR 201 A&B L2 TO BD	10	17-Feb-17	03-Mar-17						■ PUNCH - STAIR 201 A&B L2 TO
STAIR 20	01 A&B BD TO PRK	494	10-Mar-15	03-Mar-17						
ST-10500	0 INSTALL LANDINGS & STAIRS - STAIR 201 A&B BD TO PRK	5	10-Mar-15	16-Mar-15				I INSTALL LANDIN	GS & STAIRS - STAIR 201	A&B BD TO PRK
■ ST-10510	0 INSTALL HANDRAILS - STAIR 201 A&B BD TO PRK	5	17-Mar-15	23-Mar-15				I INSTALL HANDR	AILS - STAIR 201 A&B BD	TO PRK
■ ST-10520	0 PLACE CONCRETE PANS - STAIR 201 A&B BD TO PRK	5	30-Apr-15	06-May-15				PLACE CONC	RETE PANS - STAIR 201	A&B BD TO PRK
■ ST-10530	0 PAINT - STAIR 201 A&B BD TO PRK	5	10-Feb-17	16-Feb-17						■ PAINT - STAIR 201 A&B BD TO P
■ ST-10540	0 PUNCH - STAIR 201 A&B BD TO PRK	10	17-Feb-17	03-Mar-17						■ PUNCH - STAIR 201 A&B BD TO
□ STAIR 20	3 - LINE 5 (TB TO LC)	32	24-Sep-15	09-Nov-15						
STAIR 20	03 TB TO LC	32	24-Sep-15	09-Nov-15	ш					
■ ST-10080	0 INSTALL LANDINGS & STAIRS - STAIR 203	5	24-Sep-15	30-Sep-15				I INS	STALL LANDINGS & STAIR	S - STAIR 203
■ ST-10090	0 INSTALL HANDRAILS - STAIR 203	5	01-Oct-15	07-Oct-15				I IN	STALL HANDRAILS - STAI	R 203
■ ST-10100	0 PLACE CONCRETE PANS - STAIR 203	5	08-Oct-15	15-Oct-15				i PL	ACE CONCRETE PANS -	STAIR 203
■ ST-10110	0 PAINT - STAIR 203	5	20-Oct-15	26-Oct-15				1 P	AINT - STAIR 203	
■ ST-10120	0 PUNCH - STAIR 203	10	27-Oct-15	09-Nov-15					PUNCH - STAIR 203	
STAIR 20	4-B - LINE 5 (LC TO GRND)	186	17-May-16	15-Feb-17						
	04B LC TO GRND	186	17-May-16	15-Feb-17						
ST-10570		5	17-May-16	23-May-16					I INSTALL LAI	NDINGS & STAIRS - STAIR 204B
ST-10580	0 INSTALL HANDRAILS - STAIR 204B	5	24-May-16						I INSTALL HA	NDRAILS - STAIR 204B
■ ST-10590	0 PLACE CONCRETE PANS - STAIR 204B	5	02-Jun-16	08-Jun-16	1 1				■ PLACE COI	ICRETE PANS - STAIR 204B
■ ST-10600	0 PAINT - STAIR 204B	5	26-Jan-17	01-Feb-17						PAINT - STAIR 204B
■ ST-10610	0 PUNCH - STAIR 204B	10	02-Feb-17	15-Feb-17						■ PUNCH - STAIR 204B
STAIR 30	1 - LINE 7 (GRND TO PRK)	334	28-Oct-15	03-Mar-17						
	01 GRND TO L2	334	28-Oct-15	03-Mar-17						
ST-10150		5	28-Oct-15	03-Nov-15				1 1	NSTALL LANDINGS & STA	IRS - STAIR 301 GRND TO L2
■ ST-10160	0 INSTALL HANDRAILS - STAIR 301 GRND TO L2	5	04-Nov-15	10-Nov-15				1	INSTALL HANDRAILS - ST	AIR 301 GRND TO L2
■ ST-10170	0 PLACE CONCRETE PANS - STAIR 301 GRND TO L2	5	11-Nov-15	17-Nov-15				1	PLACE CONCRETE PANS	STAIR 301 GRND TO L2
■ ST-10180	0 PAINT - STAIR 301 GRND TO L2	5	10-Feb-17	16-Feb-17						■ PAINT - STAIR 301 GRND TO L2
■ ST-10190	0 PUNCH - STAIR 301 GRND TO L2	10	17-Feb-17	03-Mar-17						■ PUNCH - STAIR 301 GRND TO L
STAIR 30	01 - L2 TO BD	318	04-Nov-15	15-Feb-17						
■ ST-10220	0 INSTALL LANDINGS & STAIRS - STAIR 301 L2 TO BD	5	04-Nov-15	10-Nov-15				1	INSTALL LANDINGS & STA	ARS - STAIR 301 L2 TO BD
■ ST-10230	0 INSTALL HANDRAILS - STAIR 301 L2 TO BD	5	11-Nov-15	17-Nov-15				0	INSTALL HANDRAILS - ST	AIR 301 L2 TO BD
■ ST-10240	0 PLACE CONCRETE PANS - STAIR 301 L2 TO BD	5	18-Nov-15	24-Nov-15	1 1			1	PLACE CONCRETE PANS	S - STAIR 301 L2 TO BD
■ ST-10250	0 PAINT - STAIR 301 L2 TO BD	5	26-Jan-17	01-Feb-17						PAINT - STAIR 301 L2 TO BD
■ ST-10260	0 PUNCH - STAIR 301 L2 TO BD	10	02-Feb-17	15-Feb-17						■ PUNCH - STAIR 301 L2 TO BD
STAIR 30	01 - BD TO PARK	324	11-Nov-15	03-Mar-17						
■ ST-10290	0 INSTALL LANDINGS & STAIRS - STAIR 301 BD TO PRK	5	11-Nov-15	17-Nov-15				0	INSTALL LANDINGS & ST	AIRS - STAIR 301 BD TO PRK
■ ST-10300	0 INSTALL HANDRAILS - STAIR 301 BD TO PRK	5	18-Nov-15	24-Nov-15	1 1			1	INSTALL HANDRAILS - S	TAIR 301 BD TO PRK
ST-10310	0 PLACE CONCRETE PANS - STAIR 301 BD TO PRK	5	25-Nov-15	03-Dec-15	1 1			0	PLACE CONCRETE PAN	S - STAIR 301 BD TO PRK
■ ST-10320	0 PAINT - STAIR 301 BD TO PRK	5	10-Feb-17	16-Feb-17	1 1					■ PAINT - STAIR 301 BD TO PRK

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TG18.1 EXHIBIT I SCHEDULE



STATE NO. CHANGE STATE STA	Δ	iit. ID	Activity Norma		104	Trial-1-		JOINT VENTURE
## 193000 FAME PARKET PARK STORES TO 17	Activ	VITY ID	ACTIVITY Name	OD	Start		AISIC	
### STARR 300-UNE 11 (RRND TO L2) ### STARR 300-UNE 10 (RRND TO L2) ### STARR 300-UN		ST-103300	PUNCH - STAIR 301 BD TO PRK	10	17-Feb-17	03-Mar-17	1 1 1	PUNCH - STAIR 301 BD TO PRK
STARK 30 GRND TO 12	Ш	➡ STAIR 303 -	LINE 11 (GRND TO L2)	372	17-Aug-15	15-Feb-17		
\$1 10,000 REFERENCE STATE (1995 - 1995 -	Ш							
## 190000 ## 1900000 ## 1900000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 190000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 1900000 ## 190000000 ## 190000000 ## 190000000000	Ш	<u></u>						I INSTALL LANDINGS & STAIRS - STAIR 303
\$ 1	Ш						-	
## 51/48/10 PART - STAR 90 PART - ST	Ш						-	
## STERRED PARCE STARR 250 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 5 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 57 6 ASH 57 6 ASH 57 ***STARR 310 CRED TO ED 55 24 ASH 57 6 ASH 5	Ш			_		-		
STAIR 310 - LINE 10 (ROND TO DD)	Ш						-	
STAR 93 GRAN 17 BB STAR 94								
## 11-17-17-01 ## 11-17-17-02 ## 11-17-17-02 ## 11-17-17-02 ## 11-	Ш							
## 51-19700 SET TERRAZZO TERRAS AD GEBERS - STAR 310 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25-4-77 15 (0-5)-017 25 (0-5)-0	ш	III ————————						INSTALL LANDINGS & STAIRS ROUGH - STAIR 310
## 07-1972/00 MORTAL STANDOMALG, ALADOMS & GLAZMO - STAIR 310 10 25-4-17 10	Ш							
## ST-19700 PLACC-I STARE 310 \$\frac{\text{STARE 40}{	Ш			_		<u>-</u>	-	
STARK 401 - LINE 15 (GRND TO PRK)	Ш				· ·	<u>-</u>	-	
STAR 401 - GRND TO 12 STAR	ш					-		
## ST-1/1/2/2010 NSTALL LANDINGS & STARKS. STARK - BUT GRND TO L2 5 August 15 Augu	Ш			,				
ST-10900 INSTALL HANDRAILS. STAR 40 GRND TO L2 5 24-aug-15 28-bug-16 1	Ш							I INSTALL LANDINGS & STAIRS - STAIR 401 CRND TO L2
ST-10800 PLACE CONCRETE PANS - STAR 40 GRND TO L2 5 - 15-Jun-77 15-Jun	ш			5			-	
ST-108100 PART - STAR 401 GRND TO L2 5 00-Jun-77 5-Jun-77 1 PART - STAR 401 GRND TO L2 5 Jun-77 5-Jun-77 1 PART - STAR 401 GRND TO L2 5 Jun-77 5				5			-	
ST-108200 PUNCH-STAR 401 CRND TO L2 10 16 16 16 17 17 18 18 18 18 18 18	ш			5		<u>-</u>	-	
## STAR 491 - 2 TO BD ## ST-108500 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 L2 TO BD ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 401 BD TO PRK ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600 INSTALL LANDINGS & STARR 502 TB TO LC ## ST-108600	Ш						-	
ST-108500 INSTALL LANDINGS & STAIRS - STAIR 401 L2 TO BD	Ш							TONOTT STAIR FOT STAIR
ST-108000 MSTALL HANDRAILS - STAIR 401 L2 TO BD 5 31-Aug-15 08-Sup-15	Ш							I INSTALL LANDINGS & STAIRS STAIR 404 L2 TO RD
■ ST-108000 PANCE CONCRETE PANS - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 L2 TO BD ■ ST-108000 PANT - STAIR 401 BD TO PRK ■ ST-108000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB TO LC ■ ST-110000 PANT - STAIR 502 TB	Ш						-	
## ST-108800 PAINT: STAR 401 L2 TO BD ## ST-108800 PAINT: STAR 401 L2 TO BD ## ST-108900 PUNCH- STAIR 401 L2 TO BD ## ST-109200 NSTALL LANDINGS & STAIRS. STAIR 401 BD TO PRK ## ST-109200 NSTALL LANDINGS & STAIRS. STAIR 401 BD TO PRK ## ST-109200 NSTALL LANDINGS & STAIRS. STAIR 401 BD TO PRK ## ST-109200 NSTALL LANDINGS & STAIRS. STAIR 401 BD TO PRK ## ST-109200 NSTALL LANDINGS & STAIRS. STAIR 401 BD TO PRK ## ST-109200 PAINT: STAIR 401 BD TO PRK ## STAIR 502 - LUNE 20 (TB TO GRND) ## STAIR 502 - LUNE 20 (TB TO GRND) ## STAIR 502 - LUNE 20 (TB TO GRND) ## STAIR 502 - LUNE 20 (TB TO GRND) ## STAIR 503 - STAIR 502	Ш			5			-	
ST-108900 PUNCH - STAIR 401 E 7 O BD 10 23-Jun-17 10-Jul-17 10 10 17 10 17 10 17 10 17 10 17 10 17 10 17 17 10 17 17 10 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Ш			5	· ·	-	-	
## STAIR 401 - BD TO PRK ST-109200 INSTALL LANDINGS & STAIRS - STAIR 401 BD TO PRK 5 (93-Feb-16 (97-Feb-16) 17-Feb-16 18-Feb-16 18-Feb-	Ш			10				
■ ST-109200 INSTALL LANDINGS & STAIRS - STAIR 401 BD TO PRK ■ ST-109200 INSTALL LANDINGS & STAIRS - STAIR 401 BD TO PRK ■ ST-109300 INSTALL LANDINGS & STAIRS - STAIR 401 BD TO PRK ■ ST-109300 INSTALL HANDRAILS - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ ST-109300 PAINT - STAIR 401 BD TO PRK ■ STAIR 502 - LIME 20 (TIB TO GRND) ■ STAIR 502 - LIME 20 (TIB TO GRND) ■ ST-109300 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110000 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110000 PAINT - STAIR 502 TB TO LC ■ ST-110000 PAI	Ш							
■ ST-109300 INSTALL HANDRAILS - STAIR 401 BD TO PRK ■ ST-109300 PLACE CONCRETE PANS - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ PANS - STAIR 401 BD TO PANS - STAIR 401 BD TO PANS - STAIR 401 BD TO PANS - STAIR 40	Ш							I INSTALL LANDINGS & STAIRS - STAIR 401 BD TO PRK
■ ST-109400 PLACE CONCRETE PANS - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109500 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 TB TO LC ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ ST-110900 PAINT - STAIR 502 LC TO GRND ■ PAINT - STAIR 502 LC TO GRN	ш			-			-	
■ ST-109500 PAINT - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 PUNCH - STAIR 401 BD TO PRK ■ ST-109600 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-109600 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110000 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110000 PLACE CONCRETE PANS - STAIR 502 TB TO LC ■ ST-110200 PAINT - STAIR 502 TB TO LC ■ ST-110200 PAINT - STAIR 502 TB TO LC ■ ST-110200 PUNCH - STAIR 502 TB TO LC ■ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110700 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110700 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ■ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND ■ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND ■ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRETE PANS - STAIR 502 LC TO GRND ■ PLACE CONCRET	ш			-			_	
■ ST-109600 PUNCH - STAIR 401 BD TO PRK 10 30-Jun-17 17-Jul-17 STAIR 502 - LINE 20 (TB TO GRND) 352 03-Dec-15 02-May-17 STAIR 502 - LINE 20 (TB TO GRND) 352 03-Dec-15 09-Dec-15 ST-109900 INSTALL LANDINGS & STAIRS 502 TB TO LC ST-110000 INSTALL LANDINGS & STAIRS 502 TB TO LC ST-110000 INSTALL LANDINGS & STAIRS 502 TB TO LC ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 179 12-Aug-16 ST-110000 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND 18 ST-110000 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND 19 Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 19 Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 19 Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000 PALGE CONCRETE PANS - STAIR 502 LC TO GRND ST-110000	Ш							
STAIR 502 - LINE 20 (TB TO GRND) 352 03-Dec-15 02-May-17 STAIR 502 - TB TO LC 352 03-Dec-15 02-May-17 ST-109900 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC 5 03-Dec-15 09-Dec-15 ST-110000 INSTALL HANDRAILS - STAIR 502 TB TO LC 5 10-Dec-15 16-Dec-15 16-Dec-15 ST-110100 PLACE CONCRETE PANS - STAIR 502 TB TO LC 5 17-Dec-15 23-Dec-15 23-Dec-15 18-Npt-17	Ш						_	
ST-109900 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ST-109900 INSTALL HANDRAILS - STAIR 502 TB TO LC ST-110000 INSTALL HANDRAILS - STAIR 502 TB TO LC ST-110000 PLACE CONCRETE PANS - STAIR 502 TB TO LC ST-110000 PLACE CONCRETE PANS - STAIR 502 TB TO LC ST-110200 PUNCH - STAIR 502 TB TO LC ST-110200 PUNCH - STAIR 502 TB TO LC ST-110300 PUNCH - STAIR 502 TB TO LC ST-110500 INSTALL LANDINGS & STAIRS - STAIR 502 TB TO LC ST-110500 PLACE CONCRETE PANS - STAIR 502 TB TO LC ST-110500 PLACE CONCRETE PANS - STAIR 502 TB TO LC ST-110500 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110500 PLACE CONCRETE PANS - STAIR 502 LC TO G	Ш					02-May-17		
□ ST-10990	Ш		· · · · · · · · · · · · · · · · · · ·					
□ ST-110000 INSTALL HANDRAILS - STAIR 502 TB TO LC □ ST-110100 PLACE CONCRETE PANS - STAIR 502 TB TO LC □ ST-110200 PAINT - STAIR 502 TB TO LC □ ST-110300 PUNCH - STAIR 502 TB TO LC □ ST-110600 INSTALL HANDRAILS - STAIR 502 TB TO LC □ ST-110600 INSTALL HANDRAILS - STAIR 502 TB TO LC □ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND □ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110600 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ PAINT - STAIR 502 LC TO GRND	ш			<u> </u>				I INSTALL LANDINGS & STAIR 5- STAIR 502 TB TO LC
ST-110100 PLACE CONCRETE PANS - STAIR 502 TB TO LC ST-110200 PAINT - STAIR 502 TB TO LC ST-110300 PUNCH - STAIR 502 TB TO LC ST-110300 PUNCH - STAIR 502 TB TO LC ST-110300 PUNCH - STAIR 502 TB TO LC ST-110300 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND ST-110700 INSTALL HANDRAILS - STAIR 502 LC TO GRND ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110900 PAINT - STAIR 502 LC TO GRND ST-110900 PAINT - STAIR 502 LC TO GRND ST-110900 PUNCH - STAIR 502 LC TO GRND ST-110900 PUNCH - STAIR 502 LC TO GRND ST-111000 PUNCH - STAIR 502 LC TO GRND	Ш			-				
□ ST-110200 PAINT - STAIR 502 TB TO LC □ ST-110300 PUNCH - STAIR 502 TB TO LC □ ST-110300 PUNCH - STAIR 502 TB TO LC □ ST-110300 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND □ ST-110700 INSTALL LANDINGS & STAIRS 502 LC TO GRND □ ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND □ ST-110000 PUNCH - STAIR 502 LC TO GRND	Ш			-			-	
□ ST-110300 PUNCH - STAIR 502 TB TO LC □ STAIR 502 - LC TO GRND □ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND □ ST-110700 INSTALL HANDRAILS - STAIR 502 LC TO GRND □ ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ ST-110900 PAINT - STAIR 502 LC TO GRND □ PAINT - STAIR 502 LC TO GRND	Ш			-			-	
STAIR 502 - LC TO GRND 179 12-Aug-16 02-May-17 ☐ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND 5 12-Aug-16 18-Aug-16 ☐ ST-110700 INSTALL HANDRAILS - STAIR 502 LC TO GRND 5 19-Aug-16 25-Aug-16 ☐ ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND 5 26-Aug-16 01-Sep-16 ☐ ST-110900 PAINT - STAIR 502 LC TO GRND 5 12-Apr-17 18-Apr-17 ☐ ST-111000 PUNCH - STAIR 502 LC TO GRND 5 12-Apr-17 18-Apr-17 ☐ ST-111000 PUNCH - STAIR 502 LC TO GRND 10 19-Apr-17 02-May-17	Ш			-	· ·	· ·	-	
■ ST-110600 INSTALL LANDINGS & STAIRS - STAIR 502 LC TO GRND ST-110700 INSTALL HANDRAILS - STAIR 502 LC TO GRND ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110900 PAINT - STAIR 502 LC TO GRND ST-110900 PUNCH - STAIR 502 LC TO GRND ST-111000 PUNCH - STAIR 502 LC TO GRND					·			
ST-110700 INSTALL HANDRAILS - STAIR 502 LC TO GRND ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND ST-110900 PAINT - STAIR 502 LC TO GRND ST-11000 PUNCH - STAIR 502 LC TO GRND 10 19-Apr-17 02-May-17								I INSTALL LANDINGS & STAIRS - STAIR 502 LC TO
ST-110800 PLACE CONCRETE PANS - STAIR 502 LC TO GRND 5 26-Aug-16 01-Sep-16 ST-110900 PAINT - STAIR 502 LC TO GRND 5 12-Apr-17 18-Apr-17 ST-111000 PUNCH - STAIR 502 LC TO GRND 1 PLACE CONCRETE PANS - STAIR 502 LC TO GRND 5 12-Aug-16 01-Sep-16 I PAINT - STAIR 502 LC TO GRND 1 PUNCH - STAIR 502 LC TO GRND 1 PUNCH - STAIR 502 LC TO GRND						_		
➡ ST-110900 PAINT - STAIR 502 LC TO GRND 5 12-Apr-17 18-Apr-17 ➡ ST-111000 PUNCH - STAIR 502 LC TO GRND 10 19-Apr-17 02-May-17				-				
■ ST-111000 PUNCH - STAIR 502 LC TO GRND 10 19-Apr-17 02-May-17 □ PUNCH - STAIR 502 LC TO GR				-				
				-	· ·			
	Lav					.,		

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TG18.1 EXHIBIT I SCHEDULE



A ath site (ID	A stiritu Nome	0.0	Ctowt	Timin!		2044	0040	JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	AISID	2014 2015 NDJFMAMJJJASDNDJFMAMJJJASDNC	2016 JFMAMJJASONE	2017 2018 PJFMAMJJJASONDJFMAMJJ
- STAIR 603 -	LINE 28 (GRND TO L2)	196	12-Apr-16		1.12			
STAIR 603		196	12-Apr-16	25-Jan-17				
	INSTALL LANDINGS & STAIRS - STAIR 603	5	12-Apr-16	18-Apr-16			I INSTALL LANDI	NGS & STAIRS - STAIR 603
■ ST-111400	INSTALL HANDRAILS - STAIR 603	5	19-Apr-16	25-Apr-16	-			RAILS - STAIR 603
	PLACE CONCRETE PANS - STAIR 603	5	26-Apr-16	02-May-16	_			RETE PANS - STAIR 603
	PAINT - STAIR 603	5	04-Jan-17	10-Jan-17				PAINT - STAIR 603
	PUNCH - STAIR 603	10	11-Jan-17	25-Jan-17				PUNCH - STAIR 603
STAIR 601A	&B - LINE 31 (GRND TO PRK)	339	12-Apr-16	21-Aug-17				
	A&B - GRND TO L2	319	12-Apr-16	24-Jul-17				
	INSTALL LANDINGS & STAIRS - STAIR 601A&B GRND TO L2	10	12-Apr-16	25-Apr-16			I INSTALLIAND	NGS & STAIRS - STAIR 601A&B GRND TO
	INSTALL HANDRAILS - STAIR 601A&B GRND TO L2	10	26-Apr-16	09-May-16				PRAILS - STAIR 601A&B GRND TO L2
	PLACE CONCRETE PANS - STAIR 601A&B GRND TO L2	5	10-May-16	16-May-16	-			RETE PANS - STAIR 601A&B GRND TO L
ST-112300	PAINT - STAIR 601A&B GRND TO L2	10	23-Jun-17	10-Jul-17	-			■ PAINT - STAIR 601A&B GI
ST-112400	PUNCH - STAIR 601A&B GRND TO L2		11-Jul-17	24-Jul-17	-			PUNCH - STAIR 601A&B
	A&B - L2 TO BD		26-Apr-16	07-Aug-17				
	INSTALL LANDINGS & STAIRS - STAIR 601A&B L2 TO BD		26-Apr-16	09-May-16			■ INSTALLIANI	DINGS & STAIRS - STAIR 601A&B L2 TO B
ST-112800	INSTALL HANDRAILS - STAIR 601A&B L2 TO BD	10	10-May-16	-	-			IDRAILS - STAIR 601A&B L2 TO BD
ST-112900	PLACE CONCRETE PANS - STAIR 601A&B L2 TO BD	5	24-May-16	-	-		_	CRETE PANS - STAIR 601A&B L2 TO BD
ST-113000	PAINT - STAIR 601A&B L2 TO BD	10	11-Jul-17	24-Jul-17	-		I TEACE GOIN	PAINT - STAIR 601A&B L
	PUNCH - STAIR 601A&B L2 TO BD		25-Jul-17	07-Aug-17	-			PUNCH STAIR 601A&E
	A&B - BD TO PRK		13-May-16					a renter critic ornaz
ST-113400	INSTALL LANDINGS & STAIRS - STAIR 601A&B BD TO PRK		13-May-16		_		■ INISTALLIAN	DINGS & STAIRS - STAIR 601A&B BD TO
ST-113500	INSTALL LANDINGS & STAIRS - STAIR 601A&B BD TO PRK		31-May-16		_			NDRAILS - STAIR 601A&B BD TO PRK
ST-113600	PLACE CONCRETE PANS - STAIR 601A&B BD TO PRK	5	14-Jun-16	20-Jun-16	_			NCRETE PANS - STAIR 601A&B BD TO PR
ST-113700	PAINT - STAIR 601A&B BD TO PRK	10	25-Jul-17	07-Aug-17	_		FLACE CO	PAINT - STAIR 601A&B
	PUNCH - STAIR 601A&B BD TO PRK	10	08-Aug-17	21-Aug-17				PUNCH - STAIR 601A8
			27-Sep-16					T ONOT - STAIR GOTAG
	LINE 32 (LC TO GRND)							
STAIR 704		91	27-Sep-16				B 1010	
	INSTALL LANDINGS & STAIRS - STAIR 704		27-Sep-16		_			TALL LANDINGS & STAIRS - STAIR 704
	INSTALL HANDRAILS - STAIR 704		-	11-Oct-16	_			TALL HANDRAILS - STAIR 704
ST-114300	PLACE CONCRETE PANS - STAIR 704	5	12-Oct-16	18-Oct-16	_		I PL	ACE CONCRETE PANS - STAIR 704
	PAINT - STAIR 704	5	19-Jan-17	25-Jan-17	_			PAINT - STAIR 704
	PUNCH - STAIR 704		26-Jan-17	08-Feb-17	_			PUNCH - STAIR 704
ELEVATORS				29-Jun-17				
_	303 - BETWEEN LINES 8 & 9 (LC TO PARK)	437	16-Jul-15	18-Apr-17				
■ PE-100000	SET OVERHEAD MACHINES - PE302 & PE303	1	16-Jul-15	16-Jul-15	_		RHEAD MACHINES - PE30	
PE-100100	(START) WATER TIGHT HATCH & TEMP POWER - PE302 & PE303	0	08-Sep-15		_	♦ (STAF	'	& TEMP POWER - PE302 & PE303
PE-100200	INSTALL ELEVATOR (RAILS, PIT, FRAME, AND CAR) - PE302 & PE303		08-Sep-15	05-Jan-16	_		· ·	AILS, PIT, FRAME, AND CAR) - PE302 & F
PE-100300	ADJUST/INSPECT TEMP VARIANCE - PE302 & PE303		06-Jan-16	20-Jan-16	_			VP VARIANCE - PE302 & PE303
PE-100400	FINAL ADJUSTMENTS - PE302 & PE303		21-Jan-16	03-Feb-16			■ FINAL ADJUSTMENT	
PE-100600	COMMISSIONING - PE302 & PE303	10	22-Mar-17	04-Apr-17	_			COMMISSIONING - PE302 & PE3
PE-100700	FINAL INSPECTIONS (SFFD/CAL-OSHA) - PE302 & PE303		05-Apr-17	18-Apr-17				■ FINAL INSPECTIONS (SFFD/CA
_	402 - BETWEEN LINES 16 & 17 (LC TO PARK)	457	01-Jul-15	02-May-17				
PE-100800	SET OVERHEAD MACHINES - PE401 & PE402	1	01-Jul-15	01-Jul-15			HEAD MACHINES - PE40	
PE-100900	(START) WATER TIGHT HATCH & TEMP POWER - PE401 & PE402		21-Aug-15			·		TEMP POWER - PE401 & PE402
PE-101000	INSTALL ELEVATOR (RAILS, PIT, FRAME, AND CAR) - PE401 & PE402	80	21-Aug-15	17-Dec-15			INSTALL ELEVATOR (RA	ILS, PIT, FRAME, AND CAR) - PE401 & PE
Layout: Exhibit I							User:	jramirez

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

		1 01011 12211						JOINT VENT	
ty ID	Activity Name	OE	Start	Finish	2014 		2016 D.J.F.M.A.M.J.J.A.S.O.N.C	2017 	2018
■ PE-101100	ADJUST/INSPECT TEMP VARIANCE - PE401 & PE402	10	18-Dec-15	05-Jan-16			ADJUST/INSPECT TEM		
PE-101200	FINAL ADJUSTMENTS - PE401 & PE402		06-Jan-16	20-Jan-16			☐ FINAL ADJUSTMENTS		
PE-101400	COMMISSIONING - PE401 & PE402	10		18-Apr-17				COMMISSION	NING - PE401
■ PE-101500	FINAL INSPECTIONS (SFFD/CAL-OSHA) - PE401 & PE402	10		02-May-17				☐ FINAL INSPE	
	E503 - BETWEEN LINES 25 & 25 (LC TO PARK)		7 01-Jul-15	16-May-17					
PE-101600	SET OVERHEAD MACHINES - PE504 & PE505	1	01-Jul-15	01-Jul-15		L SET OVER	 RHEAD MACHINES - PE504	& PE505	
PE-101700	(START) WATER TIGHT HATCH & TEMP POWER - PE502 & PE503	0		0.000		, -	T) WATER TIGHT HATCH		2 & PF503
PE-101800	INSTALL ELEVATOR (RAILS, PIT, FRAME, AND CAR) - PE502 & PE503	80		17-Dec-15		(3.7.11.	INSTALL ELEVATOR (RA		
PE-101900	ADJUST/INSPECT TEMP VARIANCE - PE502 & PE503		18-Dec-15				■ ADJUST/INSPECT TEM		'
PE-102000	FINAL ADJUSTMENTS - PE502 & PE503	10	_	20-Jan-16			☐ FINAL ADJUSTMENTS		
PE-102200	COMMISSIONING - PE502 & PE503	10	_	02-May-17				■ COMMISSIO	NING - PF5
PE-102300	FINAL INSPECTIONS (SFFD/CAL-OSHA) - PE502 & PE503	10						☐ FINAL INSP	
	E702 - BETWEEN LINES 32 & 33 (LC TO PARK)		9 19-Apr-16	01-Jun-17					
PE-102400	SET OVERHEAD MACHINES - PE701 & PE702		19-Apr-16	19-Apr-16			I SET OVERHEAD	 MACHINES - PE701 &	PF702
PE-102500	(START) WATER TIGHT HATCH & TEMP POWER - PE701 & PE702	0	· ·	13 Apr 10				TER TIGHT HATCH & T	
PE-102600	INSTALL ELEVATOR (RAILS, PIT, FRAME, AND CAR) - PE701 & PE702	80		04-Oct-16	-		, , ,	TALL ELEVATOR (RAILS	
PE-102700	ADJUST/INSPECT TEMP VARIANCE - PE701 & 702	10		19-Oct-16	-			JUST/INSPECT TEMP \	
PE-102800	FINAL ADJUSTMENTS - PE701 & PE702	10		02-Nov-16	-			NAL ADJUSTMENTS - F	
PE-103000	COMMISSIONING - PE701 & PE702	10						COMMISSION	
PE-103100	FINAL INSPECTIONS (SFFD/CAL-OSHA) - PE701 & PE702		17-May-17					☐ FINAL INS	
	E202 - BETWEEN LINES 4 & 5 (LC TO PARK)		7 16-Jul-15	15-Jun-17					. 20110110
PE-103200	SET OVERHEAD MACHINES - SE201 & SE202	1	16-Jul-15	16-Jul-15		I SET OVE	 ERHEAD MACHINES - SE20	11 & SE202	
PE-103300	(START) WATER TIGHT HATCH & TEMP POWER - SE201 & SE202	0		10 001 10	-		RT) WATER TIGHT HATCH		01 & SE202
PE-103400	INSTALL ELEVATOR (RAILS, PIT, FRAME, AND CAR) - SE201 & SE202	80		05-Jan-16	-	V (STA	INSTALL ELEVATOR (F		
PE-103500	ADJUST/INSPECT TEMP VARIANCE - SE201 & SE202	10	<u> </u>	20-Jan-16			ADJUST/INSPECT TE		
PE-103600	FINAL ADJUSTMENTS - SE201 & SE202	10		_	-		■ FINAL ADJUSTMENT		W 92202
PE-103800	COMMISSIONING - SE201 & SE202		17-May-17	_	-		I INAL ADOCCTIVENT	COMMISS	IONING - S
PE-103900	FINAL INSPECTIONS (SFFD/CAL-OSHA) - SE201 & SE202		02-Jun-17	15-Jun-17				☐ FINAL IN	
	E1 (GROUND TO PARK)	487		29-Jun-17					
PE-104000	SET OVERHEAD MACHINES - PE201	1	16-Jul-15	16-Jul-15		I SET OVE	RHEAD MACHINES - PE20	1	
PE-104100	(START) WATER TIGHT HATCH & TEMP POWER - PE201	0		10 001 10	_	, OLI OVE)' WATER TIGHT HATCH	& TEMP PC
PE-104800	FRAME AND ROCK CORE-BOARD SHAFT - PE201		21-Jul-16	17-Aug-16	-		, , ,	AND ROCK CORE-BOA	
PE-104200	INSTALL ELEVATOR (RAILS, PIT, FRAME, AND CAR) - PE201	80		14-Dec-16	-			INSTALL ELEVATOR (
PE-104300	ADJUST/INSPECT TEMP VARIANCE - PE201		15-Dec-16		-			ADJUST/INSPECT TE	
PE-104400	FINAL ADJUSTMENTS - PE201		30-Dec-16	_			•	FINAL ADJUSTMEN	
PE-104600	COMMISSIONING - PE201		02-Jun-17	15-Jun-17	-			■ COMMIS	
PE-104700	FINAL INSPECTIONS (SFFD/CAL-OSHA) - PE201	10		29-Jun-17				☐ FINAL IN	
	ORK @ GRADE		1 21-May-15						101 2011011
			1 21-May-15						
	ERMANENT UTILITIES AND CROSSING		·			CURE CRO	NIND LEVEL DECK. FIDO	CTDEET	
SW-120900	CURE GROUND LEVEL DECK - FIRST STREET		21-May-15		-		DUND LEVEL DECK - FIRST		
SW-118600	WATERPROOF DECK - FIRST STREET				_		PROOF DECK - FIRST STR		
SW-118700	SET PHASE 2 UTILITIES ON DECK - FIRST STREET	10		30-Jul-15			ASE 2 UTILITIES ON DECK		
SW-118800	INSTALL PHASE 3 UTILITIES - FIRST STREET	30		27-Aug-15	-		ALL PHASE 3 UTILITIES - F	KOIOIKEEI	
SW-118900	BACKFILL HALF FIRST ST		28-Aug-15				KFILL HALF FIRST ST		
SW-119000	PAVE HALF FIRST ST	10	15-Sep-15				/E HALF FIRST ST	DOAD FIRST STREET	_
SW-119100	DIVERT BRIDGE TRAFFIC TO ROAD - FIRST STREET	1	29-Sep-15	29-Sep-15		I DIV	ERT BRIDGE TRAFFIC TO	ROAD - FIRST STREET	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TG18.1 EXHIBIT I SCHEDULE



								JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish		2014 2015	2016	2017	2018
SW-119300	INFILL STRUCTURAL DECK PENETRATIONS - FIRST STREET	15	12-Nov-15	04-Dec-15	AS	NDJFMAMJJASDNDJFMAMJJASDNC	INFILL STRUCTURAL DEC		
SW-119300 SW-119400	WATERPROOF STRUCTURAL DECK PENETRATIONS - FIRST STREET		07-Dec-15	18-Dec-15	_		WATERPROOF STRUCT		
SW-119500	BACKFILL REMAINDER FIRST ST		21-Dec-15	06-Jan-16	_		BACKFILL REMAINDER		
SW-119600	PAVE REMAINDER FIRST ST	10	07-Jan-16	21-Jan-16		<u> </u>	PAVE REMAINDER FIF		
			01-Oct-15	01-Jun-16			- FAVE REMAINDER FIR	(3) 3)	
SW-121900	T. PERMANENT UTILITIES AND CROSSING						IDE CDOUND LEVEL DEC	V FDEMONT STREET	
SW-121900 SW-119700	CURE GROUND LEVEL DECK - FREMONT STREET WATERPROOF DECK - FREMONT STREET	28	01-Oct-15	28-Oct-15 25-Nov-15	_		JRE GROUND LEVEL DEC WATERPROOF DECK - FR		
	SET PHASE 2 UTILITIES ON DECK - FREMONT STREET		29-Oct-15		_	_	SET PHASE 2 UTILITIES		DEET
SW-119800 SW-119900	INSTALL PHASE 3 UTILITIES - FREMONT STREET		30-Nov-15 30-Nov-15	11-Dec-15 13-Jan-16				LITIES - FREMONT STREE	
SW-120000	BACKFILL HALF FREMONT ST	30	14-Jan-16	28-Jan-16		_	BACKFILL HALF FREM]'
	PAVE HALF FREMONT ST - FREMONT STREET	-		11-Feb-16				NONT ST NT ST - FREMONT STREE	<u> </u>
SW-120100		10	29-Jan-16 12-Feb-16					AFFIC TO ROAD - FREMO	
SW-120200	DIVERT BRIDGE TRAFFIC TO ROAD - FREMONT STREET INFILL STRUCTURAL DECK PENETRATIONS - FREMONT STREET	1 15		12-Feb-16				JRAL DECK PENETRATION	
SW-120400		15	29-Mar-16	18-Apr-16					
SW-120500	WATERPROOF STRUCTURAL DECK PENETRATIONS - FREMONT STREET	10	19-Apr-16	02-May-16	_			STRUCTURAL DECK PEI MAINDER FREMONT ST	NETRATIONS
SW-120600	BACKFILL REMAINDER FREMONT ST.	10	03-May-16	-	_				EMONIT CEDE
SW-120700	PAVE REMAINDER FREMONT ST - FREMONT STREET	10	17-May-16				■ PAVE REMAI	NDER FREMONT ST - FR	EMONISIRE
	PERMANENT UTILITIES AND CROSSING		23-Jan-16	19-Sep-16					
SW-122000	CURE GROUND LEVEL DECK - BEALE STREET	28	23-Jan-16	19-Feb-16				EL DECK - BEALE STREE	= T
SW-120800	WATERPROOF DECK - BEALE STREET	20	22-Feb-16	18-Mar-16			WATERPROOF DE		L
SW-121000	INSTALL PHASE 3 UTILITIES - BEALE STREET		21-Mar-16	29-Apr-16				E 3 UTILITIES - BEALE ST	REET
SW-121100	BACKFILL HALF BEALE ST	10	02-May-16	-			BACKFILL HAL		
SW-121200	PAVE HALF BEALE ST	10	-	31-May-16			■ PAVE HALF E		l
SW-121300	DIVERT BRIDGE TRAFFIC TO ROAD - BEALE STREET	1	-	01-Jun-16				GE TRAFFIC TO ROAD -	
SW-121500	INFILL STRUCTURAL DECK PENETRATIONS - BEALE STREET	15	15-Jul-16	04-Aug-16	_			TRUCTURAL DECK PENE	
SW-121600	WATERPROOF STRUCTURAL DECK PENETRATIONS - BEALE STREET	10	05-Aug-16	18-Aug-16				PROOF STRUCTURAL DI	
SW-121700	BACKFILL REMAINDER BEALE ST	10	19-Aug-16	01-Sep-16				ILL REMAINDER BEALE	ST
SW-121800	PAVE REMAINDER BEALE ST		06-Sep-16	19-Sep-16			■ PAVE	REMAINDER BEALE ST	
	GRID LINES A - J)		24-Aug-16	23-Feb-17					
SW-100000	(START) SITE CIVIL - WEST END		24-Aug-16		_		·) SITE CIVIL - WEST END	
SW-100050	PREP STRUCTURAL SLAB FOR WP - WEST END		24-Aug-16		_			STRUCTURAL SLAB FOR	1
SW-100100	WATERPROOFING GROUND LEVEL DECK - WEST END		31-Aug-16				■ WAT	ERPROOFING GROUND L	EVEL DECK -
SW-100200	STRUCTURAL FILL - WEST END		23-Sep-16	29-Sep-16				JCTURAL FILL - WEST EN	
SW-100300	CONC. STRUCTURAL SUB-SLAB/BOLLARD FOOTINGS - WEST END		30-Sep-16	14-Oct-16				NC. STRUCTURAL SUB-S	
SW-100500	CURB & GUTTER - WEST END		07-Oct-16	14-Oct-16				RB & GUTTER - WEST EN	
SW-100700	IRRIGATION/SITE ELEC/DRAINAGE - WEST END		17-Oct-16	28-Oct-16				RIGATION/SITE ELEC/DR.	AINAGE - WES
SW-100600	FINE GRADE - WEST END	5	31-Oct-16	04-Nov-16				NE GRADE - WEST END	
SW-100800	PEDESTRIAN PAVING REINFORCING - WEST END	5	07-Nov-16	11-Nov-16				EDESTRIAN PAVING REII	
SW-100900	PEDESTRIAN PAVING LAYOUT - WEST END	15	14-Nov-16	06-Dec-16				PEDESTRIAN PAVING LA	
SW-101000	EDGEFORM PEDESTRIAN PAVING; STAGE 1 - WEST END	10	07-Dec-16					EDGEFORM PEDESTRIA	
SW-101100	PLACE PEDESTRIAN PAVING; STAGE 1 - WEST END	1	21-Dec-16	21-Dec-16			1	PLACE PEDESTRIAN PA	1 '
SW-101200	STRIP EDGEFORM - WEST END	2	22-Dec-16	23-Dec-16			1	STRIP EDGEFORM - WE	
SW-101300	PLACE PEDESTRIAN PAVING; STAGE 2 - WEST END	1	27-Dec-16	27-Dec-16				PLACE PEDESTRIAN PA	,
SW-101400	CURE TIME FOR PEDESTRIAN PAVING - WEST END	14	28-Dec-16	18-Jan-17			1	CURE TIME FOR PED	ESTRIAN PAVI
SW-101450	SANDBLAST PEDESTRIAN PAVING - WEST END	10	19-Jan-17	01-Feb-17				SANDBLAST PEDES	RIAN PAVING
SW-101500	SET PRECAST PLANTERS/SS BOLLARDS - WEST END	5	02-Feb-17	08-Feb-17				I SET PRECAST PLAN	TERS/SS BOL
SW-101600	WP PLANTERS/SOIL/PLANTING - WEST END	10	09-Feb-17	23-Feb-17				■ WP PLANTERS/SOI	
SW-101700	SITE ELEC TRIM - WEST END	5	16-Feb-17	23-Feb-17				SITE ELEC TRIM - V	VEST END

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TG18.1 EXHIBIT I SCHEDULE



								JOINT VENTUR	RE
y ID Acti	ivity Name	OD	Start	Finish	٨٨٥				2018
WEST MINNA (GR	PID LINES 1 - 10)	158	24-Aug-16	13-Apr-17	AS				A ۱. ۱. ۲
	ART) SITE CIVIL - WEST MINNA		-	10 Αρι 17			<u> </u>	T) SITE CIVIL - WEST MIN	INIA
	·		24-Aug-16	09 Can 16	-		,	STRUCTURAL SLAB FOR	
	EP STRUCTURAL SLAB FOR WP - WEST MINNA		24-Aug-16	-	-				
	TERPROOFING GROUND LEVEL DECK - WEST MINNA	20	31-Aug-16	_	-			ERPROOFING GROUND	
	RUCTURAL FILL - WEST MINNA	5	30-Sep-16		_			RUCTURAL FILL - WEST M	
	NC. STRUCTURAL SUB-SLAB/BOLLARD FOOTINGS - WEST MINNA	20	07-Oct-16	04-Nov-16				ONC. STRUCTURAL SUB-	
	RB & GUTTER - WEST MINNA	5	31-Oct-16	04-Nov-16	-			URB & GUTTER - WEST N	
	NC PARKING STRIP - WEST MINNA	5	07-Nov-16	11-Nov-16	-		_	ONC PARKING STRIP - W	
	RIGATION/SITE ELEC/DRAINAGE - WEST MINNA	15	07-Nov-16	29-Nov-16	-			IRRIGATION/SITE ELEC/E	
_	E GRADE - WEST MINNA	5	30-Nov-16	06-Dec-16	_			FINE GRADE - WEST MIN	
	DESTRIAN PAVING REINFORCING - WEST MINNA	5	07-Dec-16	13-Dec-16				PEDESTRIAN PAVING R	
	DESTRIAN PAVING LAYOUT - WEST MINNA	20	14-Dec-16	12-Jan-17	_		į į	PEDESTRIAN PAVING	
	GEFORM PEDESTRIAN PAVING; STAGE 1 - WEST MINNA	15	13-Jan-17	03-Feb-17	_			■ EDGEFORM PEDES	
	ACE PEDESTRIAN PAVING; STAGE 1 - WEST MINNA	1	06-Feb-17	06-Feb-17				I PLACE PEDESTRIAN	
SW-103100 STF	RIP EDGEFORM - WEST MINNA	2	07-Feb-17	08-Feb-17				I STRIP EDGEFORM -	- WEST
SW-103200 PLA	ACE PEDESTRIAN PAVING; STAGE 2 - WEST MINNA	1	09-Feb-17	09-Feb-17				I PLACE PEDESTRIAI	N PAVII
SW-103300 CUF	RE TIME FOR PEDESTRIAN PAVING - WEST MINNA	14	10-Feb-17	02-Mar-17				CURE TIME FOR P	EDEST
SW-103400 SAN	NDBLAST PEDESTRIAN PAVING - WEST MINNA	10	03-Mar-17	16-Mar-17				SANDBLAST PED	ESTRIA
SW-103500 SET	Γ PRECAST PLANTERS/SS BOLLARDS - WEST MINNA	10	17-Mar-17	30-Mar-17				SET PRECAST P	PLANTER
SW-103600 WP	PLANTERS/SOIL/PLANTING - WEST MINNA	10	31-Mar-17	13-Apr-17				WP PLANTERS/	/\$OIL/PI
SW-103700 SIT	E ELEC TRIM - WEST MINNA	5	07-Apr-17	13-Apr-17				I SITE ELEC TRIM	ฟ - WES
WEST NATOMA (GRID LINES 1 - 10)	271	09-Sep-16	12-Oct-17					
SW-103900 (ST.	ART) SITE CIVIL - WEST NATOMA	0	09-Sep-16				♦ (STAI	T) SITE CIVIL - WEST NA	AMOTA
SW-104000 PRE	EP STRUCTURAL SLAB FOR WP - WEST NATOMA	15	09-Sep-16	29-Sep-16			■ PRE	P STRUCTURAL SLAB FO	OR WP -
SW-104100 WA	TERPROOFING GROUND LEVEL DECK - WEST NATOMA	20	23-Sep-16	21-Oct-16			■ W	TERPROOFING GROUNI	d LEVE
■ SW-104200 STF	RUCTURAL FILL - WEST NATOMA	10	24-Oct-16	04-Nov-16			■ S	TRUCTURAL FILL - WEST	NATON
SW-104300 COI	NC. STRUCTURAL SUB-SLAB/BOLLARD FOOTINGS - WEST NATOMA	20	07-Nov-16	06-Dec-16				CONC. STRUCTURAL SU	JB-SLAE
SW-104400 CUF	RB & GUTTER - WEST NATOMA	5	30-Nov-16	06-Dec-16			1	CURB & GUTTER - WEST	TNATO
SW-104600 IRR	IGATION/SITE ELEC/DRAINAGE - WEST NATOMA	15	07-Dec-16	28-Dec-16				IRRIGATION/SITE ELEC	C/DRAIN
SW-104700 FIN	E GRADE - WEST NATOMA	5	12-May-17	18-May-17				I FINE GRADE	WEST
■ SW-104800 PE	DESTRIAN PAVING REINFORCING - WEST NATOMA	10	19-May-17	05-Jun-17				■ PEDESTRIA	N PAVI
SW-104900 PE	DESTRIAN PAVING LAYOUT - WEST NATOMA		06-Jun-17					■ PEDESTRI	IAN PA
SW-105000 ED0	GEFORM PEDESTRIAN PAVING; STAGE 1 - WEST NATOMA	20	27-Jun-17	26-Jul-17				■ EDGEFC	ORM PE
SW-105100 PLA	ACE PEDESTRIAN PAVING; STAGE 1 - WEST NATOMA	2	27-Jul-17	28-Jul-17				I PLACE F	PEDEST
	RIP EDGEFORM - WEST NATOMA	5	31-Jul-17	04-Aug-17				I STRIP E	
SW-105300 PLA	ACE PEDESTRIAN PAVING; STAGE 2 - WEST NATOMA	2	07-Aug-17	08-Aug-17				I PLACE	PEDES
	RE TIME FOR PEDESTRIAN PAVING - WEST NATOMA		09-Aug-17					■ CURE	
	NDBLAST PEDESTRIAN PAVING - WEST NATOMA		29-Aug-17	13-Sep-17				■ SANI	
	T PRECAST PLANTERS/SS BOLLARDS - WEST NATOMA		14-Sep-17		-			■ SET	
	PLANTERS/SOIL/PLANTING - WEST NATOMA			12-Oct-17	-				PLANT
	E ELEC TRIM - WEST NATOMA		05-Oct-17	12-Oct-17					ΓE ELEC
SHAW ALLEY			30-Sep-16						
	ART) SITE CIVIL - SHAW ALLEY	0	30-Sep-16	11 200 10			△ /9T	 ART) SITE CIVIL - SHAW A	ALLEY
	EP STRUCTURAL SLAB FOR WP - SHAW ALLEY		-	06-Oct 16	-		,	P STRUCTURAL SLAB F	
			30-Sep-16	_	-				
	TERPROOFING GROUND LEVEL DECK - SHAW ALLEY			21-Oct-16	-			TERPROOFING GROUNI	
	RUCTURAL FILL - SHAW ALLEY			28-Oct-16				RUCTURAL FILL - SHAW	
SW-106700 FIN	E GRADE - SHAW ALLEY	5	31-Oct-16	U4-NOV-16				INE GRADE - SHAW ALLE jramirez	: γ

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TG18.1 EXHIBIT I SCHEDULE



								JOINT VENTURE
vity ID	Activity Name	OD	Start	Finish	A OLO	2014 2015		2017 2018 DULLIVIA MALA JAI ON DULLIVIA MA
SW-106800	PEDESTRIAN PAVING REINFORCING - SHAW ALLEY	5	07 Nov 16	11-Nov-16	AS	NDJFMAMJJASZNDJFMAMJJAS		PEDESTRIAN PAVING REINFORCING
SW-106900	PEDESTRIAN PAVING KEINI OKOING - SHAW ALLEY PEDESTRIAN PAVING LAYOUT - SHAW ALLEY	5	14-Nov-16		_			PEDESTRIAN PAVING LAYOUT - SHA
SW-100900	EDGEFORM PEDESTRIAN PAVING: STAGE 1 - SHAW ALLEY	5	21-Nov-16	29-Nov-16	_			EDGEFORM PEDESTRIAN PAVING:
SW-107100	PLACE PEDESTRIAN PAVING; STAGE 1 - SHAW ALLEY	3		30-Nov-16	_			PLACE PEDESTRIAN PAVING: STAG
	STRIP EDGEFORM - SHAW ALLEY	1	30-Nov-16					<u> </u>
SW-107200	PLACE PEDESTRIAN PAVING: STAGE 2 - SHAW ALLEY	1	01-Dec-16 02-Dec-16	01-Dec-16 02-Dec-16	_			STRIP EDGEFORM - SHAW ALLEY PLACE PEDESTRIAN PAVING; STAC
	CURE TIME FOR PEDESTRIAN PAVING - SHAW ALLEY	14			_			CURE TIME FOR PEDESTRIAN PA
SW-107400	SANDBLAST PEDESTRIAN PAVING - SHAW ALLEY			22-Dec-16 30-Dec-16	_			_
		5	23-Dec-16					SANDBLAST PEDESTRIAN PAVIN
	IINNA (GRID LINES 10 - 18)	143	1 1 1 1 1	04-May-17			A (0	TARTI OLITE OLIVIII. OENTRAL MINIMA
SW-108000	(START) SITE CIVIL - CENTRAL MINNA	0	07-Oct-16		_		,	TART) SITE CIVIL - CENTRAL MINNA
SW-108100	PREP STRUCTURAL SLAB FOR WP - CENTRAL MINNA	5	07-Oct-16	14-Oct-16	_			RÉP STRUCTURAL SLAB FOR WP - C
SW-108200	WATERPROOFING GROUND LEVEL DECK - CENTRAL MINNA	15		04-Nov-16	_			WATERPROOFING GROUND LEVEL D
SW-108300	STRUCTURAL FILL - CENTRAL MINNA	5	07-Nov-16	_	_			STRUCTURAL FILL - CENTRAL MINN
SW-108400	CONC. STRUCTURAL SUB-SLAB/BOLLARD FOOTINGS - CENTRAL MINNA	15		06-Dec-16				CONC. STRUCTURAL SUB-SLAB/B
SW-108500	CURB & GUTTER - CENTRAL MINNA	5	30-Nov-16	06-Dec-16	_			CURB & GUTTER - CENTRAL MINN
SW-108700	IRRIGATION/SITE ELEC/DRAINAGE - CENTRAL MINNA	10		20-Dec-16	_			IRRIGATION/SITE ELEC/DRAINAG
SW-108600	TRANSIT BULB-IN - CENTRAL MINNA	10						TRANSIT BULB-IN - CENTRAL MIN
SW-108800	FINE GRADE - CENTRAL MINNA	5	21-Dec-16	_	_			FINE GRADE - CENTRAL MINNA
SW-109950	MINNA STREET AC PAVING	15		12-Jan-17				MINNA STREET AC PAVING
SW-108900	PEDESTRIAN PAVING REINFORCING - CENTRAL MINNA	5	29-Dec-16	05-Jan-17	_			PEDESTRIAN PAVING REINFOR
SW-109000	PEDESTRIAN PAVING LAYOUT - CENTRAL MINNA	15		27-Jan-17				PEDESTRIAN PAVING LAYOUT
SW-109100	EDGEFORM PEDESTRIAN PAVING; STAGE 1 - CENTRAL MINNA	10	1 1 1 1 1	10-Feb-17				EDGEFORM PEDESTRIAN PAR
SW-109200	PLACE PEDESTRIAN PAVING; STAGE 1 - CENTRAL MINNA	1	13-Feb-17	13-Feb-17	_			I PLACE PEDESTRIAN PAVING
SW-109300	STRIP EDGEFORM - CENTRAL MINNA	2	14-Feb-17	15-Feb-17				I STRIP EDGEFORM - CENTRA
SW-109400	PLACE PEDESTRIAN PAVING; STAGE 2 - CENTRAL MINNA	1	16-Feb-17	16-Feb-17				I PLACE PEDESTRIAN PAVING
SW-109500	CURE TIME FOR PEDESTRIAN PAVING - CENTRAL MINNA	14	17-Feb-17	09-Mar-17				CURE TIME FOR PEDESTRI.
SW-109600	SANDBLAST PEDESTRIAN PAVING - CENTRAL MINNA	10	10-Mar-17	23-Mar-17				■ SANDBLAST PEDESTRIAN
SW-109700	SET PRECAST PLANTERS/BUTTON BOLLARDS/SS BOLLARDS - CENTRAL MINNA	20	24-Mar-17	20-Apr-17				SET PRECAST PLANTER
SW-109800	WP PLANTERS/SOIL/PLANTING - CENTRAL MINNA	10	21-Apr-17	04-May-17				■ WP PLANTERS/SOIL/PL
SW-109900	SITE ELEC TRIM - CENTRAL MINNA	5	28-Apr-17	04-May-17				I SITE ELEC TRIM - CENT
CENTRAL N	ATOMA (GRID LINES 10 - 18)	158	30-Sep-16	18-May-17				
SW-110100	(START) SITE CIVIL - CENTRAL NATOMA	0	30-Sep-16				♦ (S ⁻	TART) SITE CIVIL - CENTRAL NATON
SW-110200	PREP STRUCTURAL SLAB FOR WP - CENTRAL NATOMA	10	30-Sep-16	14-Oct-16			■ P	REP STRUCTURAL SLAB FOR WP - (
SW-110300	WATERPROOFING GROUND LEVEL DECK - CENTRAL NATOMA	20	07-Oct-16	04-Nov-16				WATERPROOFING GROUND LEVEL
SW-110400	STRUCTURAL FILL - CENTRAL NATOMA	5	07-Nov-16	11-Nov-16			1	STRUCTURAL FILL - CENTRAL NATO
SW-110500	CONC. STRUCTURAL SUB-SLAB/BOLLARD FOOTINGS - CENTRAL NATOMA	20	14-Nov-16	13-Dec-16				CONC. STRUCTURAL SUB-SLAB/E
SW-110600	CURB & GUTTER - CENTRAL NATOMA	10	30-Nov-16	13-Dec-16			1	CURB & GUTTER - CENTRAL NAT
SW-110800	IRRIGATION/SITE ELEC/DRAINAGE - CENTRAL NATOMA	10	14-Dec-16	28-Dec-16				■ IRRIGATION/SITE ELEC/DRAINAG
SW-111000	FINE GRADE - CENTRAL NATOMA	5	29-Dec-16	05-Jan-17				FINE GRADE - CENTRAL NATOM
SW-111100	PEDESTRIAN PAVING REINFORCING - CENTRAL NATOMA	5	06-Jan-17	12-Jan-17				■ PEDESTRIAN PAVING REINFOR
SW-111200	PEDESTRIAN PAVING LAYOUT - CENTRAL NATOMA	15	13-Jan-17	03-Feb-17				■ PEDESTRIAN PAVING LAYOUT
SW-111300	EDGEFORM PEDESTRIAN PAVING; STAGE 1 - CENTRAL NATOMA	15	06-Feb-17	27-Feb-17				■ EDGEFORM PEDESTRIAN PA
SW-111400	PLACE PEDESTRIAN PAVING; STAGE 1 - CENTRAL NATOMA	1	28-Feb-17	28-Feb-17				I PLACE PEDESTRIAN PAVING
SW-111500	STRIP EDGEFORM - CENTRAL NATOMA	2	01-Mar-17	02-Mar-17				I STRIP EDGEFORM - CENTR
SW-111600	PLACE PEDESTRIAN PAVING; STAGE 2 - CENTRAL NATOMA	1	03-Mar-17	03-Mar-17				I PLACE PEDESTRIAN PAVING
SW-111700	CURE TIME FOR PEDESTRIAN PAVING - CENTRAL NATOMA	14	06-Mar-17	23-Mar-17				■ CURE TIME FOR PEDESTR
SW-111800	SANDBLAST PEDESTRIAN PAVING - CENTRAL NATOMA		24-Mar-17					■ SANDBLAST PEDESTRIAN
ut: Evhibit I				F				r: iramiroz

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TG18.1 EXHIBIT I SCHEDULE



								JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish		2014 2015	2016	2017 2018
					A S		JFMAMJJASONC	JFMAMJJAS ONDJFMAMJJ
SW-111900	SET PRECAST PLANTERS/BUTTON BOLLARDS/SS BOLLARDS - CENTRAL NATOMA	20	07-Apr-17	04-May-17				SET PRECAST PLANTERS/BU
SW-112000	WP PLANTERS/SOIL/PLANTING - CENTRAL NATOMA	10	05-May-17	18-May-17				■ WP PLANTERS/SOIL/PLANTII
SW-112100	SITE ELEC TRIM - CENTRAL NATOMA	5	12-May-17	18-May-17				SITE ELEC TRIM - CENTRAL
GRAND HA	L NORTH (GRID LINES 19 - 25)	150	04-Jan-17	09-Aug-17				
SW-112300	(START) SITE CIVIL - GRAND HALL NORTH	0	04-Jan-17		_			(START) SITE CIVIL - GRAND HALL NO
SW-112400	PREP STRUCTURAL SLAB FOR WP - GRAND HALL NORTH	15	04-Jan-17	25-Jan-17				PREP STRUCTURAL \$LAB FOR WP -
SW-112500	WATERPROOFING GROUND LEVEL DECK - GRAND HALL NORTH	20	11-Jan-17	08-Feb-17				■ WATERPROOFING GROUND LEVEL
SW-112600	STRUCTURAL FILL - GRAND HALL NORTH	10	09-Feb-17	23-Feb-17				STRUCTURAL FILL - GRAND HALL
SW-112700	CONC. BOLLARD FOOTINGS - GRAND HALL NORTH	15	24-Feb-17	16-Mar-17	_			CONC. BOLLARD FOOTINGS - GF
SW-112800	CURB & GUTTER - GRAND HALL NORTH	10	03-Mar-17	16-Mar-17	_			CURB & GUTTER - GRAND HALL
SW-112900	IRRIGATION/SITE ELEC/DRAINAGE - GRAND HALL NORTH	5	17-Mar-17	23-Mar-17	_			I IRRIGATION/SITE ELEC/DRAINA
SW-113000	FINE GRADE - GRAND HALL NORTH	5	24-Mar-17	30-Mar-17	_			FINE GRADE - GRAND HALL NO
SW-113100	PEDESTRIAN PAVING REINFORCING - GRAND HALL NORTH	10	31-Mar-17	13-Apr-17	_			PEDESTRIAN PAVING REINFOR
SW-113200	PEDESTRIAN PAVING LAYOUT - GRAND HALL NORTH	15	14-Apr-17	04-May-17	_			■ PEDESTRIAN PAVING LAYOU
SW-113300	EDGEFORM PEDESTRIAN PAVING: STAGE 1 - GRAND HALL NORTH	15	05-May-17	25-May-17	_			■ EDGEFORM PEDESTRIAN P
SW-113400	PLACE PEDESTRIAN PAVING; STAGE 1 - GRAND HALL NORTH	2	30-May-17		_			I PLACE PEDESTRIAN PAVIN
SW-113500	STRIP EDGEFORM - GRAND HALL NORTH	2	01-Jun-17	02-Jun-17	_			STRIP EDGEFORM - GRAND
SW-113600	PLACE PEDESTRIAN PAVING; STAGE 2 - GRAND HALL NORTH	2	05-Jun-17	02-3un-17 06-Jun-17	_			I PLACE PEDESTRIAN PAVIN
	· ·	14			_			CURE TIME FOR PEDESTI
SW-113700	CURE TIME FOR PEDESTRIAN PAVING - GRAND HALL NORTH		07-Jun-17	26-Jun-17	_			
SW-113800	SANDBLAST PEDESTRIAN PAVING - GRAND HALL NORTH	10	27-Jun-17	12-Jul-17	_			SANDBLAST PEDESTRIA
SW-113900	SS BOLLARDS - GRAND HALL NORTH	15	13-Jul-17	02-Aug-17	_			SS BOLLARDS - GRANT
SW-114100	SITE ELEC TRIM - GRAND HALL NORTH	5	03-Aug-17	09-Aug-17				■ SITE ELEC TRIM - GRA
	LL SOUTH (GRID LINES 19 - 25)	155	04-Jan-17	16-Aug-17				
SW-114300	(START) SITE CIVIL - GRAND HALL SOUTH	0	04-Jan-17		_		•	START) SITE CIVIL - GRAND HALL SO
SW-114400	PREP STRUCTURAL SLAB FOR WP - GRAND HALL SOUTH	15	04-Jan-17	25-Jan-17				PREP STRUCTURAL \$LAB FOR WP -
SW-114500	WATERPROOFING GROUND LEVEL DECK - GRAND HALL SOUTH	20	11-Jan-17	08-Feb-17				■ WATERPROOFING GROUND LEVEL
SW-114600	STRUCTURAL FILL - GRAND HALL SOUTH	10	09-Feb-17	23-Feb-17				STRUCTURAL FILL - GRAND HALL
SW-116300	TRANSIT BULB-IN - GRAND HALL SOUTH	10	24-Feb-17	09-Mar-17				■ TRANSIT BULB-IN - GRAND HALL
SW-114700	CONC. BOLLARD FOOTINGS - GRAND HALL SOUTH	20	24-Feb-17	23-Mar-17				CONC. BOLLARD FOOTINGS - G
SW-114800	CURB & GUTTER - GRAND HALL SOUTH	10	10-Mar-17	23-Mar-17				CURB & GUTTER - GRAND HALL
SW-116200	NATOMA & FIRST STREET AC PAVING	15	10-Mar-17	30-Mar-17				■ NATOMA & FIRST STREET AC P
SW-115000	FINE GRADE - GRAND HALL SOUTH	5	24-Mar-17	30-Mar-17				I FINE GRADE - GRAND HALL SO
SW-115100	PEDESTRIAN PAVING REINFORCING - GRAND HALL SOUTH	10	31-Mar-17	13-Apr-17				PEDESTRIAN PAVING REINFOR
SW-115200	PEDESTRIAN PAVING LAYOUT - GRAND HALL SOUTH	15	14-Apr-17	04-May-17				■ PEDESTRIAN PAVING LAYOU
SW-115300	EDGEFORM PEDESTRIAN PAVING; STAGE 1 - GRAND HALL SOUTH	15	05-May-17	25-May-17				■ EDGEFORM PEDESTRIAN P
SW-115400	PLACE PEDESTRIAN PAVING; STAGE 1 - GRAND HALL SOUTH	2	30-May-17	31-May-17				I PLACE PEDESTRIAN PAVIN
SW-115500	STRIP EDGEFORM - GRAND HALL SOUTH	2	01-Jun-17	02-Jun-17				I STRIP EDGEFORM - GRAND
SW-115600	PLACE PEDESTRIAN PAVING; STAGE 2 - GRAND HALL SOUTH	2	05-Jun-17	06-Jun-17				I PLACE PEDESTRIAN PAVIN
SW-115700	CURE TIME FOR PEDESTRIAN PAVING - GRAND HALL SOUTH	14	07-Jun-17	26-Jun-17				CURE TIME FOR PEDEST!
SW-115800	SANDBLAST PEDESTRIAN PAVING - GRAND HALL SOUTH	10	27-Jun-17	12-Jul-17				SANDBLAST PEDESTRIA
SW-115900	SS BOLLARDS - GRAND HALL SOUTH	20	13-Jul-17	09-Aug-17				SS BOLLARDS - GRANI
SW-116000	SITE ELEC TRIM - GRAND HALL SOUTH	5	10-Aug-17	16-Aug-17				■ SITE ELEC TRIM - GRA
	INAL (GRID LINES 27 - 35 & A-J)	162		28-Sep-17				
SW-116400	(START) SITE CIVIL - MUNI TERMINAL	0	06-Feb-17	,	_			♦ (START) SITE CIVIL - MUNI TERMINA
SW-116500	PREP STRUCTURAL SLAB FOR WP - MUNI TERMINAL	-	06-Feb-17	06-Mar-17	-			PREP STRUCTURAL SLAB FOR W
SW-116600	WATERPROOFING GROUND LEVEL DECK - MUNI TERMINAL	25	13-Feb-17	20-Mar-17	-			WATERPROOFING GROUND LEV
SW-116700	STRUCTURAL FILL - MUNI TERMINAL		21-Mar-17	10-Apr-17	-			STRUCTURAL FILL - MUNI TERI
	OTTOO TOTAL THE MOTH PERMITTEE	13	Zi Wiai-17	10 Apr-17			l learn	
Layout: Exhibit I							user:	jramirez

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTURE
' ID	Activity Name	OD	Start	Finish	A S D	2014 NDJFMAMJJJASIND	2015 D.J.F.M.A.M.J.J.A.S.D.N.I	2016 DUFMAMULIASIONE	2017
SW-118400	8" TRAFFIC SLAB (INTERIOR) - MUNI TERMINAL	15	11-Apr-17	01-May-17					8" TRAFFIC SLAB (I
SW-116800	CONC. BOLLARD FOOTINGS - MUNI TERMINAL		11-Apr-17	08-May-17					CONC. BOLLARD F
SW-117000	CURB & GUTTER - MUNI TERMINAL	20	· ·						CURB & GUTTER
SW-117200	FINE GRADE - MUNI TERMINAL(5)	5	01-Jun-17	07-Jun-17					FINE GRADE - MI
SW-117100	FREMONT & BEALE AC PAVING	15		21-Jun-17					☐ FREMONT & BE
SW-117300	PEDESTRIAN PAVING REINFORCING - MUNI TERMINAL	5	08-Jun-17	14-Jun-17					
SW-117400	PEDESTRIAN PAVING LAYOUT - MUNI TERMINAL	2	15-Jun-17	16-Jun-17					PEDESTRIAN PA
SW-117500	EDGEFORM PEDESTRIAN PAVING; STAGE 1 - MUNI TERMINAL	15		11-Jul-17					■ EDGEFORM P
SW-117600	PLACE PEDESTRIAN PAVING; STAGE 1 - MUNI (3)	2	12-Jul-17	13-Jul-17					I PLACE PEDES
SW-117700	STRIP EDGEFORM - MUNI TERMINAL	2	14-Jul-17	17-Jul-17					I STRIP EDGEF
SW-117800	PLACE PEDESTRIAN PAVING; STAGE 2 - MUNI (3)	5	18-Jul-17	24-Jul-17					
	CURE TIME FOR PEDESTRIAN PAVING - MUNI TERMINAL	15		14-Aug-17					■ CURE TIME
SW-118000	SANDBLAST PEDESTRIAN PAVING - MUNI TERMINAL(5)	5	15-Aug-17						■ SANDBLAS
SW-118100	SS BOLLARDS - MUNI TERMINAL		22-Aug-17		-				SS BOLLA
	SITE ELEC TRIM - MUNI TERMINAL(10)	11			-				■ SITE ELE
	RK - WATERPROOFING/LANDSCAPE/HARDSCAPE	534	<u> </u>	02-Nov-17					3 3
WEST (1-10)	- WATERI ROOF INO/LARDOOAI E/HARDOOAI E		10-Sep-15						
ROUGH LAN	IDSCAPING	451	-	05-Jul-17					
_	2PLY PVC WATERPROOFING - STAGE 1 (WEST)	20		07-Oct-15			□ 2P	LY PVC WATERPROOFING	- STAGE 1 (WEST)
WP-121300	PROTECTION SLAB - STAGE 1 (WEST)	5	-	15-Oct-15				ROTECTION SLAB - STAGE	, ,
WP-141500	2PLY PVC WATERPROOFING - STAGE 2 (WEST)	20	_	05-Nov-15				PLY PVC WATERPROOFII	,
WP-121400	CMU WALLS / SUPPORTS - STAGE 1 (WEST)	20	16-Oct-15	12-Nov-15	-			CMU WALLS / SUPPORTS	
WP-121700	ROUGH WATERFEATURE (WEST)	20	16-Oct-15	12-Nov-15	-			ROUGH WATERFEATURE	, ,
WP-142900	PROTECTION SLAB - STAGE 2 (WEST)	5	06-Nov-15		-			PROTECTION SLAB - STAG	,
WP-141600	2PLY PVC WATERPROOFING - STAGE 3 (WEST)	20	06-Nov-15		-			2PLY PVC WATERPROO	, ,
■ WP-143100	CMU WALLS / SUPPORTS - STAGE 2 (WEST)	20	13-Nov-15					CMU WALLS / SUPPORT	` '
■ WP-143000	PROTECTION SLAB - STAGE 3 (WEST)	5	08-Dec-15		-			PROTECTION SLAB - ST	, ,
WP-121800	PLACE LARGE TREES (WEST)	20			-			PLACE LARGE TREES	
WP-143200	CMU WALLS / SUPPORTS - STAGE 3 (WEST)	20		14-Jan-16	-			CMU WALLS / SUPPO	` '
	GEOSYNTHETIC FILL (WEST)	20		12-Feb-16	-		'	■ GEOSYNTHETIC FIL	, ,
	MEP ROUGH (WEST)	20	25-Jan-16					■ MEP ROUGH (WES	
	SUBSLABS AND FOOTINGS (WEST)		23-Feb-16		-			SUBSLABS AND F	'
	PATCH ROOF @ CRANE PEDESTALS - WEST		13-Jun-17						PATCH ROOF
TINISH LAND				02-Aug-17					
PERIMETER			22-Mar-16						
	LINTEL SUPPORTS (PERIMETER WALK - WEST)		22-Mar-16					□ LINTEL SLIPPOE	RTS (PERIMETER WALK - WES
	ELECTRICAL (PERIMETER WALK - WEST)		12-Apr-16	· ·	-				PERIMETER WALK - WEST)
	STONE HEADER (PERIMETER WALK - WEST)		26-Apr-16	23-Apr-16	-				DER (PERIMETER WALK - WES
	RESIN PAVING (PERIMETER WALK - WEST)		24-May-16		-				ING (PERIMETER WALK - WES
	GUARD RAILS (PERIMETER WALK - WEST)		16-Jun-16		-				AILS (PERIMETER WALK - WE
	WOOD BENCHES (PERIMETER WALK - WEST)		15-Jul-16	28-Jul-16					BENCHES (PERIMETER WALK
	ļ '			02-Aug-17				■ WOOD E	PETAOTICO (I CIXIIVICI EIX VVACA.
BOTANIC G								EILTED EARDIO	(DOTANIC CARDENC MECT)
	FILTER FABRIC (BOTANIC GARDENS - WEST)		22-Mar-16	· ·	-				(BOTANIC CARDENS - WEST)
	SUB DRAINAGE (BOTANIC GARDENS - WEST)		12-Apr-16	-	-				E (BOTANIC GARDENS - WEST
	SAND DRAINAGE LAYER (BOTANIC GARDENS - WEST)			23-May-16					AGE LAYER (BOTANIC GARDE
WP-126500	PLANTING BED SOIL (BOTANIC GARDENS - WEST)	15	24-May-16	15-Jun-16				■ PLANTING	BED SOIL (BOTANIC GARDENS

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
y ID	Activity Name	OD	Start	Finish	A S O	2014 NDJFMAMJJASDNDJ	2015 	2016 		2018
WP-126600	IRRIGATION (BOTANIC GARDENS - WEST)	15	16-Jun-16	07-Jul-16					N (BOTANIC GARDENS -	
	ELECTRICAL (BOTANIC GARDENS - WEST)		08-Jul-16	28-Jul-16	-				CAL (BOTANIC GARDENS	· ·
	PLANTING (BOTANIC GARDENS - WEST)		29-Jul-16	18-Aug-16	-				NG (BOTANIC GARDENS	1
	AGGREGATE MULCH (BOTANIC GARDENS - WEST)	15		12-Sep-16	-				REGATE MULCH (BOTANI)	
l——————	FINALIZE ROOF @ CRANE PEDESTALS - WEST		06-Jul-17	02-Aug-17	+				FINALIZI	
GREAT LAV			22-Mar-16							
	FILTER FABRIC (GREAT LAWN - WEST)			28-Mar-16	4			FILTER FABRIC (GREAT LAWN - WEST)	
	SUB DRAINAGE (GREAT LAWN - WEST)	10		11-Apr-16	-			,	(GREAT LAWN - WEST)	
	SAND DRAINAGE LAYER (GREAT LAWN - WEST)	5	12-Apr-16	18-Apr-16	-				E LAYER (GREAT LAWN -	-WEST)
	LILY POND CONCRETE (GREAT LAWN - WEST)	20	19-Apr-16	16-May-16	-				NCRETE (GREAT LAWN	
	LILY POND PLUMBING / ELECTRICAL (GREAT LAWN - WEST)	10	•	01-Jun-16	-				LUMBING / ELECTRICAL	
	LILY POND WATERPROOFING (GREAT LAWN - WEST)	15	-		-				WATERPROOFING (GREAT	1
	PLANTING BED SOIL (GREAT LAWN - WEST)	10	16-Jun-16	29-Jun-16	-				BED SOIL (GREAT LAWN	
I— [—] ———	STONE COPING (GREAT LAWN - WEST)	20	23-Jun-16	21-Jul-16	-				OPING (GREAT LAWN - W	'
	IRRIGATION (GREAT LAWN - WEST)	5	30-Jun-16	07-Jul-16	+				N (GREAT LAWN - WEST	<u> </u>
	ELECTRICAL (GREAT LAWN - WEST)	10	08-Jul-16	21-Jul-16	-				CAL (GREAT LAWN - WES	1
	STONE STAIRS (GREAT LAWN - WEST)	-	22-Jul-16	18-Aug-16	-				STAIRS (GREAT LAWN -	'
	PLANTING (GREAT LAWN - WEST)	10	19-Aug-16		-				ING (GREAT LAWN - WES	1
	AGGREGATE MULCH (GREAT LAWN - WEST)		06-Sep-16		-				REGATE MULCH (GREAT	
WEST EAR			22-Mar-16						TECHNELING CONTENT	
. 	FILTER FABRIC (WEST EARTH MOUND - WEST)		22-Mar-16		1 1			■ FILTER FABRIC (WEST EARTH MOUND - V	WEST)
	SUB DRAINAGE (WEST EARTH MOUND - WEST)		05-Apr-16	25-Apr-16	-				(WEST EARTH MOUND -	'
I——	SAND DRAINAGE LAYER (WEST EARTH MOUND - WEST)		26-Apr-16	09-May-16	-				GE LAYER (WEST EARTH	'
	PLANTING BED SOIL (WEST EARTH MOUND - WEST)		10-May-16		-				ED SOIL (WEST EARTH M	
L	IRRIGATION (WEST EARTH MOUND - WEST)		02-Jun-16	15-Jun-16	+				(WEST EARTH MOUND -	-
	ELECTRICAL (WEST EARTH MOUND - WEST)	10		29-Jun-16	-				AL (WEST EARTH MOUND	'
<u> </u>	PLANTING (WEST EARTH MOUND - WEST)	15		21-Jul-16	-				G (WEST EARTH MOUND	1 '
	AGGREGATE MULCH (WEST EARTH MOUND - WEST)	10	22-Jul-16	04-Aug-16	-				SATE MULCH (WEST EAR	1
CENTRAL (10			22-Dec-15					_	,	
ROUGH LAN	- ·		22-Dec-15							
WP-110300	2PLY PVC WATERPROOFING - STAGE 1 (CENTRAL)	20		22-Jan-16	4		-	2PLY PVC WATERPRO	 DOFING - STAGE 1 (CENT	RAL)
WP-140800	PROTECTION SLAB - STAGE 1 (CENTRAL)	5	25-Jan-16		-		•	PROTECTION SLAB -	,	((12)
WP-141700	2PLY PVC WATERPROOFING - STAGE 2 (CENTRAL)	20	25-Jan-16		-				ROOFING - STAGE 2 (CEI	NTRAL)
WP-140900	CMU WALLS / SUPPORTS - STAGE 1 (CENTRAL)	30	_	14-Mar-16	-				PORTS - STAGE 1 (CENT	'
WP-143300	PROTECTION SLAB - STAGE 2 (CENTRAL)	5	23-Feb-16		+				3 - STAGE 2 (CENTRAL)	(/ (L)
WP-141800	2PLY PVC WATERPROOFING - STAGE 3 (CENTRAL)	20	23-Feb-16		-				PROOFING - STAGE 3 (C	ENTRAL
WP-143500	CMU WALLS / SUPPORTS - STAGE 2 (CENTRAL)	30	01-Mar-16		-				JPPORTS - STAGE 2 (CEN	
WP-143400	PROTECTION SLAB - STAGE 3 (CENTRAL)	5	22-Mar-16	·	- 1				AB - STAGE 3 (CENTRAL)	1 ′
WP-141100	PLACE LARGE TREES (CENTRAL)	30		09-May-16	-			_	TREES (CENTRAL)	
WP-141000	ROUGH WATERFEATURE (CENTRAL)	30	29-Mar-16		+				RFEATURE (CENTRAL)	
WP-143600	CMU WALLS / SUPPORTS - STAGE 3 (CENTRAL)	30		09-May-16	-				SUPPORTS - STAGE 3 (C	ENTRAL)
WP-141200	GEOSYNTHETIC FILL (CENTRAL)	30		22-Jun-16	- 1				ETIC FILL (CENTRAL)	
WP-141300	MEP ROUGH (CENTRAL)	30	-	29-Jun-16	-			MEP ROUG	` '	
WP-141400	SUBSLABS AND FOOTINGS (CENTRAL)	30	-		- 1				BS AND FOOTINGS (CEN	NTRAL)
RC-300900	PATCH ROOF @ CRANE PEDESTALS - CENTRAL			12-Sep-17	-				PATC	
	DSCAPING			11-Oct-17	=				,	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

Page: 72 of 86

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

								JOINT VENTURE
ctivity ID	Activity Name	OD	Start	Finish		2014 2015 2016		2017 2018
					AS		ASJN	
PERIMETE	R WALK	120	12-Aug-16	07-Feb-17				
WP-123300	LINTEL SUPPORTS (PREIMETER WALK - CENTRAL)	20	12-Aug-16	12-Sep-16			LIN ⁷	TEL SUPPORTS (PREIMETER WALK - CE
WP-124400	ELECTRICAL (PREIMETER WALK - CENTRAL)	15	13-Sep-16	03-Oct-16			EL_	ECTRICAL (PREIMETER WALK - CENTR
WP-123400	STONE HEADER (PREIMETER WALK - CENTRAL)	25	04-Oct-16	08-Nov-16				STONE HEADER (PREIMETER WALK - (
WP-123500	RESIN PAVING (PREIMETER WALK - CENTRAL)	20	09-Nov-16	08-Dec-16				RESIN PAVING (PREIMETER WALK -
WP-123600	GUARD RAILS (PREIMETER WALK - CENTRAL)	25	09-Dec-16	17-Jan-17				GUARD RAILS (PREIMETER WALK
■ WP-123700	WOOD BENCHES (PREIMETER WALK - CENTRAL)	15	18-Jan-17	07-Feb-17				■ WOOD BENCHES (PREIMETER \
MEADOW I	LAWN	80	12-Aug-16	08-Dec-16				
■ WP-127800	FILTER FABRIC (MEADOW LAWN - CENTRAL)	10	12-Aug-16	25-Aug-16			■ FILTF	ER FABRIC (MEADOW LAWN - CENTRA
■ WP-127900	SUB DRAINAGE (MEADOW LAWN - CENTRAL)	10	26-Aug-16	12-Sep-16			SUF	B DRAINAGE (MEADOW LAWN - CENTR
■ WP-128000	SAND DRAINAGE LAYER (MEADOW LAWN - CENTRAL)	10	13-Sep-16	26-Sep-16			■ SA	ND DRAINAGE LAYER (MEADOW LAW
WP-128100	PLANTING BED SOIL (MEADOW LAWN - CENTRAL)	10	<u> </u>				■ P'	LANTING BED SOIL (MEADOW LAWN -
■ WP-128200	,	10	· ·	25-Oct-16	_			RRIGATION (MEADOW LAWN - CENTR
■ WP-128300	, , , , , , , , , , , , , , , , , , ,	10	26-Oct-16	08-Nov-16				ELECTRICAL (MEADOW LAWN - CENT
	PLANTING (MEADOW LAWN - CENTRAL)	10		22-Nov-16	_			PLANTING (MEADOW LAWN - CENTR
	AGGREGATE MULCH (MEADOW LAWN - CENTRAL)	10			_			AGGREGATE MULCH (MEADOW LA
BUS FOUN	,		12-Aug-16				_	, restriction (in the service)
	ROUGH PLUMBING (BUS FOUNTAIN - CENTRAL)		12-Aug-16				■ POU	│ GH PLUMBING (BUS FOUNTAIN - CEN
	ROUGH ELECTRICAL (BUS FOUNTAIN - CENTRAL)		26-Aug-16	-				JGH ELECTRICAL (BUS FOUNTAIN - C
					_			
	SET PRECAST BASIN (BUS FOUNTAIN - CENTRAL)	20	13-Sep-16		_			ET PRECAST BASIN (BUS FOUNTAIN -
	WATERPROOFING (BUS FOUNTAIN - CENTRAL)	20	12-Oct-16	08-Nov-16	_			WATERPROOFING (BUS FOUNTAIN - (
WP-138200	· ·	10	1 1 1 1	22-Nov-16	_			FINISH PLUMBING (BUS FOUNTAIN -
WP-138300	,	10	23-Nov-16		_			FINISH ELECTRICAL (BUS FOUNTAI
	GLASS WALL PANEL (BUS FOUNTAIN - CENTRAL)	15	_	30-Dec-16	_			GLASS WALL PANEL (BUS FOUNT
	TESTING / START-UP (BUS FOUNTAIN - CENTRAL)		03-Jan-17					TESTING / START-UP (BUS FOU
PALM CIRC	<u>CLE</u>	90	23-Nov-16	05-Apr-17				
WP-127000	FILTER FABRIC (PALM CIRCLE - CENTRAL)	10	23-Nov-16	08-Dec-16			₽	FILTER FABRIC (PALM CIRCLE - CE
WP-127100	SUB DRAINAGE (PALM CIRCLE - CENTRAL)	10	09-Dec-16	22-Dec-16				SUB DRAINAGE (PALM CIRCLE - C
■ WP-127200	SAND DRAINAGE LAYER (PALM CIRCLE - CENTRAL)	10	23-Dec-16	09-Jan-17				SAND DRAINAGE LAYER (PALM C
■ WP-127300	PLANTING BED SOIL (PALM CIRCLE - CENTRAL)	10	10-Jan-17	24-Jan-17				■ PLANTING BED SOIL (PALM CIR
WP-127400	IRRIGATION (PALM CIRCLE - CENTRAL)	10	25-Jan-17	07-Feb-17				■ IRRIGATION (PALM CIRCLE - CI
WP-127500	ELECTRICAL (PALM CIRCLE - CENTRAL)	10	08-Feb-17	22-Feb-17				■ ELECTRICAL (PALM CIRCLE -
■ WP-137600	GUARD RAIL (PALM CIRCLE - CENTRAL)	10	23-Feb-17	08-Mar-17				■ GUARD RAIL (PALM CIRCLE -
■ WP-127600	PLANTING (PALM CIRCLE - CENTRAL)	10	09-Mar-17	22-Mar-17				■ PLANTING (PALM CIRCLE - C
WP-127700	AGGREGATE MULCH (PALM CIRCLE - CENTRAL)	10	23-Mar-17	05-Apr-17				■ AGGREGATE MULCH (PALM
NORTH AR	RIVAL GROVE	80	09-Dec-16	05-Apr-17				
	FILTER FABRIC (NORTH ARRIVAL GROVE - CENTRAL)	10	09-Dec-16	22-Dec-16	-			■ FILTER FABRIC (NORTH ARRIVAL (
	SUB DRAINAGE (NORTH ARRIVAL GROVE - CENTRAL)	10		_				SUB DRAINAGE (NORTH ARRIVAL
	SAND DRAINAGE LAYER (NORTH ARRIVAL GROVE - CENTRAL)	10		24-Jan-17				SAND DRAINAGE LAYER (NORTH
	PLANTING BED SOIL (NORTH ARRIVAL GROVE - CENTRAL)		25-Jan-17	07-Feb-17				■ PLANTING BED SOIL (NORTH A
	IRRIGATION (NORTH ARRIVAL GROVE - CENTRAL)	10		22-Feb-17				■ IRRIGATION (NORTH ARRIVAL
	ELECTRICAL (NORTH ARRIVAL GROVE - CENTRAL)	10		08-Mar-17	-			■ ELECTRICAL (NORTH ARRIVA
	PLANTING (NORTH ARRIVAL GROVE - CENTRAL)	10		22-Mar-17	-			PLANTING (NORTH ARRIVAL
	AGGREGATE MULCH (NORTH ARRIVAL GROVE - CENTRAL)		23-Mar-17	05-Apr-17				AGGREGATE MULCH (NORT
				<u> </u>				ACCINEDATE MOLOTI (NOR
	RIVAL GROVE		09-Dec-16					Ell TED EADDIO (SOUTH A DE II)
WP-129400	FILTER FABRIC (SOUTH ARRIVAL GROVE - CENTRAL)	10	09-Dec-16	22-Dec-16				FILTER FABRIC (SOUTH ARRIVAL G

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

										JOINT VENTU	RE
Activity ID	Activity Name	OD	Start	Finish	AlelOl	ND		2015 TEMAM THASDING	2016 5 J F M A M J J A S O N		2018
WP-129500	SUB DRAINAGE (SOUTH ARRIVAL GROVE - CENTRAL)	10	23-Dec-16	09-Jan-17	799	17	JFMAMJJASZND		7911111111111111111	SUB DRAINAGE (SOL	
	SAND DRAINAGE LAYER (SOUTH ARRIVAL GROVE - CENTRAL)	10		24-Jan-17	_					SAND DRAINAGE LA	
	PLANTING BED SOIL (SOUTH ARRIVAL GROVE - CENTRAL)		25-Jan-17	07-Feb-17						■ PLANTING BED SC	1
	IRRIGATION (SOUTH ARRIVAL GROVE - CENTRAL)	10	08-Feb-17	22-Feb-17	_					■ IRRIGATION (SOL	1,
	ELECTRICAL (SOUTH ARRIVAL GROVE - CENTRAL)	10	23-Feb-17	08-Mar-17	_					■ ELECTRICAL (SC	
	PLANTING (SOUTH ARRIVAL GROVE - CENTRAL)	10	09-Mar-17	22-Mar-17	_					■ PLANTING (SOU	
	AGGREGATE MULCH (SOUTH ARRIVAL GROVE - CENTRAL)		23-Mar-17	05-Apr-17	_					■ AGGREGATE N	1
NORTH BA	,		09-Dec-16	·							102011 (00011
	FILTER FABRIC (NORTH BAMBOO GROVE - CENTRAL)			22-Dec-16						FILTER FABRIC (NOR	TH BAMBOO G
<u> </u>	SUB DRAINAGE (NORTH BAMBOO GROVE - CENTRAL)		23-Dec-16	09-Jan-17	_					SUB DRAINAGE (NOI	
	,	10	10-Jan-17	24-Jan-17	_					SAND DRAINAGE LA	
	PLANTING BED SOIL (NORTH BAMBOO GROVE - CENTRAL)	10	25-Jan-17	07-Feb-17	_					PLANTING BED SC	`
WP-130600	IRRIGATION (NORTH BAMBOO GROVE - CENTRAL)	10	08-Feb-17	22-Feb-17						■ IRRIGATION (NOF	,
	ELECTRICAL (NORTH BAMBOO GROVE - CENTRAL)		23-Feb-17	08-Mar-17	_					■ ELECTRICAL (NO	
	PLANTING (NORTH BAMBOO GROVE - CENTRAL)	10	09-Mar-17	22-Mar-17	-					PLANTING (NOF	
	AGGREGATE MULCH (NORTH BAMBOO GROVE - CENTRAL)	10	23-Mar-17	05-Apr-17	-					■ AGGREGATE N	
	MBOO GROVE	-	09-Dec-16	·						AGGREGATE	NOLCH (NORTI
	FILTER FABRIC (SOUTH BAMBOO GROVE - CENTRAL)		09-Dec-16							■ FILTER FABRIC (SOU	
	SUB DRAINAGE (SOUTH BAMBOO GROVE - CENTRAL)	10	23-Dec-16		_					,	
	,	10			_					SUB DRAINAGE (SOL	
	SAND DRAINAGE LAYER (SOUTH BAMBOO GROVE - CENTRAL)		10-Jan-17	24-Jan-17 07-Feb-17	_					SAND DRAINAGE LA	,
	PLANTING BED SOIL (SOUTH BAMBOO GROVE - CENTRAL)		25-Jan-17 08-Feb-17	22-Feb-17	_					PLANTING BED SC	1,
	IRRIGATION (SOUTH BAMBOO GROVE - CENTRAL)	10								IRRIGATION (SOL	
	ELECTRICAL (SOUTH BAMBOO GROVE - CENTRAL)	10		08-Mar-17	_					■ ELECTRICAL (SC	
	PLANTING (SOUTH BAMBOO GROVE - CENTRAL)	10	09-Mar-17	22-Mar-17	_					PLANTING (SOU	
	AGGREGATE MULCH (SOUTH BAMBOO GROVE - CENTRAL)		23-Mar-17 12-Aug-16	05-Apr-17 05-Apr-17						■ AGGREGATE N	NULCH (SOUTE
BOTANIC G		100								ED EADDIC (DOTANIC C	ADDENIC CENT
	FILTER FABRIC (BOTANIC CARDENS - CENTRAL)	20	12-Aug-16	-						ER FABRIC (BOTANIC GA	
	SUB DRAINAGE (BOTANIC GARDENS - CENTRAL) SAND DRAINAGE LAYER (BOTANIC GARDENS - CENTRAL)	20	13-Sep-16		_					JB DRAINAGE (BOTANIC SAND DRAINAGE LAYER	1
	,	20	12-Oct-16	08-Nov-16	_						`
	PLANTING BED SOIL (BOTANIC GARDENS - CENTRAL)	20		08-Dec-16	_					PLANTING BED SOIL (E	
	IRRIGATION (BOTANIC GARDENS - CENTRAL)		09-Dec-16		_					IRRIGATION (BOTAN	1
	ELECTRICAL (BOTANIC CARDENS - CENTRAL)		10-Jan-17	07-Feb-17	_					ELECTRICAL (BOT	
	PLANTING (BOTANIC GARDENS - CENTRAL)		08-Feb-17	08-Mar-17	_					PLANTING (BOTA	
	AGGREGATE MULCH (BOTANIC GARDENS - CENTRAL)		09-Mar-17 01-Feb-17	05-Apr-17						■ AGGREGATE N	NOLCH (BOTAN
PLAY AREA										TOTAL DO AIN (
	TRENCH DRAIN (PLAY AREA - CENTRAL)			14-Feb-17	_					TRENCH DRAIN (P	
	STONE WALL (PLAY AREA - CENTRAL)		15-Feb-17	01-Mar-17						STONE WALL (PL	
	STONE HEADER (PLAY AREA - CENTRAL)	10		15-Mar-17	_					STONE HEADER	`
	TREE GRATES AND EMBEDS (PLAY AREA - CENTRAL)		16-Mar-17	29-Mar-17	_					■ TREE GRATES	
	PLAY AREA SURFACING (PLAY AREA - CENTRAL)		30-Mar-17	19-Apr-17	_					PLAY AREA S	,
	PLAY STRUCTURE (PLAY AREA - CENTRAL)		20-Apr-17	10-May-17						■ PLAY STRU	JIUKE (PLAY A
CAFE PLAZ			06-Apr-17	25-Jul-17							
	SLOT DRAIN (NORTH CAFE PLAZA - CENTRAL)		06-Apr-17	19-Apr-17	_					SLOT DRAIN (·
	STONE HEADER (NORTH CAFE PLAZA - CENTRAL)		20-Apr-17	03-May-17	_					STONE HEAD	'
	TREE GRATES AND EMBEDS (NORTH CAFE PLAZA - CENTRAL)		04-May-17		_					TREE GRAT	
W P-139400	COBBLE STONE PAVING (NORTH CAFE PLAZA - CENTRAL)	20	18-May-17	16-Jun-17						COBBLE S	STONE PAVING

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER



TG18.1 EXHIBIT I SCHEDULE

A ativity (ID	Activity Nome		Ctort	Tiniah			2014	2016	2017 2018
Activity ID	Activity Name	OD	Start	Finish	ASC	ואכ	2014 2015 		
■ WP-139500	BENCHES (NORTH CAFE PLAZA - CENTRAL)	5	19-Jun-17	23-Jun-17					BENCHES (NORTH CAFE
■ WP-139600	EXPANSION JOINT (NORTH CAFE PLAZA - CENTRAL)	20	26-Jun-17	25-Jul-17		ı			EXPANSION JOINT (NO
CAFE PLAZ	A - SOUTH	128	06-Apr-17	11-Oct-17					
WP-140200	SLOT DRAIN (SOUTH CAFE PLAZA - CENTRAL)	10	06-Apr-17	19-Apr-17					SLOT DRAIN (SOUTH CAFE F
	STONE HEADER (SOUTH CAFE PLAZA - CENTRAL)	10	20-Apr-17	03-May-17					STONE HEADER (SOUTH CA
	TREE GRATES AND EMBEDS (SOUTH CAFE PLAZA - CENTRAL)	10	04-May-17	17-May-17	_				■ TREE GRATES AND EMBE
■ WP-139900	COBBLE STONE PAVING (SOUTH CAFE PLAZA - CENTRAL)	20	18-May-17	16-Jun-17					COBBLE STONE PAVING
	BENCHES (SOUTH CAFE PLAZA - CENTRAL)	5	19-Jun-17	23-Jun-17	_				BENCHES (SOUTH CAFE
	EXPANSION JOINT (SOUTH CAFE PLAZA - CENTRAL)	20	26-Jun-17	25-Jul-17					EXPANSION JOINT (SO
	FINALIZE ROOF @ CRANE PEDESTALS - CENTRAL	20	13-Sep-17	11-Oct-17	_				FINALIZE ROOF
EAST (25-35)		341	21-Jun-16	02-Nov-17					
ROUGH LAN	DSCAPING		21-Jun-16	12-Sep-17		H			
	2PLY PVC WATERPROOFING - STAGE 1 (EAST)	_	21-Jun-16	19-Jul-16				2DI V DVO	WATERPROOFING - STAGE 1 (EAST)
	• •	5	20-Jul-16	26-Jul-16	_				ION SLAB - STAGE 1 (EAST)
	PROTECTION SLAB - STAGE 1 (EAST)			_	_				` '
	2PLY PVC WATERPROOFING - STAGE 2 (EAST)	20	20-Jul-16	16-Aug-16	_				C WATERPROOFING - STAGE 2 (EAST
	CMU WALLS / SUPPORTS - STAGE 1 (EAST)	30	27-Jul-16	08-Sep-16					/ALLS / SUPPORTS - STAGE 1 (EAST)
	PROTECTION SLAB - STAGE 2(EAST)	5	17-Aug-16	23-Aug-16	_				CTION SLAB - STAGE 2(EAST)
	2PLY PVC WATERPROOFING - STAGE 3 (EAST)	20	17-Aug-16	15-Sep-16	_				PVC WATERPROOFING - STAGE 3 (EA
	CMU WALLS / SUPPORTS - STAGE 2 (EAST)	30	24-Aug-16	06-Oct-16					WALLS / SUPPORTS - STAGE 2 (EAST
	PROTECTION SLAB - STAGE 3 (EAST)	5	16-Sep-16	22-Sep-16	_				ECTION SLAB - STAGE 3 (EAST)
	PLACE LARGE TREES (EAST)	30	23-Sep-16	04-Nov-16					ACE LARGE TREES (EAST)
	ROUGH WATERFEATURE (EAST)	30	23-Sep-16	04-Nov-16	_				UGH WATERFEATURE (EAST)
	CMU WALLS / SUPPORTS - STAGE 3 (EAST)	30	23-Sep-16	04-Nov-16	_				U WALLS / SUPPORTS - STAGE 3 (EA
	GEOSYNTHETIC FILL (EAST)	30			_				GEOSYNTHETIC FILL (EAST)
	MEP ROUGH (EAST)	30	14-Nov-16	28-Dec-16	_				MEP ROUGH (EAST)
	SUBSLABS AND FOOTINGS (EAST)	30	29-Dec-16	10-Feb-17		_		-	SUBSLABS AND FOOTINGS (EAS
	PATCH ROOF @ CRANE PEDESTALS - EAST		21-Aug-17	12-Sep-17					PATCH ROOF @ C
FINISH LAND		181	13-Feb-17	02-Nov-17					
PERIMETER	WALK	90	13-Feb-17	21-Jun-17					
■ WP-123800	LINTEL SUPPORTS (PERIMETER WALK - EAST)	15	13-Feb-17	06-Mar-17					■ LINTEL SUPPORTS (PERIMETER
■ WP-124500	ELECTRICAL (PERIMETER WALK - EAST)	10	07-Mar-17	20-Mar-17					■ ELECTRICAL (PERIMETER WAI
■ WP-123900	STONE HEADER (PERIMETER WALK - EAST)	20	21-Mar-17	17-Apr-17					STONE HEADER (PERIMETEI
■ WP-124000	RESIN PAVING (PERIMETER WALK - EAST)	15	18-Apr-17	08-May-17					■ RESIN PAVING (PERIMETER
■ WP-124100	GUARD RAILS (PERIMETER WALK - EAST)	20	09-May-17	07-Jun-17					GUARD RAILS (PERIMETE
WP-124200	WOOD BENCHES (PERIMETER WALK - EAST)	10	08-Jun-17	21-Jun-17					■ WOOD BENCHES (PERIN
CIRCULAR I	PLANTERS	100	13-Feb-17	07-Jul-17					
■ WP-136600	FILTER FABRIC (CIRCULAR PLANTERS - EAST)	10	13-Feb-17	27-Feb-17		ı			■ FILTER FABRIC (CIRCULAR PLAI
■ WP-136700	SUB DRAINAGE (CIRCULAR PLANTERS - EAST)	10	28-Feb-17	13-Mar-17					SUB DRAINAGE (CIRCULAR PLA
■ WP-136800	SAND DRAINAGE LAYER (CIRCULAR PLANTERS - EAST)	10	14-Mar-17	27-Mar-17					SAND DRAINAGE LAYER (CIRC
■ WP-136900	PLANTING BED SOIL (CIRCULAR PLANTERS - EAST)	10	28-Mar-17	10-Apr-17					■ PLANTING BED \$0IL (CIRCUL
■ WP-137000	IRRIGATION (CIRCULAR PLANTERS - EAST)	10	11-Apr-17	24-Apr-17					■ IRRIGATION (CIRCULAR PLA
■ WP-137100	ELECTRICAL (CIRCULAR PLANTERS - EAST)	10	25-Apr-17	08-May-17		ı			■ ELECTRICAL (CIRCULAR PL
■ WP-137400	STONE HEADER (CIRCULAR PLANTERS - EAST)	10	09-May-17	22-May-17					STONE HEADER (CIRCULA
■ WP-137500	WOOD DECK (CIRCULAR PLANTERS - EAST)	10	23-May-17	07-Jun-17					■ WOOD DECK (CIRCULAR
■ WP-137200	PLANTING (CIRCULAR PLANTERS - EAST)	10	08-Jun-17	21-Jun-17					PLANTING (CIRCULAR P
■ WP-137300	AGGREGATE MULCH (CIRCULAR PLANTERS - EAST)	_		07-Jul-17					■ AGGREGATE MULCH (C

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

							 JOINT VENTURE
ID	Activity Name	OD	Start	Finish	AGD	2015 2014 2015 AND JEWAN HANNER ON THE WARNER ON THE WARNE	
□ GRFY WAT	I ER GARDEN NORTH	80	10-Jul-17	01-Nov-17	٦١٩٩		
	FILTER FABRIC (GREY WATER GARDEN NORTH - EAST)		10-Jul-17	21-Jul-17			■ FILTER FABRIC (GRE
	SUB DRAINAGE (GREY WATER GARDEN NORTH - EAST)		24-Jul-17	04-Aug-17	-		■ SUB DRAINAGE (GR
	SAND DRAINAGE LAYER (GREY WATER GARDEN NORTH - EAST)		07-Aug-17	18-Aug-17	-		SAND DRAINAGE L
	PLANTING BED SOIL (GREY WATER GARDEN NORTH - EAST)		21-Aug-17	05-Sep-17			■ PLANTING BED S
	IRRIGATION (GREY WATER GARDEN NORTH - EAST)		06-Sep-17	19-Sep-17			■ IRRIGATION (GF
	ELECTRICAL (GREY WATER GARDEN NORTH - EAST)		20-Sep-17	03-Oct-17			■ ELECTRICAL (
	PLANTING (GREY WATER GARDEN NORTH - EAST)		04-Oct-17	18-Oct-17			PLANTING (G
	AGGREGATE MULCH (GREY WATER GARDEN NORTH - EAST)	10		01-Nov-17			■ AGGREGATE
L	ER GARDEN SOUTH	80	10-Jul-17	01-Nov-17			
_ 	FILTER FABRIC (GREY WATER GARDEN SOUTH - EAST)	10	10-Jul-17	21-Jul-17			■ FILTER FABRIC (GR
	SUB DRAINAGE (GREY WATER GARDEN SOUTH - EAST)		24-Jul-17	04-Aug-17	-		SUB DRAINAGE (G
	SAND DRAINAGE LAYER (GREY WATER GARDEN SOUTH - EAST)		07-Aug-17	18-Aug-17			SAND DRAINAGE
	PLANTING BED SOIL (GREY WATER GARDEN SOUTH - EAST)		21-Aug-17	05-Sep-17			■ PLANTING BED S
	·		06-Sep-17	19-Sep-17			■ IRRIGATION (GI
	ELECTRICAL (GREY WATER GARDEN SOUTH - EAST)		20-Sep-17	03-Oct-17			■ ELECTRICAL (
	PLANTING (GREY WATER GARDEN SOUTH - EAST)		04-Oct-17	18-Oct-17			PLANTING (G
	AGGREGATE MULCH (GREY WATER GARDEN SOUTH - EAST)		19-Oct-17	01-Nov-17			■ AGGREGATE
BOTANIC G							_
 _	FILTER FABRIC (BOTANIC GARDENS - EAST)		09-May-17				■ FILTER FABRIC (BOTAN
	SUB DRAINAGE (BOTANIC GARDENS - EAST)		01-Jun-17	21-Jun-17			■ SUB DRAINAGE (BOT)
	SAND DRAINAGE LAYER (BOTANIC GARDENS - EAST)		22-Jun-17	14-Jul-17	-		■ SAND DRAINAGE LA
	PLANTING BED SOIL (BOTANIC GARDENS - EAST)		17-Jul-17	04-Aug-17	-		■ PLANTING BED SO
	IRRIGATION (BOTANIC GARDENS - EAST)		07-Aug-17	25-Aug-17	-		☐ IRRIGATION (BOT
	ELECTRICAL (BOTANIC GARDENS - EAST)		28-Aug-17	19-Sep-17			■ ELECTRICAL (B
	PLANTING (BOTANIC GARDENS - EAST)		20-Sep-17	11-Oct-17			■ PLANTING (BC
	AGGREGATE MULCH (BOTANIC GARDENS - EAST)		12-Oct-17	25-Oct-17			■ AGGREGATE
EAST BAMI	· · ·		13-Feb-17	07-Jun-17			
	FILTER FABRIC (EAST BAMBOO GROVE - EAST)	10	13-Feb-17	27-Feb-17			■ FILTER FABRIC (EAST BAMBO
	SUB DRAINAGE (EAST BAMBOO GROVE - EAST)		28-Feb-17		-		SUB DRAINAGE (EAST BAME
	SAND DRAINAGE LAYER (EAST BAMBOO GROVE - EAST)		14-Mar-17				SAND DRAINAGE LAYER (E.
	PLANTING BED SOIL (EAST BAMBOO GROVE - EAST)		28-Mar-17	10-Apr-17	-		■ PLANTING BED SOIL (EAST
	IRRIGATION (EAST BAMBOO GROVE - EAST)		11-Apr-17	24-Apr-17			■ IRRIGATION (EAST BAMB)
	ELECTRICAL (EAST BAMBOO GROVE - EAST)		25-Apr-17	08-May-17			■ ELECTRICAL (EAST BAM
	PLANTING (EAST BAMBOO GROVE - EAST)		09-May-17				■ PLANTING (EAST BAMB
■ WP-133300	AGGREGATE MULCH (EAST BAMBOO GROVE - EAST)		23-May-17				■ AGGREGATE MULCH (
EAST EART	TH MOUND		08-Jun-17	02-Nov-17			
	FILTER FABRIC (EAST EARTH MOUND - EAST)	10	08-Jun-17	21-Jun-17			■ FILTER FABRIC (EAST
	SUB DRAINAGE (EAST EARTH MOUND - EAST)		22-Jun-17	07-Jul-17			SUB DRAINAGE (EAS
	SAND DRAINAGE LAYER (EAST EARTH MOUND - EAST)		10-Jul-17	21-Jul-17			SAND DRAINAGE LA
	PLANTING BED SOIL (EAST EARTH MOUND - EAST)		24-Jul-17	04-Aug-17			■ PLANTING BED SO
	IRRIGATION (EAST EARTH MOUND - EAST)		07-Aug-17	18-Aug-17			■ IRRIGATION (EAS
	ELECTRICAL (EAST EARTH MOUND - EAST)		21-Aug-17	05-Sep-17			■ ELECTRICAL (EA
	PLANTING (EAST EARTH MOUND - EAST)		06-Sep-17	19-Sep-17			□ PLANTING (EAS
	FINALIZE ROOF @ CRANE PEDESTALS - EAST						■ FINALIZE ROO
	AGGREGATE MULCH (EAST EARTH MOUND - EAST)		20-Sep-17	_			■ AGGREGATE M

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TG18.1 EXHIBIT I SCHEDULE



BS-133000 SET WATER F BS-135000 SET DOMEST BS-120100 SET FIRE PUI BS-140400 AIR (IDEC) HA BS-135100 INSTALL COC BS-102100 BACK-UP GEI BS-102200 BACK-UP GEI BS-100100 SWITCHGEAF BS-100000 SWITCHGEAF BS-100200 SWITCHGEAF	PARK COMPLETE	1 671 10 10 10 10 50 40 25 25	02-Nov-17 12-Jun-14 12-Jun-14 12-Jun-14 12-Jun-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15 24-Sep-15	02-Nov-17 27-Feb-17 25-Jun-14 25-Jun-14 25-Jun-14 06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15	ASO	2014 2015 2016 2017 2019 2019 2019 2019 2019 2019 2019 2019	
BUILDING SYSTEMS - MEF BS-136000 SET EJECTIO BS-133000 SET WATER F BS-135000 SET DOMEST BS-120100 SET FIRE PUI BS-140400 AIR (IDEC) HA BS-135100 INSTALL COC BS-102100 BACK-UP GEI BS-102200 BACK-UP GEI BS-100100 SWITCHGEAF BS-100000 SWITCHGEAF BS-100000 SWITCHGEAF	CPS/BMS/FA ON SUMP PITS (TRAIN PLATFORM ZONE 1) R PUMPS (TRAIN PLATFORM ZONE 1) STIC WATER PUMPS (TRAIN PLATFORM ZONE 1) UMP EQUIPMENT (TRAIN PLATFORM ZONE 1) HANDLER UNITS POLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	10 10 10 10 50 40 25 25 20 40	12-Jun-14 12-Jun-14 12-Jun-14 12-Jun-14 23-Apr-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	02-Nov-17 27-Feb-17 25-Jun-14 25-Jun-14 25-Jun-14 06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15		SET EJECTION SUMP PITS (TRAIN PLATFORM ZONE 1) SET WATER PUMPS (TRAIN PLATFORM ZONE 1) SET DOMESTIC WATER PUMPS (TRAIN PLATFORM ZONE 1) SET FIRE PUMP EQUIPMENT (TRAIN PLATFORM ZONE 1)	
BS-136000 SET EJECTIO BS-133000 SET WATER F BS-135000 SET DOMEST BS-120100 SET FIRE PUI BS-140400 AIR (IDEC) HA BS-135100 INSTALL COC BS-102100 BACK-UP GEI BS-102200 BACK-UP GEI BS-100100 SWITCHGEAF BS-132100 GRAY WATEF BS-100200 SWITCHGEAF	ON SUMP PITS (TRAIN PLATFORM ZONE 1) R PUMPS (TRAIN PLATFORM ZONE 1) STIC WATER PUMPS (TRAIN PLATFORM ZONE 1) UMP EQUIPMENT (TRAIN PLATFORM ZONE 1) HANDLER UNITS OOLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	10 10 10 10 50 40 25 25 20 40	12-Jun-14 12-Jun-14 12-Jun-14 23-Apr-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	25-Jun-14 25-Jun-14 25-Jun-14 06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15		SET WATER PUMPS (TRAIN PLATFORM ZONE 1) SET DOMESTIC WATER PUMPS (TRAIN PLATFORM ZONE 1) SET FIRE PUMP EQUIPMENT (TRAIN PLATFORM ZONE 1)	
BS-136000 SET EJECTIO BS-133000 SET WATER F BS-135000 SET DOMEST BS-120100 SET FIRE PUI BS-140400 AIR (IDEC) HA BS-135100 INSTALL COC BS-102100 BACK-UP GEI BS-102200 BACK-UP GEI BS-100100 SWITCHGEAF BS-132100 GRAY WATEF BS-100200 SWITCHGEAF	ON SUMP PITS (TRAIN PLATFORM ZONE 1) R PUMPS (TRAIN PLATFORM ZONE 1) STIC WATER PUMPS (TRAIN PLATFORM ZONE 1) UMP EQUIPMENT (TRAIN PLATFORM ZONE 1) HANDLER UNITS OOLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	10 10 10 50 40 25 25 20 40	12-Jun-14 12-Jun-14 23-Apr-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	25-Jun-14 25-Jun-14 06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15		SET WATER PUMPS (TRAIN PLATFORM ZONE 1) SET DOMESTIC WATER PUMPS (TRAIN PLATFORM ZONE 1) SET FIRE PUMP EQUIPMENT (TRAIN PLATFORM ZONE 1)	
■ BS-133000 SET WATER F ■ BS-135000 SET DOMEST ■ BS-120100 SET FIRE PUI ■ BS-140400 AIR (IDEC) HA ■ BS-135100 INSTALL COC ■ BS-102100 BACK-UP GEI ■ BS-102200 BACK-UP GEI ■ BS-100100 SWITCHGEAF ■ BS-132100 GRAY WATEF ■ BS-100200 SWITCHGEAF	R PUMPS (TRAIN PLATFORM ZONE 1) STIC WATER PUMPS (TRAIN PLATFORM ZONE 1) UMP EQUIPMENT (TRAIN PLATFORM ZONE 1) HANDLER UNITS SOLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	10 10 10 50 40 25 25 20 40	12-Jun-14 12-Jun-14 23-Apr-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	25-Jun-14 25-Jun-14 06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15	-	SET WATER PUMPS (TRAIN PLATFORM ZONE 1) SET DOMESTIC WATER PUMPS (TRAIN PLATFORM ZONE 1) SET FIRE PUMP EQUIPMENT (TRAIN PLATFORM ZONE 1)	
■ BS-135000 SET DOMEST ■ BS-120100 SET FIRE PUI ■ BS-140400 AIR (IDEC) HA ■ BS-135100 INSTALL COC ■ BS-102100 BACK-UP GEI ■ BS-102200 BACK-UP GEI ■ BS-100100 SWITCHGEAF ■ BS-132100 GRAY WATEF ■ BS-100200 SWITCHGEAF	ETIC WATER PUMPS (TRAIN PLATFORM ZONE 1) UMP EQUIPMENT (TRAIN PLATFORM ZONE 1) HANDLER UNITS POLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	10 10 50 40 25 25 25 20 40	12-Jun-14 23-Apr-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	25-Jun-14 06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15		SET DOMESTIC WATER PUMPS (TRAIN PLATFORM ZONE 1) SET FIRE PUMP EQUIPMENT (TRAIN PLATFORM ZONE 1)	
BS-120100 SET FIRE PUI BS-140400 AIR (IDEC) HA BS-135100 INSTALL COC BS-102100 BACK-UP GEI BS-102200 BACK-UP GEI BS-100100 SWITCHGEAF BS-132100 GRAY WATEF BS-100000 SWITCHGEAF BS-100200 SWITCHGEAF	UMP EQUIPMENT (TRAIN PLATFORM ZONE 1) HANDLER UNITS DOLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	10 50 40 25 25 20 40	23-Apr-15 07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	06-May-15 16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15	-	SET FIRE PUMP EQUIPMENT (TRAIN PLATFORM ZONE 1)	
BS-140400 AIR (IDEC) HA BS-135100 INSTALL COC BS-102100 BACK-UP GEI BS-102200 BACK-UP GEI BS-100100 SWITCHGEAR BS-132100 GRAY WATER BS-100000 SWITCHGEAR BS-100200 SWITCHGEAR	HANDLER UNITS DOLING TOWER (ZONE 1 LC) ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	40 25 25 25 20 40	07-Jul-15 17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	16-Sep-15 14-Sep-15 31-Aug-15 22-Sep-15	-		
■ BS-135100 INSTALL COC ■ BS-102100 BACK-UP GEI ■ BS-102200 BACK-UP GEI ■ BS-100100 SWITCHGEAF ■ BS-132100 GRAY WATEF ■ BS-100000 SWITCHGEAF ■ BS-100200 SWITCHGEAF	ENERATORS (ZONE 1 - WEST GEN LVL 2) ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	40 25 25 25 20 40	17-Jul-15 28-Jul-15 17-Aug-15 24-Sep-15	14-Sep-15 31-Aug-15 22-Sep-15			
■ BS-102100 BACK-UP GEI ■ BS-102200 BACK-UP GEI ■ BS-100100 SWITCHGEAF ■ BS-132100 GRAY WATEF ■ BS-100000 SWITCHGEAF ■ BS-100200 SWITCHGEAF	ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	25 20 40	28-Jul-15 17-Aug-15 24-Sep-15	31-Aug-15 22-Sep-15		INSTALL COOLING TOWER (ZONE 1 LC)	
■ BS-102200 BACK-UP GEI ■ BS-100100 SWITCHGEAF ■ BS-132100 GRAY WATEF ■ BS-100000 SWITCHGEAF ■ BS-100200 SWITCHGEAF	ENERATORS (ZONE 2 CENTRAL GEN GRND LVL) AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	20 40	17-Aug-15 24-Sep-15	22-Sep-15	1	BACK-UP GENERATORS (ZONE 1 - WEST GEN LVL 2)	
BS-100100 SWITCHGEAF BS-132100 GRAY WATEF BS-100000 SWITCHGEAF BS-100200 SWITCHGEAF	AR (ZONES 1- RM #B1222) ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	40	24-Sep-15	·		BACK-UP GENERATORS (ZONE 2 CENTRAL GEN GRND LVL)	.)
BS-132100 GRAY WATER BS-100000 SWITCHGEAR BS-100200 SWITCHGEAR	ER TREATMENT PLANT EQUIPMENT AR (ZONES 2- RM #B1323)	40	· ·	<u> </u>		SWITCHGEAR (ZONES 1- RM #B1222)	
BS-100000 SWITCHGEAR BS-100200 SWITCHGEAR	,	15		19-Nov-15		GRAY WATER TREATMENT PLANT EQUIPMENT	
BS-100200 SWITCHGEAR	,		23-Oct-15	12-Nov-15		■ SWITCHGEAR (ZONES 2- RM #B1323)	
		15	03-Dec-15	23-Dec-15		SWITCHGEAR (ZONES 3 - RM #B1537)	
	YSTEM TANKS (ZONE 1)	15	17-May-16			■ FUEL OIL SYSTEM TANKS (ZONE 1)	-
BS-110000 TRANSFORM	MER VAULTS ROUGH-IN (CONCURSE LEVEL ZONE 1 - RM #B1220)	20	17-May-16			☐ TRANSFORMER VAULTS ROUGH-IN (CONC	ICURSE
	JMPS & PIPING (ZONE 1)	30	-	21-Jul-16		FUEL OIL PUMPS & PIPING (ZONE 1)	
	FORMERS (ZONES 1)	5	16-Jun-16			I SET TRANSFORMERS (ZONES 1)	
	MER VAULTS ROUGH-IN (CONCOURSE LEVEL ZONE 2 - RM #B1322)	20		28-Jul-16		☐ TRANSFORMER VAULTS ROUGH-IN (CO	ONCOL
	FORMERS (ZONES 2)	5	29-Jul-16	04-Aug-16		I SET TRANSFORMERS (ZONES 2)	
	YSTEM TANKS (ZONE 3)	15	12-Aug-16			■ FUEL QIL SYSTEM TANKS (ZONE 3)	
	MER VAULT ROUGH-IN (CONCOURSE LEVEL ZONE 3 - #B1536)	20	12-Aug-16	12-Sep-16	-	TRANSFORMER VAULT ROUGH-IN (C	
	JMPS & PIPING (ZONE 3)	30	06-Sep-16	18-Oct-16	-	FUEL OIL PUMPS & PIPING (ZONE :	
	FORMERS (ZONES 3)	5	13-Sep-16	19-Sep-16	-	SET TRANSFORMERS (ZONES 3)	-,
	HAUST FANS - WEST	50	20-Sep-16	·		SUPPLY/EXHAUST FANS - WES'	ST
	CIRCULATION FANS (BAF'S)	50	14-Dec-16			BUS DECK CIRCULATION	
	ER ONLINE (GREEN TAG)	0		13-Jan-17		♦ PERM POWER ONLINE (GRE	
BS-102335 BUILDING WA	· · ·	0		13-Jan-17		♦ BUILDING WATERTIGHT	
GOMMISSIONING/TESTING	IG/TRAINING/TURNOVER	258	17-Jan-17	31-Jan-18			
COMMISSIONING & TEST			17-Jan-17	31-Jan-18			
	AR STARTUP AND COMMISION (ZONE 1)		17-Jan-17			■ SWITCHGEAR STARTUP AN	
	AR STARTUP AND COMMISSION (ZONE 2)			28-Feb-17	-	SWITCHGEAR STARTUP A	
	/CURTAIN WALL COMMISSIONING		22-Feb-17	14-Mar-17	-	SKYLIGHTS/CURTAIN W	
	AR STARTUP AND COMMISSION (ZONE 3)		01-Mar-17	21-Mar-17	-	■ SWITCHGEAR STARTUP	
	TER TREATMENT PLANT STARTUP AND COMMISSIONING		22-Mar-17	11-Apr-17		■ SWITCHGEAR STARTOP ■ WASTE WATER TREAT	
	WATER EQUIPMENT STARTUP AND COMMISSIONING	15	22-Mar-17	11-Apr-17	-	DOMESTIC WATER EQ	
	YSTEMS AND GRAPHICS COMMISSIONING		22-Mar-17	11-Apr-17	-	■ DOMESTIC WATER EQ	
	OCK EQUIPMENT AND ROLLUP DOORS COMMISSIONING		22-Mar-17	11-Apr-17	-	LOADING DOCK EQUIF	
	QUIPMENT COMMISSSIONING	20	22-Mar-17	18-Apr-17	-	FUEL OIL EQUIPMENT	
	ACUATION SYSTEM	25	22-Mar-17	· · · · · · · · · · · · · · · · · · ·		SMOKE EVACUATION	
CX-102600 SMORE EVAC		70	22-Mar-17	25-Apr-17 29-Jun-17	-	A/V SYSTEMS	1N 0101
	RAMMING AND COMMISSIONING	80	22-Mar-17	29-Jun-17 17-Jul-17	-	BMS PROGRAM	NANAINIO
	# PROGRAMMING AND COMMISSIONING	80		07-Aug-17	-	FIRE ALARM P	
	ENERATOR STARTUP AND COMMISSION (ZONE 1)		12-Apr-17		-	BACKUP GENERATO	
	ENERATOR STARTUP AND COMMISSION (ZONE 1)	15	19-Apr-17	09-May-17 09-May-17		BACKUP GENERATO	
CX-100300 BACKUP GEN	, ,		19-Apr-17 27-Apr-17	-	-	RAMP GEOMETR	
	S AND EQUIPMENT STARTUP AND COMMISSIONING			11-Jul-17	-	■ FIRE PUMPS AND E	
Layout: Exhibit I	S AND EQUITIVENT STARTUP AND COMINISSIONING	15	10-May-17	o i-Jun-17		User: jramirez	- EQUIP

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

		· · · · · · · · · · · · · · · · · · ·					JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	A el C	2014 2015 2016 NND JEMAM J JASON D JEMAM J JASON D JEMAM J JASON I	
CX-102200	LIGHTING CONTROLS PROGRAMMING AND COMMISSIONING	30	23-Jun-17	07-Aug-17	AS		LIGHTING CONTROLS
CX-101600	GEOTHERMAL STARTUP AND COMMISSIONING	25	30-Jun-17	07-Aug-17	_		GEOTHERMAL STAR
CX-101700	COOLING TOWERS STARTUP AND COMMISSIONING	25	30-Jun-17	07-Aug-17			COOLING TOWERS S
CX-101300	EMERGENCY LIGHTING AND EGRESS SIGNAGE COMMISSIONING	15	18-Jul-17	07-Aug-17	_		■ EMERGENCY LIGHTII
CX-101500	WATER FEATURES STARTUP AND COMMISSIONING	15	18-Jul-17	07-Aug-17	_		■ WATER FEATURES S
CX-102900	UNINTERRUPTED POWER SUPPLY SYSTEM	15	18-Jul-17	07-Aug-17	_		■ UNINTERRUPTED PO
CX-103100	CCTV SYSTEMS	35	18-Jul-17	06-Sep-17	_		CCTV SYSTEMS
CX-102500	FIBER OPTIC BACKBONE CABLING SYSTEM	40	18-Jul-17	13-Sep-17			FIBER OPTIC BACK
CX-102600	COPPER BACKBONE CABLING SYSTEM	40	18-Jul-17	13-Sep-17	_		COPPER BACKBON
CX-103000	SECURITY/ACCESS SYSTEM	45	18-Jul-17	20-Sep-17	_		SECURITY/ACCES
CX-103400	TRAFFIC SIGNALING	50	18-Jul-17	27-Sep-17	_		TRAFFIC SIGNALI
CX-102700	IT/DATA (SECONDARY CABLING) SYSTEM	70	18-Jul-17	26-Oct-17	_		IT/DATA (SECON
CX-101000	HVAC STARTUP AND COMMISSIONING	20	08-Aug-17	06-Sep-17			■ HVAC STARTUP AN
CX-101400	IRRIGATION STARTUP AND COMMISSIONING	15	21-Aug-17	12-Sep-17	_		■ IRRIGATION STAR
CX-103500	30 DAY ADVANCED COMMISSIONING	30	07-Sep-17	19-Oct-17	_		30 DAY ADVANC
MS-104100	PARTIAL TCO FOR BUS OPERATIONS	0	07-3ep-17	19-Oct-17	_		◆ PARTIAL TCO F
SC-100200	TEMPORARY CERTIFICATE OF OCCUPANCY	0		02-Nov-17	_		◆ TEMPORARY C
SC-100200	COMPLETION OF ALL FIELD ACTIVITIES AND CLOSEOUT DOCUMENTS	90	03-Nov-17	31-Jan-18			COMPLE
SC-100100	FINAL COMPLETION	90	03-1107-17	31-Jan-18	_		◆ FINAL CO
		40	03-Nov-17	04-Jan-18			V I IIVAE CC
TRAINING &							B DUC ODEDATI
TT-100070	BUS OPERATIONS TRAINING AND TURNOVER	10	03-Nov-17	16-Nov-17	_		BUS OPERATION OF THE PROPERTY
TT-100010	HVAC SYSTEMS TRAINING AND TURNOVER	10	17-Nov-17	04-Dec-17			HVAC SYSTE
TT-100040	PLUMBING SYSTEMS TRAINING AND TURNOVER	10	17-Nov-17	04-Dec-17	_		PLUMBING S
TT-100050	ELECTRICAL SYSTEMS TRAINING AND TURNOVER	10	17-Nov-17	04-Dec-17	_		■ ELECTRICAL
TT-100020	LANDSCAPING SYSTEMS TRAINING AND TURNOVER	10	05-Dec-17	18-Dec-17	_		LANDSCAPI
TT-100030	GEOTHERMAL SYSTEMS TRAINING AND TURNOVER	10	05-Dec-17	18-Dec-17	_		GEOTHERM
TT-100060	AV/CCTV SYSTEMS TRAINING AND TURNOVER	10	05-Dec-17	18-Dec-17			AV/CCTV SY
TT-100000	BMS/FA TRAINING AND TURNOVER	10	19-Dec-17	04-Jan-18			BMS/FA TF
TT-100080	BUILDING SECURITY SYSTEMS TRAINING AND TURNOVER	10	19-Dec-17	04-Jan-18			BUILDING
BUS RAMP				12-Jun-17			
FREMONT O	PF RAMP	326	24-Jun-14	16-Oct-15			
FREMONT (OFF RAMP SUBSTRUCTURE	224	24-Jun-14	19-May-15			
H MOBILIZE	AND DEMOLITION	45	24-Jun-14	26-Aug-14			
■ BR-100200	TEMPORARY ACCESS/FENCING	10	24-Jun-14	08-Jul-14		■ TEMPORARY ACCESS/FENCING	
■ BR-100300	DEMO EXISTING OVERHANG BETWEEN BENT 20A-23	15	09-Jul-14	29-Jul-14		■ DEMO EXISTING OVERHANG BETWEEN BENT 20A-23	
■ BR-168300	DEMO EXISTING SUPERSTRUCTRE BETWEEN 23-24	10	30-Jul-14	12-Aug-14		■ DEMO EXISTING SUPERSTRUCTRE BETWEEN 23-24	
■ BR-168400	DEMO EXISTING BENT 23 - ABUTMENT 24	10	13-Aug-14	26-Aug-14		■ DEMO EXISTING BENT 23 - ABUTMENT 24	
☐ BENT 20A		40	05-Aug-14	01-Oct-14			
	STAGING BENT 20A	15	05-Aug-14	25-Aug-14		■ STAGING BENT 20A	
	PILE BENT 20A			03-Sep-14		■ PILE BENT 20A	
	COLUMN BENT 20A		-	24-Sep-14		COLUMN BENT 20A	
	ISOLATION CASING 20A		25-Sep-14			I ISOLATION CASING 20A	
BENT 21			·	01-Dec-14			
	STAGING BENT 21		02-Oct-14	23-Oct-14		■ STAGING BENT 21	
BR-169100			24-Oct-14	30-Oct-14	_	PILE BENT 21	
	COLUMN BENT 21			20-Nov-14	-	COLUMN BENT 21	

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

									JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish	, I allo	ا ۱۸ ا	2014 2015	2016	2017	2018
■ BR-190820	ISOLATION CASING 21	5	21-Nov-14	01-Doc 14	AS		DJFMAMJJASONDJFMAMJJASOND ISOLATION CASING 21			
BR-190820	ISOLATION CASING 21		02-Dec-14				I ISOLATION CASING 21			
BR-168700	STAGING BENT 22		02-Dec-14	22-Dec-14			STAGING BENT 22			
BR-169200	PILE BENT 22		23-Dec-14	31-Dec-14	_		PILE BENT 22			
BR-169700	COLUMN BENT 22		05-Jan-15	26-Jan-15	_		COLUMN BENT 22			
BR-190830	ISOLATION CASING 22		27-Jan-15	02-Feb-15	_		I ISOLATION CASING 2	22		
☐ BENT 23	ISSERTION STORING ZZ		03-Feb-15	24-Mar-15			i least their exercises			
BR-168800	STAGING BENT 23		03-Feb-15	24-Feb-15			■ STAGING BENT 23			
BR-169300	PILE BENT 23		25-Feb-15	03-Mar-15	_		PILE BENT 23			
	COLUMN BENT 23		04-Mar-15	24-Mar-15	_		COLUMN BENT 23	<u> </u> 		
ABUTMEN			25-Mar-15	19-May-15			G G G G MIN BENN EG			
	STAGING ABUTMENT 24	<u> </u>	25-Mar-15				■ STAGING ABUTN	IFNT 24		
BR-169400			08-Apr-15	21-Apr-15	_			TMENT 24 (6 PIECES)		
■ BR-169900	FOOTING ABUTMENT 24		22-Apr-15	28-Apr-15	_		■ FOOTING ABUT	,		
	STEM WALL ABUTMENT 24		29-Apr-15	19-May-15	_		STEM WALL A			
	OFF RAMP SUPERSTRUCTRE		03-Feb-15	16-Oct-15						
BENT 20A		,		08-Jun-15						
	BOTTOM SUPPORT - BENT 20A - 21		03-Feb-15				■ BOTTOM SUPPORT	 - BENT 20A - 21		
■ BR-171200		17	04-Mar-15	26-Mar-15	_		■ BOTTOM SLAB/S	_		
■ BR-171300			27-Mar-15	07-May-15			TOP SLAB - BE			
■ BR-171400	REMOVE SUPPORT - BENT 20A - 21			21-May-15				PORT - BENT 20A - 21		
■ BR-171500			26-May-15	-		Н		NSTRUCTION - BENT 20	A-21	
□ BENT 21-2			04-Mar-15							
BR-171600	BOTTOM SUPPORT - BENT 21 - 22		04-Mar-15				■ BOTTOM SUPPO	RT - BENT 21 - 22		
BR-171700	BOTTOM SLAB/STEM - BENT 21 - 22		01-Apr-15	23-Apr-15	_			STEM - BENT 21 - 22		
■ BR-171800		30	08-May-15	22-Jun-15	_		TOP SLAB -			
■ BR-171900	REMOVE SUPPORT - BENT 21 - 22	10	23-Jun-15	07-Jul-15				UPPORT - BENT 21 - 22		
■ BR-172000	BARRIER CONSTRUCTION - BENT 21 - 22		08-Jul-15	21-Jul-15			■ BARRIER	CONSTRUCTION - BENT	21 - 22	
☐ BENT 22-2	3	107	01-Apr-15	01-Sep-15						
	BOTTOM SUPPORT - BENT 22 - 23	20	01-Apr-15	28-Apr-15			■ BOTTOM SUPP	ORT - BENT 22 - 23		
■ BR-172200	BOTTOM SLAB/STEM - BENT 22 - 23	17	29-Apr-15	21-May-15			■ BOTTOM SLA	B/STEM - BENT 22 - 23		
■ BR-172300	TOP SLAB - BENT 22 - 23	30	23-Jun-15	04-Aug-15			TOP SLA	B - BENT 22 - 23		
■ BR-172400	REMOVE SUPPORT - BENT 22 - 23	10	05-Aug-15	18-Aug-15			■ REMOV	E SUPPORT - BENT 22 - 2	3	
■ BR-172500	BARRIER CONSTRUCTION - BENT 22 - 23	10	19-Aug-15	01-Sep-15			■ BARRI	ER CONSTRUCTION - BE	NT 22 - 23	
	BUTMENT 24	102	20-May-15	16-Oct-15						
■ BR-172600	BOTTOM SUPPORT - BENT 23 - ABUTMENT 24	20	20-May-15	18-Jun-15			■ BOTTOM SU	PPORT - BENT 23 - ABUT	MENT 24	
■ BR-172700	BOTTOM SLAB/STEM - BENT 23 - ABUTMENT 24	17	19-Jun-15	14-Jul-15		L	■ BOTTOM	SLAB/STEM - BENT 23 - A	BUTMENT 24	
■ BR-172800	TOP SLAB - BENT 23 - ABUTMENT 24	30	05-Aug-15	17-Sep-15			TOP S	LAB - BENT 23 - ABUTME	NT 24	
■ BR-172900	REMOVE SUPPORT - BENT 23 - ABUTMENT 24	10	18-Sep-15	01-Oct-15			■ REM	OVE SUPPORT - BENT 23	- ABUTMENT 24	
■ BR-173000	BARRIER CONSTRUCTION - BENT 23 - ABUTMENT 24	10	02-Oct-15	16-Oct-15			■ BAF	RIER CONSTRUCTION -	BENT 23 - ABUTMENT 24	
HARRISON:	ST. BRIDGE	394	27-Aug-14	01-Apr-16						
HARRISON	BRIDGE DEMO (SOUTH)	30	27-Aug-14	09-Oct-14						
BR-170810	ACCESS FENCING AT HARRISON BRIDGE (SOUTH)	10	27-Aug-14	11-Sep-14			■ ACCESS FENCING AT HARRISO	N BRIDGE (SOUTH)		
■ BR-170820	DEMO (E) CONCRETE BARRIER AT PUMP STATION	2	12-Sep-14	15-Sep-14			I DEMO (E) CONCRETE BARRIEI	R AT PUMP STATION		
BR-170100	DEMO (E) BENT A	5	16-Sep-14	22-Sep-14			I DEMO (E) BENT A			
■ BR-170200	DEMO (E) SIDEWALK AT HARRISON (SOUTH)	2	22 Can 44	25-Sep-14			I DEMO (E) SIDEWALK AT HARF	NEON (COLITH)		

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

	=			1	1	-					JOINT VENTU	
Acti	vity ID	Activity Name	OD	Start	Finish		ND i	2014 JEMIAM J JASONDI	2015 			2018
	■ BR-170300	INSTALL SHORING WALL AT HARRISON (SOUTH) FOR DEMO	5	26-Sep-14	02-Oct-14	1/19/1	1-13	INSTA INSTA		HARRISON (SOUTH) FOR		plat Latalala
Н	BR-170400	DEMO (E) BENT B	5	03-Oct-14	09-Oct-14	-			O (E) BENT B			
		BRIDGE DEMO (NORTH)	38	12-Sep-14	05-Nov-14			-	- ()			
	BR-173010	ACCESS FENCING AT HARRISON BRIDGE (NORTH)	10	12-Sep-14	25-Sep-14			■ ACCE	SS FENCING AT HARRI	SON BRIDGE (NORTH)		
	■ BR-173030	DEMO (E) BENT D	5	10-Oct-14	17-Oct-14	_			O (E) BENT D	JON BRIDGE (NORTH)		
	BR-173040	DEMO (E) SIDEWALK AT HARRISON (NORTH)	3	20-Oct-14	22-Oct-14				10 (E) SIDEWALK AT HA	RRISON (NORTH)		
	BR-173050	INSTALL SHORING WALL AT HARRISON (NORTH) FOR DEMO	5	23-Oct-14	29-Oct-14	-				T HARRISON (NORTH) FO	OR DEMO	
	BR-173060	DEMO (E) BENT C	5	30-Oct-14	05-Nov-14	_			MO (E) BENT C		JI DEMO	
П		BRIDGE SUBSTRUCTURE		20-May-15					(L) BLITT 0			
	BR-168210	EARTHWORK ABUTMENT 1 EAST		-					■ FARTHWOR	K ABUTMENT 1 EAST		
	BR-168220	FOOTING ABUTMENT 1 EAST	10		18-Jun-15	-				ABUTMENT 1 EAST		
	BR-160100	EARTHWORK ABUTMENT 1 WEST	10	05-Jun-15	18-Jun-15	-				RK ABUTMENT 1 WEST		
	BR-168230	FOOTING ABUTMENT 1 WEST	10	19-Jun-15	02-Jul-15	-				ABUTMENT 1 WEST		
	BR-168250	STEM & WALL ABUTMENT 1 EAST	15	19-Jun-15	10-Jul-15	-				VALL ABUTMENT 1 EAST		
	BR-160400	EARTHWORK ABUTMENT 2	20	19-Jun-15	17-Jul-15	- 1				ORK ABUTMENT 2		
	BR-168260	STEM & WALL ABUTMENT 1 WEST	15	13-Jul-15	31-Jul-15					WALL ABUTMENT 1 WES	+	
	BR-161100	STEP FOOTING ABUTMENT 1 (EAST)	20	13-Jul-15	07-Aug-15	-				OOTING ABUTMENT 1 (EA		
	BR-168240	FOOTING ABUTMENT 2	15		07-Aug-15	-				IG ABUTMENT 2	101)	
	BR-162000	BACKFILL ABUTMENT 1 (EAST)	10	10-Aug-15	21-Aug-15	_			_	FILL ABUTMENT 1 (EAST)		
	BR-161400	STEP FOOTING ABUTMENT 1 (WEST)	20	10-Aug-15	08-Sep-15	_				FOOTING ABUTMENT 1 (WEST)	
	BR-168270	STEM & WALL ABUTMENT 2	30	10-Aug-15	22-Sep-15					M & WALL ABUTMENT 2	(11201)	
	BR-162300	BACKFILL ABUTMENT 1 (WEST)	10		22-Sep-15	_				KFILL ABUTMENT 1 (WES	 T)	
	BR-161700	STEP FOOTING ABUTMENT 2	20	23-Sep-15	21-Oct-15	_				EP FOOTING ABUTMENT	-	
	BR-162600	BACKFILL ABUTMENT 2	20	22-Oct-15	18-Nov-15	_				BACKFILL ABUTMENT 2		
		BRIDGE SUPERSTUCTURE		22-Oct-15	01-Apr-16					THE THE THE TWENT I		
	BR-163600	SUPPORT INSTALLATION HARRISON - EAST (GIRDER 2)	20	22-Oct-15	18-Nov-15					SUPPORT INSTALLATION	HARRISON - EAST (GIRI	DER 2)
	■ BR-163300	SUPPORT INSTALLATION HARRISON - WEST (GIRDER 1)	20	19-Nov-15	18-Dec-15	_				SUPPORT INSTALLATIO	,	1 '
	BR-170600	GIRDER BOTTOM STEM CONSTRUCTION EAST (GIRDER 2)	20	19-Nov-15	18-Dec-15					GIRDER BOTTOM STEM	,	1 '
	■ BR-170500	GIRDER BOTTOM STEM CONSTRUCTION WEST (GIRDER 1)	20	21-Dec-15	21-Jan-16					GIRDER BOTTOM ST	M CONSTRUCTION WE	ST (GIRDER 1)
	■ BR-168280	DECK CONSTRUCTION HARRISON EAST (GIRDER 2)	30	21-Dec-15						DECK CONSTRUCTION		
	■ BR-170800	REMOVE SUPPORT HARRISON EAST (GIRDER 2)	10	05-Feb-16	19-Feb-16					■ REMOVE SUPPORT	HARRISON EAST (GIRE	DER 2)
	■ BR-168290	DECK CONSTRUCTION HARRISON WEST (GIRDER 1)	30	05-Feb-16							TION HARRISON WEST	'
	BR-170700	REMOVE SUPPORT HARRISON WEST (GIRDER 1)	10	21-Mar-16	01-Apr-16	1				■ REMOVE SUPPO	ORT HARRISON WEST (G	SIRDER 1)
	RETAINING	VALL	170	19-Nov-15	27-Jul-16							
	BR-173070	CLEARING AND SITE PREPARATION	5	19-Nov-15	25-Nov-15				1	CLEARING AND SITE PRE	PARATION	
П	■ BR-173080	EARTHWORK AND EXCAVATION SUPPORT SYSTEM	15	30-Nov-15	18-Dec-15					EARTHWORK AND EXC	AVATION SUPPORT SYS	STEM
	■ BR-173090	MSE WALL EAST LOWER SECTION	20	21-Dec-15	21-Jan-16					MSE WALL EAST LOV	VER SECTION	
	■ BR-173100	MSE WALL WEST LOWER SECTION	20	22-Jan-16	19-Feb-16					MSE WALL WEST L	OWER SECTION	
	BR-173110	INSTALL WALL TIES AND GRANULAR FILL - WEST LOWER SECTION	5	22-Feb-16	26-Feb-16					I INSTALL WALL TIE	\$ AND GRANULAR FILL -	WEST LOWER
	BR-173120	MSE WALL EAST MID SECTION	20	29-Feb-16	25-Mar-16					■ MSE WALL EAST	MID SECTION	
	BR-173130	MSE WALL WEST MID SECTION	20	28-Mar-16	22-Apr-16					■ MSE WALL WE	ST MID SECTION	
	BR-173140	INSTALL WALL TIES AND GRANULAR FILL - WEST MID SECTION	5	25-Apr-16	29-Apr-16					I INSTALL WALL	TIES AND GRANULAR F	FILL - WEST MID
	BR-173150	MSE WALL EAST UPPER SECTION	20	02-May-16	31-May-16					■ MSE WALL E	AST UPPER SECTION	
	BR-173160	MSE WALL WEST UPPER SECTION	20	01-Jun-16	28-Jun-16					■ MSE WALL	WEST UPPER SECTION	1
	BR-173170	INSTALL WALL TIES AND GRANULAR FILL - WEST UPPER SECTION	5	29-Jun-16	06-Jul-16					I INSTALL \	WALL TIES AND GRANUL	AR FILL - WEST
	■ BR-173180	ROADWAY ON RETAINING STRUCTURE	15	07-Jul-16	27-Jul-16					■ ROADW	AY ON RETAINING STRU	CTURE

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

										JOINT VENTUR	E
Activity ID	Activity Name	OD	Start	Finish			2014	2015	2016	2017	2018
					ASC	DNC	DIFMAMJJASDND	JFMAMJJASPND	J F M A M J J A S J N C)JFMAMJJASOND	JFMAMJJ
I-80 CONNEC	TION ON GRADE	35	04-Apr-16	20-May-16							
■ BR-190700	GRADING	20	04-Apr-16	29-Apr-16					■ GRADING		
■ BR-190800	GUARD RAIL	15	02-May-16	20-May-16					■ GUARD RAIL		
□ VIADUCT		521	24-Jun-14	29-Jul-16							
VIADUCT SU	BSTRUCTURE	228	24-Jun-14	27-May-15							
BR-170900	TEMPORARY ACCESS / FENCING		24-Jun-14	22-Jul-14			■ TEMPOR	ARY ACCESS / FENCING			
■ BR-171000	DEMO (E) BENT F	5	23-Jul-14	29-Jul-14	_		DEMO (E				
■ BR-173190	DEMO (E) BENT 1	5	30-Jul-14	05-Aug-14	_		I DEMO (E				
■ BR-173200	DEMO (E) BENT 2	5	06-Aug-14	12-Aug-14	_		I DEMO (<u> </u>			
■ BR-173300	DEMO (E) BENT 3	5	13-Aug-14	19-Aug-14			,	(E) BENT 3			
■ BR-173400	DEMO (E) BENT 5	5	20-Aug-14	26-Aug-14	_			(E) BENT 5			
BR-174100	ABUTMENT 1 EARTH WORK	10	20-Aug-14	04-Sep-14	_			MENT 1 EARTH WORK			
BR-173500	DEMO (E) BENT 7	5	27-Aug-14	04-Sep-14	_			(E) BENT 7			
■ BR-174400	BENT 2 PILE	5	27-Aug-14	· ·	_		■ BENT	' '			
■ BR-173600	DEMO (E) BENT 9	5	05-Sep-14	· ·				(E) BENT 9			
■ BR-174200	ABUTMENT 1 FOOTING	5	05-Sep-14	11-Sep-14	_			MENT 1 FOOTING			
■ BR-174600	BENT 3-1 PILE	5	05-Sep-14	11-Sep-14	_		₿ BENT				
■ BR-173700	DEMO (E) BENT 19	5	12-Sep-14	18-Sep-14	_			D (E) BENT 19			
■ BR-174700	BENT 3-2 PILE	5	12-Sep-14	18-Sep-14	_			3-2 PILE			
■ BR-174300	ABUTMENT 1 STEM & WING WALL	15	12-Sep-14	02-Oct-14				TMENT 1 STEM & WING V	WALL		
■ BR-174000	DEMO (E) BENT 11	5	19-Sep-14	25-Sep-14	_			O (E) BENT 11			
■ BR-173800	DEMO (E) BENT 20	5	26-Sep-14	02-Oct-14				O (E) BENT 20			
■ BR-173900	DEMO (E) BENT 22	5	03-Oct-14	09-Oct-14				/O (E) BENT 22			
BR-175000	BENT 4-1 PILE	5	03-Oct-14	09-Oct-14	_			IT 4-1 PILE			
BR-174500	BENT 2 COLUMN SEC 1	8	03-Oct-14	15-Oct-14				NT 2 COLUMN SEC 1			
■ BR-175100	BENT 4-2 PILE	5	10-Oct-14	17-Oct-14	_			NT 4-2 PILE			
■ BR-177300	DEMO (E) BENT 17	10	10-Oct-14	24-Oct-14	_			MO (E) BENT 17			
■ BR-190930	BENT 2 COLUMN SEC 2	7	16-Oct-14	24-Oct-14	_			NT 2 COLUMN SEC 2			
■ BR-174800	BENT 3-1 COLUMN SEC 1	8	16-Oct-14	27-Oct-14	_			NT 3-1 COLUMN SEC 1			
■ BR-175200	BENT 4-3 PILE	5	20-Oct-14					NT 4-3 PILE			
■ BR-175800			27-Oct-14					NT 5-1 PILE			
■ BR-191030	BENT 3-1 COLUMN SEC 2	7	28-Oct-14	05-Nov-14				ENT 3-1 COLUMN SEC 2			
■ BR-174900	BENT 3-2 COLUMN SEC 1	8	28-Oct-14	06-Nov-14	_			ENT 3-2 COLUMN SEC 1			
BR-175900	BENT 5-2 PILE	5		07-Nov-14	_		_ I B	ENT 5-2 PILE			
BR-191130	BENT 3-2 COLUMN SEC 2	7	07-Nov-14	_				ENT 3-2 COLUMN SEC 2			
■ BR-175300	BENT 4-1 COLUMN SEC 1	8	07-Nov-14	_	_			BENT 4-1 COLUMN SEC 1			
■ BR-175600	BENT C1-1 PILE	5	10-Nov-14	14-Nov-14	_			ENT C1-1 PILE			
■ BR-177400	BENT 6-1 PILE	5		21-Nov-14	_			BENT 6-1 PILE			
■ BR-191230	BENT 4-1 COLUMN SEC 2	7		01-Dec-14	_			BENT 4-1 COLUMN SEC 2	2		
■ BR-175400	BENT 4-2 COLUMN SEC 1	8		02-Dec-14				BENT 4-2 COLUMN SEC 1			
■ BR-177500	BENT 6-2 PILE	5	24-Nov-14		_			BENT 6-2 PILE			
BR-176200	BENT 7-1 PILE	5		09-Dec-14				BENT 7-1 PILE			
BR-191330	BENT 4-2 COLUMN SEC 2	7		11-Dec-14				BENT 4-2 COLUMN SEC	2		
BR-175500	BENT 4-3 COLUMN	15						BENT 4-3 COLUMN			
BR-176300	BENT 7-2 PILE	5		16-Dec-14				BENT 7-2 PILE			
BR-176600	BENT 8 PILE	20	17-Dec-14	_	_			BENT 8 PILE			
BR-176000	BENT 5-1 COLUMN SEC 1		24-Dec-14	_	_		-	BENT 5-1 COLUMN SE	 C: 1		
DR-170000	DEITH O I OCEONIN OF O I	U	24-060-14	00-0411-10				PENT 3-1 COLUMN 3E	Υ'	<u> </u>	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

						JOINT VENTURE	
Activity ID	Activity Name	OD	Start	Finish	ALCIC	2014 2015 2016 2017 2010 J.EMAM J.J.A.S.2000 J.E.WAM J.J.A.S.2000 J.E.MAM J.J.A.S.2000 J.E.WAM J.J.A.S.2000	2018
■ BR-191430	BENT 5-1 COLUMN SEC 2	7	09-Jan-15	20-Jan-15	ASS	NOJEMAMJJASONOJEMAMJJASONOJEMAMJJASONOJEMAMJJASONOJEMAMJJASONO ■ BENT 5-1 COLUMN SEC 2	JI, I M WI M J
BR-176100	BENT 5-2 COLUMN	-	09-Jan-15	30-Jan-15	-	BENT 5-1 COLUMN	
BR-176700	BENT 8 TEMP SHORING		21-Jan-15	03-Feb-15		BENT 8 TEMP SHORING	
BR-175700	BENT C1-1 COLUMN		02-Feb-15	23-Feb-15	-	BENT C1-1 COLUMN	
			02-Feb-15 04-Feb-15	10-Feb-15	-	BENT 8 EXCAVATION	
■ BR-176800 ■ BR-176900	BENT 8 EXCAVATION BENT 8 FOOTING	5 15	11-Feb-15	04-Mar-15	-	BENT 8 FOOTING	
BR-176900	BENT 6-1 COLUMN SEC 1		24-Feb-15	04-Mar-15	-	BENT 6-1 COLUMN SEC 1	
BR-177800	BENT 6-1 COLUMN SEC 2	7	06-Mar-15	16-Mar-15		BENT 6-1 COLUMN SEC 2	
		,		17-Mar-15	-	BENT 6-1 COLUMN SEC 2	
BR-177700	BENT 6-2 COLUMN SEC 1	7	06-Mar-15	26-Mar-15	-		
■ BR-191630 ■ BR-176400	BENT 6-2 COLUMN SEC 2 BENT 7-1 COLUMN SEC 1	,	18-Mar-15	27-Mar-15	-	BENT 6-2 COLUMN SEC 2	
		7	18-Mar-15		-	BENT 7-1 COLUMN SEC 1 BENT 7-1 COLUMN SEC 2	
BR-191730	BENT 7-1 COLUMN SEC 2	/	30-Mar-15	07-Apr-15	-		
BR-176500	BENT 7-2 COLUMN SEC 1	8	30-Mar-15	08-Apr-15	_	BENT 7-2 COLUMN SEC 1	
BR-191830	BENT 7-2 COLUMN SEC 2	/	09-Apr-15	17-Apr-15	_	BENT 7-2 COLUMN SEC 2	
BR-177000	BENT 8-1 COLUMN SEC 1	8	09-Apr-15	20-Apr-15	_	BENT 8-1 COLUMN SEC 1	
■ BR-191930	BENT 8-1 COLUMN SEC 2	/	21-Apr-15	29-Apr-15	_	BENT 8-1 COLUMN SEC 2	
■ BR-177100	BENT 8-2 COLUMN	-	21-Apr-15	11-May-15		BENT 8-2 COLUMN	
■ BR-177200	BENT 8 REMOVE TEMP SHORING AND BACKFILL	10	12-May-15			■ BENT 8 REMOVE TEMP SHORING AND BACKFILL	
	UPERSTUCTURE		27-Oct-14	29-Jul-16			
	ER FRAME 1 (ABUTMENT 1 TO HINGE 3)		27-Oct-14	15-May-15			
- ABUTMENT			27-Oct-14	05-Feb-15			
	BOTTOM SUPPORT / FALSEWORK - ABUTMENT 1 TO BENT 2		27-Oct-14	21-Nov-14		BOTTOM SUPPORT / FALSEWORK - ABUTMENT 1 TO BENT 2	
	BOTTOM SLAB FRP - ABUTMENT 1 TO BENT 2	17	24-Nov-14	18-Dec-14		BOTTOM SLAB FRP - ABUTMENT 1 TO BENT 2	
	TOP SLAB FRP - ABUTMENT 1 TO BENT 2 SEC 1	20	19-Dec-14	22-Jan-15		TOP SLAB FRP - ABUTMENT 1 TO BENT 2 SEC 1	
	TOP SLAB FRP - ABUTMENT 1 TO BENT 2 SEC 2	-	23-Jan-15	05-Feb-15		■ TOP SLAB FRP - ABUTMENT 1 TO BENT 2 SEC 2	
BENT 2 TO		117	24-Nov-14	15-May-15			
	BOTTOM SUPPORT / FALSEWORK - BENT 2 TO HINGE 3	20	24-Nov-14	23-Dec-14		BOTTOM SUPPORT / FALSEWORK - BENT 2 TO HINGE 3	
	BOTTOM SLAB FRP - BENT 2 TO HINGE 3		24-Dec-14	22-Jan-15		BOTTOM SLAB FRP - BENT 2 TO HINGE 3	
	TOP SLAB FRP - BENT 2 TO HINGE 3 SEC 1		23-Jan-15	20-Feb-15		TOP SLAB FRP - BENT 2 TO HINGE 3 SEC 1	
	TOP SLAB FRP - BENT 2 TO HINGE 3 SEC 2		23-Feb-15			■ TOP SLAB FRP - BENT 2 TO HINGE 3 SEC 2	
■ BR-178540	PRESTRESSING/GROUT - BENT 2 TO HINGE 3	10	09-Mar-15	20-Mar-15		■ PRESTRESSING/GROUT - BENT 2 TO HINGE 3	
	REMOVE SUPPORT/FALSEWORK - BENT 2 TO HINGE 3	10	23-Mar-15	03-Apr-15		■ REMOVE SUPPORT/FALSEWORK - BENT 2 TO HINGE 3	
■ BR-178580	BARRIER - BENT 2 TO HINGE 3	30	06-Apr-15	15-May-15		BARRIER - BENT 2 TO HINGE 3	
BOX GIRD	ER FRAME 2 (HINGE 3 TO HINGE 6)	178	24-Dec-14	14-Sep-15			
HINGE 3 TO	DENT 4	67	24-Dec-14	03-Apr-15			
■ BR-178590	BOTTOM SUPPORT / FALSEWORK - HINGE 3 TO BENT 4	20	24-Dec-14	27-Jan-15		BOTTOM SUPPORT / FALSEWORK - HINGE 3 TO BENT 4	
■ BR-178600	BOTTOM SLAB FRP - HINGE 3 TO BENT 4	17	28-Jan-15	20-Feb-15		■ BOTTOM SLAB FRP - HINGE 3 TO BENT 4	
■ BR-178610	TOP SLAB FRP - HINGE 3 TO BENT 4 SEC 1	20	23-Feb-15	20-Mar-15		■ TOP SLAB FRP - HINGE 3 TO BENT 4 SEC 1	
■ BR-192230	TOP SLAB FRP - HINGE 3 TO BENT 4 SEC 2	10	23-Mar-15	03-Apr-15		■ TOP SLAB FRP - HINGE 3 TO BENT 4 SEC 2	
BENT 4 TO	BENT 5	67	02-Feb-15	06-May-15			
■ BR-178670	BOTTOM SUPPORT / FALSEWORK - BENT 4 TO BENT 5	20	02-Feb-15	02-Mar-15		■ BOTTOM SUPPORT / FALSEWORK - BENT 4 TO BENT 5	
■ BR-178680	BOTTOM SLAB FRP - BENT 4 TO BENT 5	17	03-Mar-15	25-Mar-15		BOTTOM SLAB FRP - BENT 4 TO BENT 5	
■ BR-178690	TOP SLAB FRP - BENT 4 TO BENT 5 SEC 1	20	26-Mar-15	22-Apr-15		TOP SLAB FRP - BENT 4 TO BENT 5 SEC 1	
■ BR-192330	TOP SLAB FRP - BENT 4 TO BENT 5 SEC 2	10	23-Apr-15	06-May-15		■ TOP SLAB FRP - BENT 4 TO BENT 5 SEC 2	
BENT 5 TO	HINGE 6	117	27-Mar-15	14-Sep-15			
■ BR-178750	BOTTOM SUPPORT / FALSEWORK - BENT 5 TO HINGE 6	20	27-Mar-15	23-Apr-15		■ BOTTOM SUPPORT / FALSEWORK - BENT 5 TO HINGE 6	
■ BR-178760	BOTTOM SLAB FRP - BENT 5 TO HINGE 6	17	24-Apr-15	18-May-15		■ BOTTOM SLAB FRP - BENT 5 TO HINGE 6	

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

							JOINT VENTURE
Activity ID		Activity Name	OD	Start	Finish		2014 2015 2016 2017 2018 SONDJEMAMJJASONDJEMAMJJASONDJEMAMJJJASONDJEMAMJJJASONDJEMAMJJ
	BR-178770	TOP SLAB FRP - BENT 5 TO HINGE 6 SEC 1	20	19-May-15	17-Jun-15	1/19	TOP SLAB FRP - BENT 5 TO HINGE 6 SEC 1
		TOP SLAB FRP - BENT 5 TO HINGE 6 SEC 2		-	01-Jul-15		■ TOP SLAB FRP - BENT 5 TO HINGE 6 SEC 2
	BR-178780	PRESTRESSING/GROUT - BENT 5 TO HINGE 6		02-Jul-15	16-Jul-15		■ PRESTRESSING/GROUT - BENT 5 TO HINGE 6
E	BR-178790	REMOVE SUPPORT/FALSEWORK - BENT 5 TO HINGE 6		17-Jul-15	30-Jul-15		■ REMOVE SUPPORT/FALSEWORK - BENT 5 TO HINGE 6
		BARRIER - BENT 5 TO HINGE 6			14-Sep-15		BARRIER - BENT 5 TO HINGE 6
		R FRAME 2C (BENT 4 VIA BENT C TO BENT 5)			27-Oct-15		
		SENT C TO BENT 5			27-Oct-15		
		BOTTOM SUPPORT / FALSEWORK - BENT 4 VIA BENT C TO BENT 5		·	21-May-15		BOTTOM SUPPORT / FALSEWORK - BENT 4 VIA BENT C TO BENT 5
		BOTTOM SLAB FRP - BENT 4 VIA BENT C TO BENT 5		26-May-15	-		■ BOTTOM SLAB FRP - BENT 4 VIA BENT C TO BENT 5
		TOP SLAB FRP - BENT 4 VIA BENT C TO BENT 5 SEC 1		-	16-Jul-15		TOP SLAB FRP - BENT 4 VIA BENT C TO BENT 5 SEC 1
		TOP SLAB FRP - BENT 4 VIA BENT C TO BENT 5 SEC 2		17-Jul-15	30-Jul-15		■ TOP SLAB FRP - BENT 4 VIA BENT C TO BENT 5 SEC 2
E	BR-178880	CLOSURE AT BENT 4		31-Jul-15	13-Aug-15		CLOSURE AT BENT 4
— E	BR-178890	CLOSURE AT BENT 5	10	14-Aug-15	27-Aug-15		■ CLOSURE AT BENT 5
E	BR-178870	REMOVE SUPPORT/FALSEWORK - BENT 4 VIA BENT C TO BENT 5	10	28-Aug-15	14-Sep-15		■ REMOVE SUPPORT/FALSEWORK - BENT 4 VIA BENT C TO BENT 5
= E	BR-178900	BARRIER - BENT 4 VIA BENT C TO BENT 5		15-Sep-15	-		BARRIER - BENT 4 VIA BENT C TO BENT 5
₽ BC	OX GIRDE	R FRAME 3 (HINGE 6 TO HINGE 8)	295	26-May-15	29-Jul-16		
	IINGE 6 TO		67	26-May-15	27-Aug-15		
		BOTTOM SUPPORT / FALSEWORK - HINGE 6 TO BENT 7		26-May-15			■ BOTTOM SUPPORT / FALSEWORK - HINGE 6 TO BENT 7
- E	BR-178920	BOTTOM SLAB FRP - HINGE 6 TO BENT 7		-	16-Jul-15		BOTTOM SLAB FRP - HINGE 6 TO BENT 7
		TOP SLAB FRP - HINGE 6 TO BENT 7 SEC 1	20	17-Jul-15	13-Aug-15		■ TOP SLAB FRP - HINGE 6 TO BENT 7 SEC 1
- E	BR-192630	TOP SLAB FRP - HINGE 6 TO BENT 7 SEC 2			27-Aug-15		■ TOP SLAB FRP - HINGE 6 TO BENT 7 SEC 2
₽ BI	ENT 7 TO H	INGE 8	275	23-Jun-15	29-Jul-16		
- E	BR-178990	BOTTOM SUPPORT / FALSEWORK - BENT 7 TO HINGE 8	20	23-Jun-15	21-Jul-15		■ BOTTOM SUPPORT / FALSEWORK - BENT 7 TO HINGE 8
- E	BR-179000	BOTTOM SLAB FRP - BENT 7 TO HINGE 8	17	22-Jul-15	13-Aug-15		■ BOTTOM SLAB FRP - BENT 7 TO HINGE 8
111 = E	BR-179010	TOP SLAB FRP - BENT 7 TO HINGE 8	30	14-Aug-15	28-Sep-15		TOP SLAB FRP - BENT 7 TO HINGE 8
- E	BR-179020	PRESTRESSING/GROUT - BENT 7 TO HINGE 8	10	29-Sep-15	13-Oct-15		■ PRESTRESSING/GROUT - BENT 7 TO HINGE 8
— E	BR-179030	REMOVE SUPPORT/FALSEWORK - BENT 7 TO HINGE 8	10	03-Jun-16	16-Jun-16		■ REMOVE SUPPORT/FALSEWORK - BENT 7 TO HING
= E	BR-179060	BARRIER - BENT 7 TO HINGE 8	30	17-Jun-16	29-Jul-16		BARRIER - BENT 7 TO HINGE 8
- CAE	BLE STAY	ED BRIDGE	565	24-Jun-14	03-Oct-16		
TO	WER CRA	NE	509	24-Jun-14	13-Jul-16		
■ BR	R-184700	TOWER CRANE FOUNDATION	10	24-Jun-14	08-Jul-14		■ TOWER CRANE FOUNDATION
■ BR	R-184800	TOWER CRANE ERECTION	5	09-Jul-14	15-Jul-14		I TOWER CRANE ERECTION
■ BR	R-184900	TOWER CRANE DISMANTLE	3	01-Jul-16	06-Jul-16		I TOWER CRANE DISMANTLE
■ BR	R-185000	TOWER CRANE FOUNDATION REMOVAL/DEMO	5	07-Jul-16	13-Jul-16		I TOWER CRANE FOUNDATION REMOVAL/DEMO
- CA	BLE STA	YED BRIDGE SUBSTRUCTURE (PYLON)	325	24-Jun-14	15-Oct-15		
r sı⁻	TE PREP	ARATION/EXCAVATION	77	24-Jun-14	14-Oct-14		
■ BI	R-178100	TEMPORARY ACCESS/FENCE - PYLON	2	24-Jun-14	25-Jun-14		I TEMPORARY ACCESS/FENCE - PYLON
■ BI	R-178110	DEMO (E) TIE-BACKS	20	26-Jun-14	24-Jul-14		■ DEMO (E) TIE-BACKS
■ BI	R-178200	PYLON DIAPHRAGM WALL FOUNDATION	35	25-Jul-14	15-Sep-14		PYLON DIAPHRAGM WALL FOUNDATION
■ BI	R-178300	TEMPORARY SHORING WALL WITH PYLON FOOTING	10	16-Sep-14	29-Sep-14		■ TEMPORARY SHORING WALL WITH PYLON FOOTING
■ BI	R-183600	COMPLETE TCB AREA 1 REBRACING	0		29-Sep-14		♦ COMPLETE TCB AREA 1 REBRACING
■ BI	R-178400	EXCAVATION FOR PYLON FOOTING	10	30-Sep-14	14-Oct-14		EXCAVATION FOR PYLON FOOTING
PY	YLON ERE	CTION	248	15-Oct-14	15-Oct-15		
■ BI	R-178500	PYLON FOOTING CONSTRUCTION FRP	20	15-Oct-14	11-Nov-14		■ PYLON FOOTING CONSTRUCTION FRP
■ BI	R-178700	BACKFILL/REMOVE TEMPORARY SHORING	10	12-Nov-14	25-Nov-14		■ BACKFILL/REMOVE TEMPORARY SHORING
■ BI	R-178800	LIFT 1 SCAFFOLD	2	26-Nov-14	01-Dec-14		■ LIFT 1 SCAFFOLD
		'					

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

							JOINT VENTURE
vity ID	Activity Name	OD	Start	Finish	م ما		2016 2017 2018
— PD 170200	LIFT 1 FRP	12	02 Doc 14	17 Dog 14	AS	NDJFMAMJJASPNDJFMAMJ	JUAS SIND JE WA WIJIAS SINDII MA
			02-Dec-14	_	_	LIFT 1 FRP	
BR-179800	LIFT 2 SCAFFOLD	2	18-Dec-14	_	_	I LIFT 2 SCAFFOLD	
BR-179900	LIFT 2 FRP		22-Dec-14	12-Jan-15	_	LIFT 2 FRP	
BR-180000	LIFT 3 SCAFFOLD	2	13-Jan-15	14-Jan-15		I LIFT 3 SCAFFOLD	
BR-180100	LIFT 3 FRP	12	15-Jan-15	02-Feb-15	_	LIFT 3 FRP	
BR-180200	LIFT 3 REMOVE SCAFFOLD	5	03-Feb-15	09-Feb-15	_	LIFT 3 REMOVE SCAFFOLD	TEM OF MODIC
BR-179300	LIFT 4 (DECK BEAM) SUPPORT/FALSEWORK	20	10-Feb-15	10-Mar-15	_	LIFT 4 (DECK BEAM) SUPPOR	T/FALSEWORK
BR-179400	LIFT 4 (DECK BEAM) FRP	30	11-Mar-15	21-Apr-15	_	LIFT 4 (DECK BEAM) FRP	
■ BR-179500	LIFT 5 SCAFFOLD	3	22-Apr-15	24-Apr-15		I LIFT 5 SCAFFOLD	
BR-179600	LIFT 5 FRP		27-Apr-15	12-May-15		LIFT 5 FRP	
■ BR-180300	LIFT 6 SCAFFOLD	3	13-May-15	15-May-15	_	l LIFT 6 SCAFFOLD	
■ BR-180400	LIFT 6 FRP	12	18-May-15			■ LIFT 6 FRP	
■ BR-180600	LIFT 7 SCAFFOLDING	2	05-Jun-15	08-Jun-15		l LIFT 7 SCAFFOLDING	
■ BR-180700	LIFT 7 INSTALL ANCHOR	1	09-Jun-15	09-Jun-15		I LIFT 7 INSTALL ANCHOR	R
■ BR-180800	LIFT 7 FRP	10	10-Jun-15	23-Jun-15		■ LIFT 7 FRP	
■ BR-181100	LIFT 8 SCAFFOLDING	2	24-Jun-15	25-Jun-15		I LIFT 8 SCAFFOLDING	
■ BR-181000	LIFT 8 INSTALL ANCHOR	1	26-Jun-15	26-Jun-15		I LIFT 8 INSTALL ANCHO	OR
■ BR-180900	LIFT 8 FRP	10	29-Jun-15	13-Jul-15		□ LIFT 8 FRP	
■ BR-181400	LIFT 9 SCAFFOLDING	2	14-Jul-15	15-Jul-15		I LIFT 9 SCAFFOLDING	;
■ BR-181300	LIFT 9 INSTALL ANCHOR	1	16-Jul-15	16-Jul-15		l LIFT 9 INSTALL ANCH	HOR
■ BR-181200	LIFT 9 FRP	10	17-Jul-15	30-Jul-15		■ LIFT 9 FRP	
■ BR-181700	LIFT 10 SCAFFOLDING	2	31-Jul-15	03-Aug-15		l LIFT 10 \$CAFFOLDIN	NG
■ BR-181600	LIFT 10 INSTALL ANCHOR	1	04-Aug-15	04-Aug-15		I LIFT 10 INSTALL AND	ICHOR
■ BR-181500	LIFT 10 FRP	10	05-Aug-15	18-Aug-15		■ LIFT 10 FRP	
■ BR-182000	LIFT 11 SCAFFOLDING	2	19-Aug-15	20-Aug-15		I LIFT 11 SCAFFOLD	JING
■ BR-181900	LIFT 11 INSTALL ANCHOR	1		21-Aug-15	_	l LIFT 11 INSTALL AF	NCHOR
■ BR-181800	LIFT 11 FRP	10	24-Aug-15	08-Sep-15	_	☐ LIFT 11 FRP	
■ BR-182300	LIFT 12 SCAFFOLDING		09-Sep-15			l LIFT 12 SCAFFOL	_DING
■ BR-182200	LIFT 12 INSTALL ANCHOR	1	11-Sep-15	11-Sep-15		I LIFT 12 INSTALL A	ANCHOR
BR-182100		10	14-Sep-15			LIFT 12 FRP	
BR-182600	LIFT 13 SCAFFOLDING		28-Sep-15			l LIFT 13 SCAFFO	OLDING
	LIFT 13 INSTALL ANCHOR	1		30-Sep-15	_	I LIFT 13 INSTALL	
BR-182400		10	01-Oct-15		_	LIFT 13 FRP	
	YED BRIDGE SUPERSTUCTURE		05-Aug-15			[
BR-179100	TEMPORARY ACCESS/FENCE		05-Aug-15	18-Aug-15		■ TEMPORARY ACCE	ESS/EENCE
BR-179700	TEMPORARY SUPPORT/FALSEWORK INSTALLATION (NORTH)		03-Aug-13 01-Sep-15		_		SUPPORT/FALSEWORK INSTALLATION (NORTH)
BR-182800	SECTION NORTH BOTTOM FRP	25		19-Nov-15	_		ORTH BOTTOM FRP
BR-180500	TEMPORARY SUPPORT/FALSEWORK INSTALLATION (SOUTH)	30	16-Oct-15	30-Nov-15	_		OKTH BOTTOM FRP RY SUPPORT/FALSEWORK INSTALLATION (SOUT
BR-183000	SECTION NORTH TOP FRP		20-Nov-15	_	-		NORTH TOP FRP
BR-183200	SECTION SOUTH POTTOM FRR	10	15-Dec-15	_	_		NORTH PRESTESSING/GROUT
BR-182700	SECTION SOUTH FOR FRE	25	15-Dec-15	22-Jan-16	_		N SOUTH BOTTOM FRP
BR-182900	SECTION SOUTH TOP FRP	15	25-Jan-16	12-Feb-16	_		ON SOUTH TOP FRP
BR-183100	SECTION SOUTH PRESTESSING/GROUT		16-Feb-16	29-Feb-16	_		FION SOUTH PRESTESSING/GROUT
BR-188300	TEMPORARY SUPPORT/FALSEWORK REMOVAL (NORTH)	10	03-Jun-16	16-Jun-16			TEMPORARY SUPPORT/FALSEWORK REMOV
BR-188400	TEMPORARY SUPPORT/FALSEWORK REMOVAL (SOUTH)	10	17-Jun-16	30-Jun-16			■ TEMPORARY SUPPORT/FALSEWORK REMOV
_	YED BRIDGE CABLE INSTALLATION	66	01-Mar-16				
■ BR-188200	C7 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	01-Mar-16	04-Mar-16	L		ABLE INSTALLATION / PRESTRESSING / CABLE I

Layout: Exhibit I
TASK filters: Not Complete, Not VOID Activities,
TG18.1.

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30

TRANSBAY TRANSIT CENTER

TG18.1 EXHIBIT I SCHEDULE

A (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.6-c. (6. No		10	1=		—	2011		JOINT VENTURE
Activity ID	Activity Name	OD	Start	Finish	AISIO	JI DINIC	2014 2015 JFMAMJJASPNDJFMAMJJASPND	2016 J F M A M J J A S D N E	2017 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2
■ BR-187900	C8 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	07-Mar-16	10-Mar-16	-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\				LATION / PRESTRESSING / CABLE DUMF
BR-188000	C6 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	11-Mar-16	16-Mar-16					LATION / PRESTRESSING / CABLE DUMI
BR-187700	C9 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	17-Mar-16	22-Mar-16		-			LATION / PRESTRESSING / CABLE DUM
BR-187800	C5 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	23-Mar-16	28-Mar-16				C5 CABLE INSTA	LLATION / PRESTRESSING / CABLE DUM
■ BR-187500	C10 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	29-Mar-16	01-Apr-16	_				ALLATION / PRESTRESSING / CABLE DU
BR-187600	C4 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	04-Apr-16	07-Apr-16				I C4 CABLE INSTA	LLATION / PRESTRESSING / CABLE DUI
■ BR-187300	C11 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	08-Apr-16	13-Apr-16				C11 CABLE INS	TALLATION / PRESTRESSING / CABLE DI
■ BR-187400	C3 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	14-Apr-16	19-Apr-16				C3 CABLE INST	ALLATION / PRESTRESSING / CABLE DU
■ BR-187100	C12 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	20-Apr-16	25-Apr-16				C12 CABLE INS	TALLATION / PRESTRESSING / CABLE D
■ BR-187200	C2 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	26-Apr-16	29-Apr-16				C2 CABLE INS	TALLATION / PRESTRESSING / CABLE D
■ BR-187000	C13 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	02-May-16	05-May-16				I C13 CABLE IN	STALLATION / PRESTRESSING / CABLE I
■ BR-186900	C1 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	06-May-16	11-May-16				C1 CABLE INS	TALLATION / PRESTRESSING / CABLE D
■ BR-188100	C14 CABLE INSTALLATION / PRESTRESSING / CABLE DUMPER INSTALLATION	4	12-May-16	17-May-16				I C14 CABLE IN	STALLATION / PRESTRESSING / CABLE
■ BR-188500	TIE IN CABLE STAYED TO VIADUCT (HINGE 8)	10	18-May-16	02-Jun-16				■ TIE IN CABL	STAYED TO VIADUCT (HINGE 8)
STEEL BOX	GIRDERS	134	23-Mar-16	03-Oct-16					
WEST		114	23-Mar-16	01-Sep-16					
■ BR-189300	INSTALL SUPPORTS IN TRAIN BOX - WEST	20	23-Mar-16	19-Apr-16				■ INSTALL SUPPO	RTS IN TRAIN BOX - WEST
■ BR-189200	INSTALL SUPPORTS ABOVE GRADE - WEST	20	20-Apr-16	17-May-16				■ INSTALL SUP	PORTS ABOVE GRADE - WEST
■ BR-189100	ERECT BOX GIRDER W-1	2	18-May-16	19-May-16				I ERECT BOX	IRDER W-1
■ BR-189000	ERECT BOX GIRDER W-2	2	20-May-16	23-May-16				■ ERECT BOX	GIRDER W-2
■ BR-188900	CONNECT BOX GIRDERS - WEST	20	24-May-16	22-Jun-16				CONNECT	BOX GIRDERS - WEST
■ BR-188800	INSTALL CONNECTIONS TO CABLE STAYED BRIDGE - WEST	10	23-Jun-16	07-Jul-16				■ INSTALL (ONNECTIONS TO CABLE STAYED BRID
■ BR-188700	INSTALL CONNECTIONS TO TTC / INSTALL EXPANSION JOINT - WEST	15	08-Jul-16	28-Jul-16				■ INSTALL	CONNECTIONS TO TTC / INSTALL EXPA
■ BR-188600	REMOVE SUPPORTS - WEST	10	29-Jul-16	11-Aug-16				■ REMOV	'E SUPPORTS - WEST
■ BR-189500	INSTALL BARRIER BASE CONCRETE - WEST	10	12-Aug-16	25-Aug-16				■ INSTA	L BARRIER BASE CONCRETE - WEST
■ BR-189400	INSTALL BARRIER - WEST	5	26-Aug-16	01-Sep-16				I INSTA	LL BARRIER - WEST
EAST		134	23-Mar-16	03-Oct-16					
BR-189700	INSTALL SUPPORTS IN TRAIN BOX - EAST	20	23-Mar-16	19-Apr-16				■ INSTALL SUPPO	RTS IN TRAIN BOX - EAST
■ BR-189800	INSTALL SUPPORTS ABOVE GRADE - EAST	20	20-Apr-16	17-May-16				■ INSTALL SUP	PORTS ABOVE GRADE - EAST
■ BR-189900	ERECT BOX GIRDER E-1	2	24-May-16	25-May-16				I ERECT BOX	GIRDER E-1
■ BR-190000	ERECT BOX GIRDER E-2	2	26-May-16	31-May-16				■ ERECT BOX	GIRDER E-2
■ BR-190100	CONNECT BOX GIRDERS - EAST	20	23-Jun-16	21-Jul-16				CONNEC	T BOX GIRDERS - EAST
■ BR-190200	INSTALL CONNECTIONS TO CABLE STAYED BRIDGE - EAST	10	22-Jul-16	04-Aug-16				■ INSTALI	CONNECTIONS TO CABLE STAYED BR
■ BR-190300	INSTALL CONNECTIONS TO TTC / INSTALL EXPANSION JOINT - EAST	15	05-Aug-16	25-Aug-16				■ INSTA	L CONNECTIONS TO TTC / INSTALL EXI
■ BR-190400	REMOVE SUPPORTS - EAST	10	26-Aug-16	12-Sep-16				■ REMO	VE SUPPORTS - EAST
■ BR-190500	INSTALL BARRIER BASE CONCRETE - EAST	10	13-Sep-16	26-Sep-16				I INST	ALL BARRIER BASE CONCRETE - EAST
■ BR-190600	INSTALL BARRIER - EAST	5	27-Sep-16	03-Oct-16				I INS	TALL BARRIER - EAST
ELECTRICAL		20	04-Oct-16	01-Nov-16					
■ BR-190610	BRIDGE LIGHTING	10	04-Oct-16	18-Oct-16				■ BR	IDGE LIGHTING
■ BR-190620	TRAFFIC SIGNAL CONTROLS	10	19-Oct-16	01-Nov-16				□ TI	AFFIC SIGNAL CONTROLS
MECHANICA	L-	20	04-Oct-16	01-Nov-16					
■ BR-190630	BRIDGE DRAINAGE	10	04-Oct-16	18-Oct-16				■ BR	DGE DRAINAGE
■ BR-190640	MISCELLANEOUS METAL	10	19-Oct-16	01-Nov-16				■ M	SCELLANEOUS METAL
APPURTENA	INCES	184	01-Aug-16	26-Apr-17					
■ BR-183400	SECURITY GATE AND BOOTH	30	01-Aug-16	13-Sep-16				SECU	RITY GATE AND BOOTH
■ BR-190650	TRAFFIC SIGNAGE	10	02-Nov-16	15-Nov-16	1			D 1	RAFFIC SIGNAGE
	-							1	1

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

TRANSBAY TRANSIT CENTER

Project ID: 30100-TG18.1 Print Date: 04-Nov-13, 12:30





ity ID	Activity Name	OD	Start	Finish	ŀ	2014	2015	2016	2017	2018
					A S D	NDJFMAMJJASJND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJ.
■ BR-183300	PAVEMENT	20	16-Nov-16	15-Dec-16					PAVEMENT	
■ BR-190660	TRAFFIC DELINEATOR	10	16-Dec-16	30-Dec-16					TRAFFIC DELINEATOR	
BR-190670	TRAFFIC STRIPING	10	03-Jan-17	17-Jan-17					TRAFFIC STRIPING	
■ BR-190680	TRAFFIC SIGNALS	10	18-Jan-17	31-Jan-17					■ TRAFFIC SIGNALS	
■ BR-190690	BRIDGE COMISSIONING/FINAL INSPECTION	60	01-Feb-17	26-Apr-17					BRIDGE COMIS	SIONING/FIN
BUS RAMP	CONTRACT COMPLETION	31	27-Apr-17	12-Jun-17						
BR-100400	BUS RAMP SUBSTANTIAL COMPLETION	1	27-Apr-17	27-Apr-17					I BUS RAMP SUE	STANTIAL CO
BR-100500	BUS RAMP PUNCHLIST	30	28-Apr-17	12-Jun-17					BUS RAMP F	UNCHLIST
■ BR-100600	BUS RAMP FINAL COMPLETION	0		12-Jun-17	1				♦ BUS RAMP F	INAL COMPL

Layout: Exhibit I TASK filters: Not Complete, Not VOID Activities, TG18.1.

WO0000-011400W01.7





Webcor/Obayashi Joint Venture Contractor Quality Control Program for the

Transbay Transit Center Project

August 27, 2012 Rev 7.0





WEBCOR/OBAYASHI JOINT VENTURE CONTRACTORS QUALITY CONTROL PROGRAM TRANSBAY TRANSIT CENTER PROJECT

INDEX

TAB 1: QUALITY CONTROL ORGANIZATION

TAB 2: RESPONSIBILITIES & QUALIFICATIONS

TAB 3: APPOINTMENTS

TAB 4: SUBMITTAL MANAGEMENT & DOCUMENT CONTROL

TAB 5: INSPECTION AND TESTING

TAB 6: QUALITY CONTROL PROCESS

TAB 7: NON-CONFORMANCE

TAB 8: REPORTING PROCEDURES

TAB 9: DEFINABLE FEATURES OF WORK

TAB 10: TRAINING

TAB 11: DESIGN CONTROL

TAB 12: FORMS

This Webcor/Obayashi JV Contractors Quality Control Plan will be developed incrementally as the trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of the Webcor/Obayashi JV's overall Contractor's Quality Control Plan and will be submitted to the Transbay Joint Power Authority as they are received

Tab 0 Page **1** of **1** W/O CQC Plan TTC Rev 7 8/27/12

1. QUALITY CONTROL ORGANIZATION • QUALITY CONTROL OVERVIEW DEFINITIONS ORGANIZATION CHART SHOWING LINES OF AUTHORITY



1. QUALITY CONTROL OVERVIEW

OVERVIEW

Project quality is the responsibility of all members of the project team and starts at the highest level of management. This Quality Management Plan details the specific processes by which the Project's quality will be managed and forms the basis upon which Webcor/Obayashi JV will ensure that all quality requirements for the Transbay Transit Center are met. The Plan integrates the quality management process into the Webcor/Obayashi JV organizational structure and construction management systems. Key elements of the plan include:

- The commitment of the Webcor/Obayashi JV Senior management to delivering a project that meets the Transbay Transit Center quality standards.
- Accepted project specific construction management policies, procedures and tools for the control of project information and the management of the construction documents, submittals and the work of the trade subcontractors.
- A Webcor/Obayashi JV project-specific quality plan that meets the TJPA and FTA quality requirements
- Trade Subcontractor, site specific, quality plans that meet TJPA and FTA quality requirements
- Consistent CQC staff oversight- the Webcor/Obayashi JV CQC Manager and the Trade Subcontractors CQC Managers will have a physical presence on site when work is in progress.

FEDERAL TRANSIT ADMINISTRATION GUIDELINES

The Webcor/Obayashi JV Contractors Quality Management Plan incorporates the fifteen elements of the Federal Transit Administrations Quality Assurance and Quality Control Guidelines as appropriate for Webcor/Obayashi's scope of work.

- 1. Management responsibility
- 2. Documented quality management system
- 3. Design control
- 4. Document control
- 5. Purchasing
- 6. Product identification and traceability
- 7. Process control

- 8. *Inspection and testing*
- 9. Inspection, measuring and test equipment
- 10. Inspection and test status
- 11. Non conformance
- 12. Corrective action
- 13. Quality records
- 14. Quality audits
- 15. Training

Tab 1 Page **1** of **5** 8/27/12

W/O CQC Plan TTC Rev 7

4 of 93

WO-CQC0001.7



DEFINITIONS:

- **Contractor** Webcor/Obayashi Joint Venture.
- Coordination Meeting (Meeting of Mutual Understanding) A meeting held after the preconstruction conference for each Trade Work Package and before start of construction. Contractor shall meet with the TJPA Representative and TJPA QA Manager and discuss the Contractor's quality control system as it relates to the work of the trade package. Submit the CQC Plan a minimum of 15 days prior to the coordination meeting. During the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's management and control with the TJPA Representative's quality assurance. Minutes of the meeting will be prepared by the TJPA Representative, signed by both the Contractor and the TJPA Representative and will become a part of the Contract file. There may be occasions when subsequent conferences will be called by either party to confirm mutual understandings and/or address deficiencies in the CQC system or procedures that may require corrective action by the Contractor.
- Corrective Action Plan A written document submitted by the Trade Subcontractor detailing the Trade Contractor's approach to correct an item of work that fails to conform to the project requirements.
- Corrective Action Request A written request from TJPA to develop a Corrective Action Plan for non-conforming work (TJPA form QA-09-01) that establishes a method for ensuring deficiencies in process or implementation adversely affecting quality are identified, cause determined, and an action plan to prevent recurrence is documented.
- CQC Field Specialist In addition to CQC personnel specified elsewhere in the Contract, Contractor shall provide as part of the CQC organization specialized personnel as required to implement the CQC Plan who may be employees of the prime or Trade Subcontractor, be responsible to the CQC System Manager, be physically present at the construction site during work on their areas of responsibility, and have the necessary education or experience. These individuals may perform other duties but must be allowed sufficient time to perform their assigned quality control duties as described in the CQC Plan. A single person may cover more than one area provided that the person is qualified to perform QC activities in each designated area and the workload allows.
- **CQC Manager** The Webcor/Obayashi JV Manager who is responsible for managing the Contractor's CQC System.
- CQC Manager's Monthly CQC Report A section of the Contractors monthly written report prepared and submitted by the CQC Manager which reports Trade Subcontractors monthly CQC activities.

Tab 1 Page **2** of **5** W/O CQC Plan TTC Rev 7 8/27/12

WO-CQC0001.7 5 of 93



- CQC Plan Webcor/Obayashi JV written quality management plan that meets the
 requirements of the TJPA Program QMS as appropriate for Webcor/Obayashi's JV scope of
 work and the means by which Webcor/Obayashi JV (the Contractor) and its Trade
 Subcontractors ensure project quality.
- **Daily CQC Report Log** A log of the Trade Subcontractors daily CQC reports, maintained by the W/O CQC Manager.
- Daily Contractor Quality Control Report A daily written report providing evidence that required quality control activities and tests have been performed including the work of Trade Subcontractors and Suppliers. These reports shall address deficient features and include a statement that equipment and materials incorporated in the Work and workmanship comply with the Contract. These reports shall be furnished to the TJPA Representative daily within 5 working days after the date covered by the report. Reports shall be signed and dated by the CQC System Manager. Copies of reports shall be prepared by all subordinate quality control personnel and be included within the CQC System Manager's report.
- **Definable Feature of Work (DFOW)** A definable feature of work is a task that is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each section of the Specifications may generally be considered as a definable feature of work, there are frequently more than one definable feature under a particular section. This list will be agreed upon during the coordination meeting.
- **Federal Transit Administration (FTA)** An administration within the U.S. Department of Transportation that provides stewardship to support a variety of locally planned, constructed, and operated public transportation systems throughout the United States.
- Initial Phase Checklist A checklist prepared by the Trade Subcontractors CQC Manager for each Definable Feature of Work (DFOW) in the Initial work Phase per 01 14 00 1.9.C.
- Master Definable Feature of Work List The project list definable features of work for all trade subcontractors maintained by the Webcor/Obayashi JV CQC Manager.
- **Non-conformance Report** A written report entered in Vela Systems describing non-conforming Work.
- Non-conforming Work Work that is unsatisfactory, faulty, defective, or deficient; Work that does not conform to the requirements of the Contract Documents; Work that does not meet the requirements of inspection, reference standards, tests, or approval referred to in the Contract Documents; or Work that has been damaged prior to Final Completion.
- Phase 1: Preparatory Phase An activity including a meeting led by the Webcor/Obayashi JV CQC Manager and attended by the Trade Subcontractors CQC Manager, the Subcontractor's Production Team, Trade Subcontractors Representatives, Inspectors, and TJPA representatives, this is the first of the three phases of control where all requirements of the work: drawings, specifications, submittals, RFI's, installation and coordination issues are reviewed before beginning any Definable Feature of Work (DFOW). This meeting builds the

Tab 1 Page **3** of **5** W/O CQC Plan TTC Rev 7 8/27/12

WO-CQC0001.7 6 of 93



work on "paper" prior to the start of work in the field, and is an effort to build consensuses among the all parties on how the work will conform to the project requirements. The information and agreements developed in this meeting are transferred to the Initial Work Phase meeting.

- Phase 2: Initial An activity including a meeting led by the Webcor/Obayashi JV CQC Manager and attended by the Trade Subcontractors CQC Manager, the Subcontractor's Production Team, Trade Subcontractors Representatives, Inspectors, and TJPA representatives is held immediately prior to the start of the work. Using the meeting minutes from the Preparatory Phase meeting, this meeting transfers the information and requirements and agreements to the crews performing the work.
- **Phase 3: Follow-up Phase** Daily checks performed by the QC System Manager to assure that control activities, including control testing, are providing continued compliance with contract requirements, until completion of that particular feature of work. Record the checks in the CQC documentation.
- **Preparatory Phase Checklist** A checklist prepared by the Trade Subcontractors CQC Manager for each Definable Feature of Work (DFOW) in the Preparatory Phase per 01 14 00 1.9.B.(See Tab 120 "Forms" Preparatory Phase Checklist).
- Quality Conformance to the requirements established by the contract documents.
- Quality Control Plan An approved written plan which includes procedures, and organization necessary to produce an end product that complies with the Contract requirements. The plan covers all construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence
- Quality Inspection An Inspection of the work performed as the work progresses or prior to calling for an Agency, Code or Special Inspection to confirm the work meets the requirements of the Contract Documents.
- **Quality Management** Management of Quality control and quality assurance activities instituted to achieve the quality levels established by the contract documents.
- Quality Management System Manual Issued by URS for the Transbay Transit Center and provides specific requirements for Program implementation based upon the Program Quality Policy and the FTA Quality Assurance and Quality Control Guidelines and is the guide for all members of the Program Management Team to deliver a project that meets the highest quality standards (reference: Transbay Transit Center QMSM, Introduction, page 1).
- **Submittal Log** A written list indicating the status of all Submittals required by the Contract Documents, maintained by the Webcor/Obayashi Joint Venture production team.
- **Technical Specifications** Divisions 01 through 33 of the project specifications.
- Three Phases of Control The three meetings or actions that bring the Trade Subcontractors CQC Managers, Contractor's Production Team, Inspectors, TJPA

Tab 1 Page **4** of **5** W/O CQC Plan TTC Rev 7 8/27/12

WO-CQC0001.7 7 of 93

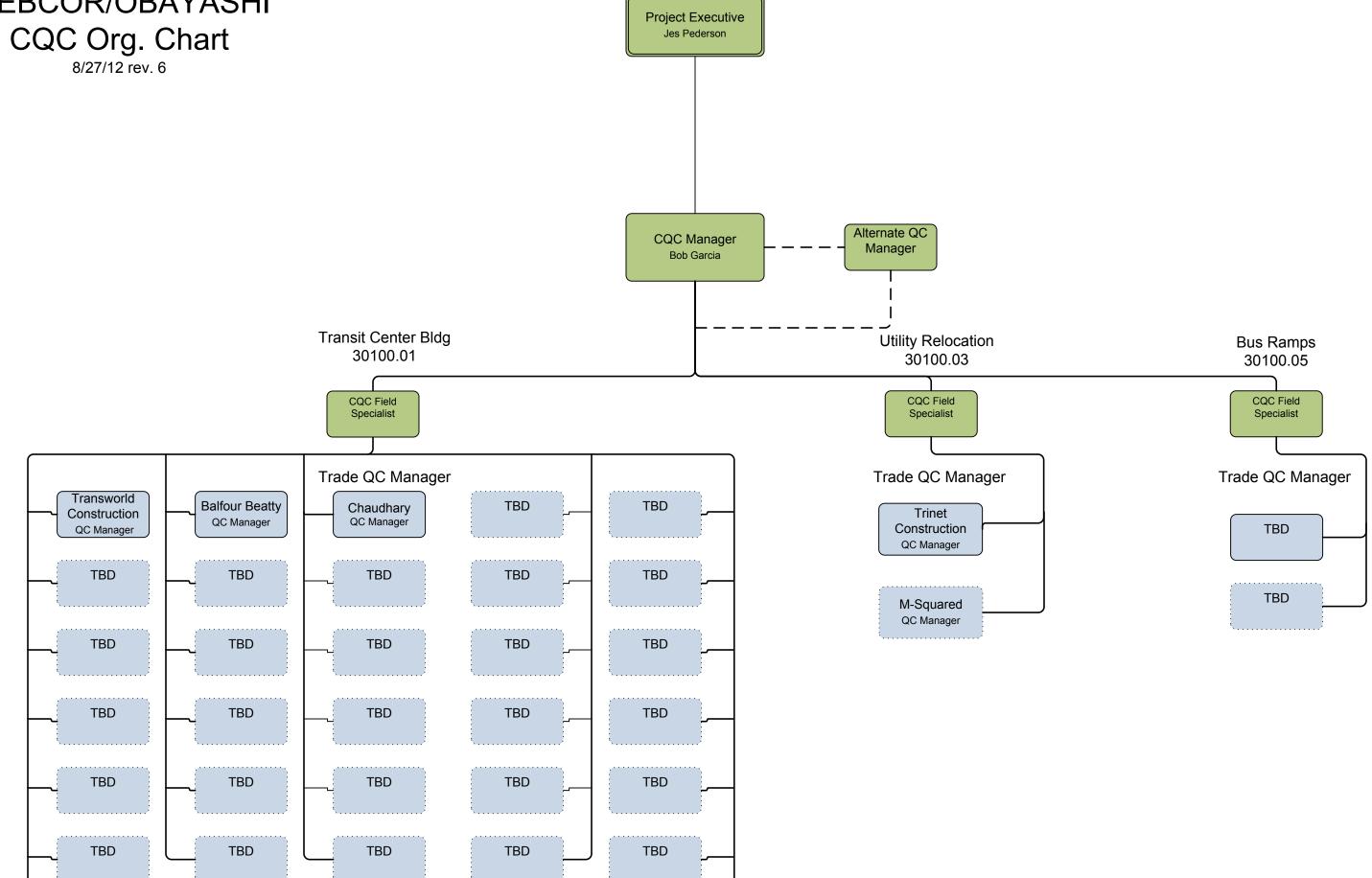


representatives and/or field crews together to plan and implement project quality: The three phases of control include: The Preparatory Phase, Initial Phase and Follow-up Phase.

- TJPA Construction Management Oversight Manager: Turner Construction.
- **TJPA:** Transbay Transit Center Joint Powers Authority.
- Trade Subcontractor CQC Manager The Trade Subcontractor employee accepted by Webcor/Obayashi JV who is responsible for managing the Trade Subcontractor's CQC System, and reports to the Webcor/Obayashi JV CQC Manager.
- **Trade Subcontractor's CQC Plan** The Trade Subcontractors written quality management plan that meets the requirements of the TJPA Program QMS as appropriate for the Trade Subcontractors scope of work and is the means by which the Trade Subcontractors ensure project quality.
- Trade Subcontractor's Definable Feature of Work List. The list of definable features of the work prepared by the Trade Subcontractors and submitted for approval to the Webcor/Obayashi JV CQC Manager
- Trade Subcontractors Daily Quality Control Report The Trade Subcontractors Quality
 Manager's daily report that describes: the work completed, quality measures implemented,
 testing and inspections preformed, rework items identified, and deliveries received and asbuilt drawings updated. (See Tab 12 "Forms" Trade Subcontractors Daily Quality Control
 Report).
- Vela Systems Field Management Software for construction. Vela Systems combines mobile technologies and BIM at the point of construction with reporting for management. Vela Systems field management software uses a combination of technologies including the Internet, tablets, and email-capable phones. Licensed users must have a high-speed Internet connection in the office and are responsible for procuring the necessary hardware required for field staff to use the software. License fees for the use of Vela Systems software are the responsibility of the TJPA. There is no software license fee to the CM/GC or Subcontractors. All Subcontractors are required to use the Vela Systems software, as described in Specification Section 01 31 25. Reporting features include Field Condition Reports, Inspection Requests, Non-conformance Reports and Punch lists.

WO-CQC0001.7 8 of 93

WEBCOR/OBAYASHI



WO-CQC0001.7 9 of 93

2. RESPONSIBILITIES AND QUALIFICATIONS

- DUTIES, RESPONSIBILITIES, AND AUTHORITIES OF CQC TEAM MEMBERS
- TRADE SUBCONTRACTOR DUTIES
- CQC MANAGER RESUME
- ALTERNATE CQC MANAGER RESUME

WO-COC0001 7

40 - 600



2. QUALITY CONTROL RESPONSIBILITIES/ QUALIFICATIONS

RESPONSIBILITIES

Webcor/Obayashi JV will be responsible for implementing this Contractors Quality Control Plan and assuring that Trade Subcontractors prepare and implement trade package specific CQC Plans. Webcor/Obayashi JV CQC Field Specialists will provide day to day oversight of the CQC System to assure Trade Subcontractor work conforms to the requirements of Transbay Transit Center Contract Documents and this Webcor/Obayashi JV CQC Plan.

Webcor/Obayashi JV will direct Trade Subcontractors to execute their CQC plans and maintain compliance with all project requirements as described in the Contract Documents. Contracts with Trade Subcontractors and Sub-tier Subcontractors shall include a requirement to comply with the provisions of this Plan, and to prepare and execute CQC plans appropriate for their scope of work. The Trade Subcontractors, Sub-tier Subcontractors are authorized to manage their own CQC Plans. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this CQC Plan and their trade package specific CQC Plans.

MANAGEMENT RESPONSIBILITY

Webcor/Obayashi JV fully integrates this quality management plan into the organizational structure and performance management systems of the project.

- Maintain and follow a documented Quality System consisting of a Site Specific Quality Manual with policies and procedures.
- Establish and implement project management procedures.
- Maintain Quality System documents and records.

PROJECT EXECUTIVE QUALITY RESPONSIBILITIES

The Project Executive of Webcor/Obayashi JV is the one person in the company ultimately responsible for quality. Regardless of other duties, quality responsibilities of the Project Executive include:

- Empower the Webcor/Obayashi JV Transbay Transit Center CQC Manager to perform the CQC duties described in the contract documents.
- Oversee the projects quality plan and objectives.
- Ensure the availability of necessary resources and information for effective operation of the CQC System.

Tab 2 Page **1** of **17** W/O CQC Plan TTC Rev 7 8/27/12



WEBCOR/OBAYASHI JV CQC MANAGER DUTIES AND RESPONSIBILITIES

The CQC Manager, or his approved alternate, oversees the overall implementation of the Webcor /Obayashi JV Quality Control Plan. The CQC manager, when performing the duties of the CQC manager, will be independent of the "production organization". The CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. The Webcor/Obayashi CQC Manager or Alternate CQC Manager will have a physical presence on site when work is in progress. In the event of the CQC Managers absence, the Alternate CQC Manager must be present and will have the same authority as the CQC Manager.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TJPA for acceptance.
- Manage the development and maintenance of the list of Definable Features of Work.
- Attend the Coordination Meeting (Meeting of Mutual Understanding) for each Trade Work Package.
- Provide management with monthly CQC updates.
- Ensure Trade Subcontractor's application of Three Phases of Control for each Definable Feature of Work. Track status of required control meetings for each DFOW.
- Conduct the Preparatory, Initial and Follow-up phase activity meetings.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken in Vela Systems
- Ensure that all Trade Subcontractors CQC Plans are in conformance with the Webcor /Obayashi JV CQC plan and with the requirements of the Contract Documents.
- Ensure that all Trade Subcontractors certify their submittals for conformance with the requirements of the Contract Documents.
- Ensure W/O staff document review and approval of submittals prior to transmission to the CMO.
- Review and approve Webcor/Obayashi JV Daily Quality Control reports (see Form in Tab 12).



- Prepare and submit Daily Contractor Quality Control reports
- Ensure that all Trade Subcontractors prepare and submit Daily Quality Control reports.
- Maintain copies of all quality control and quality program documents.
- Support and facilitate QMS Audit process.

WEBCOR/OBAYASHI JV ALTERNATE CQC MANAGER DUTIES AND RESPONSIBILITIES

The Alternate CQC Manager performs all duties of the CQC Manager when the CQC Manager is not on-site. The Alternate CQC manager, when performing the duties of the CQC Manager, is independent of the "production organization". The Alternate CQC Manager's responsibilities are the same as the CQC Managers

TRADE SUBCONTRACTORS CQC MANAGER DUTIES/RESPONSIBILITIES:

The Trade Subcontractor CQC Manager reports to the Webcor /Obayashi JV CQC Manager and oversees the trade specific implementation of the quality control program and whose primary responsibility will be to implement the Trade Subcontractor's quality control plan. The Trade Subcontractor CQC manager will certify that the Trade Subcontractor's work is in compliance with the Contract Documents and complies with the Webcor/Obayashi Joint Venture Quality Control Plan and all quality control requirements contained in the Contract Documents, including specification section 01 14 00 Quality Control. The Trade Subcontractor CQC Manager will:

- Manage the Trade Subcontractors Quality Control Program on and off site.
- Submit a CQC Plan that meets the requirements of the Webcor/Obayashi CQC Plan, Specification 01 14 00 Quality Control and the TTC Quality Management System Manual
- The Trade Subcontractor CQC Manager or alternate will have a physical presence on site when work is in progress.
- Designate an Alternate Trade Subcontractor CQC Manager to serve in the event of the Trade Subcontractor CQC Managers absence.
- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents.
- Submit daily Quality Control Reports to the Webcor/Obayashi JV CQC Manager.
- Submit Preparatory and Initial Phase Checklists, along with Follow-up Phase documentation for each DFOW to the Webcor/Obayashi JV CQC Manager.



- Establish written procedures for Trade Subcontractor document control, submittal management and material procurement.
- Maintain and submit copies of all quality control documentation, certifications, and materials delivery receipts as required in the Contract Documents.
- Attend the Coordination meetings (Meeting of Mutual Understanding).
- Manage the Three Phases of Control process for each DFOW, including attending the Preparatory, Initial and Follow-up phase activity meetings for each of the trade subcontractors DFOW.
- Immediately stop any work, for which they are responsible, that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.
- Ensure that all Work performed, on and off the construction site, and all materials and equipment conform to requirements of the Contract Documents. Report non-conformances and corrective action planned and taken in Vela Systems.
- Remove any person from the Project that consistently fails to perform Work properly.
- Ensure that the Trade Subcontractors submittals conform to the requirements of the Contract Documents.
- Provide verification to the Webcor/Obayashi JV CQC Manager of Trade Subcontractors task completion prior to the work being inspected.
- Provide verification to the Webcor/Obayashi JV CQC Manager of Trade Subcontractors task completion prior to requesting final inspections.
- Facilitate inspections and tests.
- Cooperate with testing agency personnel.
- Provide access to the Work.
- Obtain and handle samples and equipment as defined in section 01 13 00 Submittals. Furnish storage and assistance as requested.
- Trade Subcontractor shall include within their quality assurance plan per Specification Section 01 16 00 1.3 Quality Assurance, procedures for full protection of Work and materials.
- Where required, deliver samples to testing agency.
- Take steps to ensure no portion of the work requiring testing or inspection is covered prior to the acceptance by authorized parties.



- Ensure that no testing or inspection is scheduled until all approvals for the work have been received. This includes welder's certifications, submittals, design/build engineering stamp and certification.
- Maintain as-built drawings per 01 17 20 Project As-Built Drawings.
- Support and facilitate QMS Audit process.

QUALIFIED SUBCONTRACTORS AND SUPPLIERS.

- As part of bid package development Webcor/Obayashi JV will prepare trade package specific subcontractor prequalification requirements. These prequalification's are submitted to, and reviewed by the TJPA. The pre-qualification requirements are then included in the project bidding manual.
- Prior to contract award Webcor/Obayashi JV verifies that all trade subcontractors and suppliers meet the project requirements as outlined in the project bidding manual and contract documents.

WO-CQC0001.7 15 of 93



QUALIFICATIONS

BOB GARCIA

Quality Manager

EDUCATION AND BACKGROUND

As the Contractors Quality Control System Manager, Mr. Garcia has primary responsibility of managing the Contractors Quality Management System. His duties include drafting the project specific CQC plan and ensuring Trade Subcontractor compliance via implementation of specified process controls. He is the day to day interface between project production and quality management to assure the owner that the work conforms to the project requirements. He is responsible for documenting quality compliance and providing senior management with periodic quality reports.

Mr. Garcia graduated with a BA in Biology/Chemistry from San Jose State University in 1975. His 32 years of construction and quality management experience includes developing project specific and company-wide quality management programs for both private and public works construction projects. He has taken additional coursework on management leadership, financial and risk management, and exterior envelope systems.



RELEVANT QUALITY EXPERIENCE

Transbay Transit Center San Francisco, CA

2010-Present: Manager of CM/GC Quality Control System. Developed and implemented CM/GC Quality Management Program based upon the Federal Transit Administration's 15 Elements of Contractors Quality Control Guidelines, including construction process controls based upon NAVFAC/USAEC Three Phases of Control.

The Transbay Transit Center Project in downtown San Francisco will transform transportation in California and stimulate the economy by building the "Grand Central of the West." As the largest approved public transportation project in the country, the project will replace the current Transbay Terminal at First and Mission streets in San Francisco with a modern regional transit hub connecting eight counties in the Bay Area and the State of California through nine transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, MUNI, SamTrans, WestCAT and future High Speed Rail from San Francisco to Los Angeles. Additionally, it will extend Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center and create a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center.

Cleveland Clinic Abu Dhabi Hospital United Arab Emirates

2010: Sixco/Samsung Joint Venture Document Control Manager- As part of the Quality Management effort, developed a sophisticated document management system which established the protocol for maintaining the conforming construction documents and document distribution system to assure that all project documents were current and only the most recent versions were immediately available to the construction team (Element 4: Document Control of the FTA Quality Control Guidelines). Documents controlled included over 18,000 drawing pages, 18 specification sections and 30,000+ shop drawings and drawing revisions for: structural steel, building curtain wall, mechanical, electrical, plumbing, fire life safety, medical gas systems and other hospital process systems.

Cleveland Clinic Abu Dhabi is a state-of-the-art hospital that brings the most advanced medical services of diagnostic and treatment capabilities in the region. The clinic specializes in innovative technologies in surgery, imaging, telemedicine, and electronic medical record systems that are integrated into five institutes: Gastroenterology, Eye, Heart and Vascular, Neurological, and Respiratory and Critical Care. Total of 2,600,000 sf and 360 beds. \$1.7 billion.



Turner Construction Co. Oakland, CA

2006-2009: Quality Control Manager for Turner Construction Company's Northern California Business Unit. Served as the manager for the Business Units Construction Defect Task Force and developed Quality Control procedures for the business unit and specific projects. Developed curriculum and conducted business unit quality training programs. Manager responsible for developing the Quality section of the Turner's (Corporate) Superintendent training for their web based "Turner University" (Element 15: Training of the FTA Quality Control Guidelines). Worked as a member of the committee to establish a new corporate quality program.

Lucille Packard Children's Hospital Palo Alto, CA 2009: Developed a Quality Control program for managing the installation of the building exterior envelope (Element 7: Process Control of the FTA Quality Control Guidelines).

Santa Clara Valley Specialty Center San Jose, CA 2004-2006: Senior Project Manager overseeing the implementation of a NAVFAC/UAEC based Quality Control Program for the Santa Clara County Valley Specialty Center Medical Office Building (Element 7: Process Control of the FTA Quality Control Guidelines).

The Santa Clara Valley Specialty Center offers 243,000 sf and 190 exam rooms and facilities serving as an outpatient specialty clinic for ophthalmology, orthopedics, endocrinology, otolaryngology, surgical specialties, oncology/nuclear medicine, pharmacy, laboratory and imaging services. This is an OSHPD project. \$150 million.

Applied Materials Sunnyvale, CA 1995-1996: Developed and managed a construction clean room, quality construction protocol and final certification for a H6 Class 10 clean room.

This project provided 435,000 sf of renovations including: seismic retrofit, new mechanical central plant, manufacturing clean rooms, tool fit-up, new offices, cafeteria and site upgrades for H-6 occupancy areas. \$80 million.

Midpeninsula Regional Open Space District Offices Los Altos, CA 1994: Construction and Quality Manager providing quality inspection services for the renovation of the District's 9,000 sf. headquarters.



Windward Construction Company Sunnyvale, CA

1979-1995: Managed and supervised a privately held construction company. Duties included development and implementation of the Corporate Quality Management procedures.

RELEVANT PROJECT EXPERIENCE WHICH INCLUDED IMPLEMENTATION OF QUALITY CONTROL REQUIREMENTS

Cypress Semiconductor San Jose, CA

Cypress Semiconductor corporate headquarters consists of a three-story steel frame building with Glass Fiber Reinforced Concrete. The build out comprises of offices, executive suite and boardroom, cafeteria, and an 11,000 sf auditorium that accommodates 1,600 persons. The 5,000 sf cafeteria features a full kitchen that serves up to 1,500 meals per day in addition to providing catering services for the entire campus. Additional building amenities include a hair salon, massage therapy center, and a fitness center that encompasses an aerobic area, free weights area, and shower facilities. \$62 million.

Guidant Corporation Menlo Park, CA

A medical device manufacturing facility that includes cGMP clean manufacturing, process and gas facilities, administrative offices, shipping, receiving and a cafeteria. 107,000 sf. \$5 million.

Novellus Systems Inc. San Jose, CA

A semiconductor applications lab and engineering facility, including a robotic wafer delivery system, central plant, co-generation, process gas delivery and waste abatement systems. 82,000 sf. \$65 million.

Mineta San Jose International Airport San Jose, CA

Temporary facilities and installation of 11 CTX9000 baggage screening machines at Terminals A and C for Boeing Corporation, involving SJIA airport operations, eleven national airlines and airport security to satisfy the federally mandated baggage screening program for the United States Government Transportation Security Agency (TSA). \$25 million.

ALZA Corporation Clean Zone Improvement Vacaville, CA

cGMP - Upgrades to an operating drug manufacturing facility to comply with European pharmaceutical manufacturing standards. \$15 million.

Tab 2 Page **9** of **17** 8/27/12



Lucille Packard Children's Hospital Palo Alto, CA Lucille Packard Children's Hospital renovation included exterior façade renovation and an addition of 53 beds to surgery, oncology, and pediatric intensive care units. 80.000 sf. \$90 million.

Stanford Graduate School of Business Stanford, CA A 360,000 sf new business school campus comprised of eight buildings around three quadrangles. The campus includes a 600-seat lecture hall, dining facilities, faculty and staff offices, a parking structure for 900 vehicles, and dedicated space for career management and executive education programs. Also included are collaborative hands-on learning and virtual communication classrooms, linking students from Stanford to other schools around the world. \$300 million.

Mills Peninsula Hospital Burlingame,CA

Mills Peninsula Hospital and Office Building Replacement was a 5-story above and one-story below grade general acute hospital project. Renovations included an addition of 241 beds, base isolation seismic safety, technology-ready facilities with medical/surgical patient care rooms equipped to accommodate higher acuity telemetry monitoring, emergency department, and a Helipad. \$618 million.

Midpeninsula Regional Open Space District Offices Los Altos, CA Program Management for regional Ranger Facilities. Defined the facilities requirements and assisted in architect selection for two new ranger field offices and maintenance facilities. \$30,000.

CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

US Navy/Army Corps of Engineers Quality/NAVFAC Certified

OSHA 30 Hour Safety Program

ASHE Health Care Certified

LEAN/Last Planner Instructor



QUALIFICATIONS

KURT RICCI

Quality Alternate

EDUCATION AND BACKGROUND

As the Contractor's Alternate Quality Manager when the W/O JV Quality Manager is not on site, Mr. Ricci will have the primary responsibility of managing the Contractors Quality Management System. His duties include ensuring Trade Subcontractor compliance via implementation of specified process controls and acting as the day to day interface between project production and quality management to assure the owner that the work conforms to the project requirements. He is responsible for documenting quality compliance and providing senior management with periodic quality reports.

Mr. Ricci graduated with a BS in Civil Engineering from the United States Military Academy, West Point, New York in 1988. Mr. Ricci also earned a Masters of Science degree in Civil Engineering from the University of California at Berkeley in 1994. His 23 years of construction management and quality management experience includes implementing project-specific quality management programs for a variety of construction projects.

WO-CQC0001.7 21 of 93



RELEVANT QUALITY EXPERIENCE

Transbay Transit Center San Francisco, CA

2009-Present: Project Director responsible for all aspects of construction of the Transbay Transit Center, including client relations, costs, schedule, quality, and project staff management.

The Transbay Transit Center Project in downtown San Francisco will transform transportation in California and stimulate the economy by building the "Grand Central of the West." As the largest approved public transportation project in the country, the project will replace the current Transbay Terminal at First and Mission streets in San Francisco with a modern regional transit hub connecting eight counties in the Bay Area and the State of California through nine transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, MUNI, SamTrans, WestCAT and future High Speed Rail from San Francisco to Los Angeles. Additionally, it will extend Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center and create a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center.

Millennium Tower (301 Mission) San Francisco, CA 2005-2009: Project Director responsible for all aspects of construction and management of the Millennium Tower at 301 Mission Street in San Francisco. Mr. Ricci's responsibilities involved client relations, project staff management, subcontractor management, cost control, schedule control, and quality control.

This condominium/mixed-use project measures 60 stories, making it the largest concrete tower west of the Mississippi River. The project also included the construction of a 12-story mid-rise amenity/condominium building connected by a three-level atrium/podium constructed over a five-level below-grade parking garage and one below-grade back-of-house level. This project earned a multitude of awards including the 2009 Structural Engineering Project of the Year from Region Nine of the American Society of Civil Engineers, the 2008 Outstanding Structural Engineering Project from the San Francisco Section of the American Society of Civil Engineers, the 2009 Top Honor in the April 2009 edition of Metal Architecture Magazine, the 2008 Construction Category Award from the Northern California chapter of the American Concrete Institute, and the 2008 Concrete Industry Board Award of Merit in the Out of Area category from the Roger H. Corbetta Awards Program.



Mission Place / The Beacon San Francisco, CA

2001-2004: Project Manager responsible for all aspects of the Design-Build Mechanical, Electrical, Plumbing, and Fire Protection systems. Responsible for all aspects of the Elevators and Pool/Spa/Sauna systems. Responsible for the commissioning of the systems described above, as well as coordinating and implementing multi-phase Temporary Certificate of Occupancy inspections and signoffs. Coordination entities include various City of San Francisco inspection agencies, including the Department of Building Inspection, Department of Public Works, and the San Francisco Fire Department.

Located across from AT&T Park at the busy intersection of 3rd and Mission Streets next to the Caltrain terminus, this mixed-used residential tower complex bisected by a pedestrian plaza consists of eight poured-in-place structural concrete buildings of varying heights totaling 750,000 square feet with 595 residential units, a spa, and a health facility and 125,000 square feet of retail/commercial space with three restaurants, a Safeway grocery store, and a Borders Bookstore, replaced since by a bowling alley. The parking garage holds 993 spaces in 440,000 square feet. The façade's exterior skin system consists of three-quarter plaster and lath over 40-pound building paper and DensGlas Gold exterior sheathing on an engineered exterior stud framing system.

Mission Towers (Phases 1 and 2) Santa Clara, CA 2000-2001: Project Manager responsible for all aspects of construction, including Design-Build Mechanical, Electrical, Plumbing, and Fire Protection (MEPS) systems; plus commissioning of the MEPS systems. Also managed the self-performed concrete formwork and placement. Responsibilities also included managing all subcontractors, costs, and quality.

1998-2000: Project Engineer responsible for all document control, Requests for Information, Submittal review and processing, structural concrete layout, on-site precast fabrication of architecturally-finished concrete panels, and labor production tracking and control.

Located just off of Highway 101, at the Great America Parkway exit, the Mission Towers project is a two-phase project, consisting of two 12-story structural steel framed office buildings totaling approximately 600,000 square feet and a 4-story concrete parking structure, totaling approximately 600,000 square feet. The office buildings have a curtain wall glass exterior and the parking structure has a precast, architecturally-finished concrete system, cast on-site.



Mr. Ricci worked for Treadwell & Rollo as a geotechnical engineer prior to working for Webcor Builders. Below is Mr. Ricci's experience during that time:

Mr. Ricci provided geotechnical investigation, design, consultation, and construction observation services for a variety of projects including commercial and residential buildings, and investigations for seismic upgrades and the repair of earthquake-damaged buildings. He was involved in geotechnical studies for projects including high-technology manufacturing facilities, high-rise office buildings, commercial and residential developments on a variety of soil conditions. Mr. Ricci also provided geotechnical input for Environmental Impact Report preparation, performed Phase I Environmental Site Assessments, and managed Phase II Site Characterization investigations.

Representative projects in which Mr. Ricci was involved include:

Pacific Bell Park, San Francisco: Managed the geotechnical investigation for the new San Francisco Giants stadium, Pacific Bell Park to be constructed on land reclaimed in the late 1800s and early 1900s. Directly involved in the development of conclusions and recommendations regarding: soil and groundwater conditions at the site, site seismicity and seismic hazards (including liquefaction), criteria for pile foundation design, soil densification, design criteria for below-grade walls and temporary shoring, site grading and excavation, and dewatering. Also assisted in developing seismic response spectra for three levels of earthquake shaking: 50 percent in 50 years, 10 percent in 50 years, and 10 percent in 100 years, and provided geotechnical input for the Environmental Impact Report. Mr. Ricci was also responsible for responding to the Structural Advisory Committee of the San Francisco Department of Building Inspection review comments and issues. Mr. Ricci managed the geotechnical aspects of the foundation installation (approximately 2,100 concrete piles), stone column installation, and deep compaction grouting.

Sun Microsystems World Wide Operations Manufacturing Facility - Phase I, Newark: Managed the geotechnical investigation for Phase I of Sun Microsystems World Wide Operations Manufacturing Facility. The scope of work consisted of conducting the field investigation, performing laboratory tests, and developing recommendations to facilitate construction of two manufacturing buildings and an office building at a site underlain by up to 10 feet of potentially liquefiable soil. Recommendations included precast, pre-stressed, concrete piles, soil-cement columns, and compaction grouting. Mr. Ricci managed the geotechnical aspects of the construction observation and testing during the installation of the Phase I buildings' foundation systems and the earthwork associated with Phase I site improvements.

Beale Street Tower, San Francisco: Managed the geotechnical investigation to provide foundation, shoring, and excavation recommendations for a 13- to 25-story residential tower complex over a two-story underground parking garage. The proposed project consists of excavating up to 28 feet in sandstone

Tab 2 Page **14** of **17** W/O CQC Plan TTC Rev 7 8/27/12



and shale of the Franciscan Complex adjacent to the western anchorage of the San Francisco-Oakland Bay Bridge. Recommendations included soldier pile and lagging shoring or the use of rock bolts with gunite or wire mesh.

Oakmead West, Sunnyvale: Managed the geotechnical investigation to provide geotechnical design parameters for the development of a seven building office park covering approximately 20 acres. Mr. Ricci managed the geotechnical aspects of the construction observation and testing during the installation of the office buildings' foundation systems and associated site improvements.

Pillar Point Harbor, El Granada: Managed the geotechnical investigation for the proposed deepening of the Pillar Point Harbor along the San Mateo County coastline. The scope of work included evaluating the subsurface conditions within a proposed 200-foot-wide by 1400-foot-long channel and regarding dredgeability, liquefaction potential, seismic hazards, and stability with regard to final slopes.

San Jose Gateway III: Managed the geotechnical investigation for a six-story, pile-supported office building and associated three-story parking garage adjacent to the San Jose Airport. Managed the geotechnical aspects of the construction observation and testing which included consultation and evaluation during indicator pile driving, driving 105, 12-inch-square, precast, prestressed piles, installation of shallow foundation systems for six-story, pile-supported office building and a 3-level parking garage, and various site improvements.

South Beach Parking Structure and Maritime Building, San Francisco: Managed the Environmental Site Assessment for the San Francisco Redevelopment Agency, in accordance with Article 20 of the San Francisco Public Works Code, for a proposed parking structure and maritime building adjacent to the proposed Pacific Bell Park. Also managed the environmental Phase II investigation to characterize the soil to be excavated during construction of a proposed, partially below-grade, parking structure.

Seventh and Mission, San Francisco: Managed the Phase I Environmental Site Characterization investigation for the San Francisco Redevelopment Agency for a proposed multi-story office building with underground parking at an approximately 175,000 square foot site. Tasks included assessing the quality of the soil and groundwater underlying the site and presenting conclusions regarding various disposal alternatives.

USF Jesuit Housing, San Francisco: Managed the geotechnical investigation to provide foundation recommendations for a three-story housing complex over a one-story parking garage located on a hillside at the USF Lone Mountain Campus. Mr. Ricci managed and conducted all aspects of the field investigation, design analysis, development of the conclusions and recommendations regarding: soil and groundwater conditions at the site; site seismicity and seismic hazards, appropriate foundation type(s); design criteria for the recommended foundation type(s); Uniform Building Code site characteristic factor "S"; design criteria for below-grade walls and temporary shoring; site grading and excavation, including criteria for fill quality and compaction.

Tab 2 Page **15** of **17** W/O CQC Plan TTC Rev 7 8/27/12



Holiday Inn Express, Belmont: Managed the geotechnical investigation to provide design conclusions and recommendations for a three-story hotel over one story of partially below-grade parking. Plans include cuts of up to ten feet into the native soil and bedrock. Mr. Ricci managed and conducted all aspects of the field investigation, design analysis, development of the conclusions and recommendations regarding: soil and groundwater conditions at the site; site seismicity and seismic hazards, appropriate foundation type(s); design criteria for the recommended foundation type(s); Uniform Building Code site characteristic factor "S"; design criteria for below-grade walls, temporary slopes, and temporary shoring; site grading and excavation, including criteria for fill quality and compaction.

Holy Family Day Home, San Francisco: Managed the geotechnical investigation for construction of the new home for the oldest day care facility in San Francisco.

The Beach Chalet Brewing Company, San Francisco: Managed the geotechnical investigation to provide conclusions and recommendations for the construction of a restaurant and brewing facility on the second floor of the historic Beach Chalet building near Ocean Beach. Mr. Ricci managed and conducted all aspects of the field investigation, design analysis, development of the conclusions and recommendations regarding: soil and groundwater conditions at the site; allowable bearing capacity for the existing soil and foundation conditions; design criteria and estimated settlement for new foundations to support the restaurant and brewing facility; and analyzing settlement behavior between new and existing foundations.

St. Paul's Episcopal Church and School, Oakland: Managed the geotechnical investigation to provide foundation recommendations and groundwater mitigation solutions for a seismic upgrade for an unreinforced masonry church and parish building, and foundation recommendations for a new classroom building and gymnasium.

Pebble Beach Golf Links, Pebble Beach: Assisted in the geotechnical investigation to provide solutions to wave and drainage-induced erosion, and landsliding along the coastal bluffs of the renowned Pebble Beach Golf Links. Mr. Ricci managed the field investigation which included drilling and soil sampling, piezometer installation, permeability tests, slope stability analyses, and conducting a review of and summarizing all previous geotechnical work performed at the golf course.

The Gap Corporate Campus - Phase I, San Bruno: Managed the geotechnical services during construction of 175,000 gross square feet of office buildings and associated above- and below-grade parking. Construction aspects consisted of 75 concrete, cast-in-place drilled piers, shallow foundation system installation, soil nail walls retaining cuts up to 25 feet in the native soil, slope construction, cut/fill operations, and utility trench backfill.

1701 Divisadero Street, San Francisco: Field Engineer during the construction of a five-story medical building with a four-story, below grade, parking garage on a site bounded by two city streets and two multi-story structures. Construction aspects consisted of soldier beam and tieback installation, dewatering program, earthwork, and tiedown installation for a 40 foot deep excavation in sand.

Tab 2 Page **16** of **17** W/O CQC Plan TTC Rev 7 8/27/12



CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

US Navy/Army Corps of Engineers Quality/NAVFAC Certified Licensed Civil Engineer, State of California Red Cross First Aid and CPR Trained



3. QUALITY CONTROL MANAGER APPOINTMENT LETTER

To:

Bob Garcia

Quality Control Manager

From: Jes Pederson

Executive Vice President Webcor/Obayashi Joint Venture

Date: January 4, 2011

Subject: Appointment of Quality Control Manager for Transbay Project

Please be advised that you are hereby appointed as Quality Control Manager for the Transbay Transit Center Project. Your responsibilities include managing and implementing the Webcor/Obayashi Joint Venture Project Quality Control Plan.

You are assigned the following responsibilities:

- Implementing provisions of the Webcor/Obayashi JV Quality Control Plan as it pertains to the contract Documents.
- Assuring that the Quality Control Plan is established and implemented by persons doing work that impacts quality.
- Assuring that the Quality Control Plan is maintained.
- Acting as Webcor/Obayashi JV liaison with parties outside of the company on matters relating to quality.
- Reporting to Senior Management on the performance of the Quality Control Plan, including needed improvements.
- Review of the quality control documents.
- Review of quality control records.
- Review of quality related contract submittals.
- Review of project inspection and quality control activities.
- Review of subcontractors quality control programs.
- Reporting to the TJPA representative on matters pertaining to quality.
- Reviewing and distributing subcontract quality control reports.

I grant you authority for carrying out the above responsibilities including:

- Stopping Work when continuing work my adversely affect quality or cover up a defect.
- To direct the removal an replacement of an nonconforming work or material by any subcontractor or supplier.

Executive Vice President signature and date:

Tab 3 Page 1 of 1

W/O CQC Plan TTC Rev 1

WO-CQC0001.7

29 of 93



ALTERNATE QUALITY CONTROL MANAGER APPOINTMENT LETTER

To:

Kurt Ricci

Alternate Quality Control Manger

From: Jes Peterson

Executive President Webcor/Obayashi Joint Venture

Date: March 24, 2012

Subject: Appointment of Alternate Quality Control Manager for Transbay Project

Please be advised that you are hereby appointed as Alternate Quality Control Manager for the Transbay Transit Center Project. Your responsibilities include managing and implementing the Webcor/Obayashi Joint Venture Project Quality Control Plan.

You are assigned the following responsibilities:

- Implementing provisions of the Webcor/Obayashi JV Quality Control Plan as it pertains to the contract Documents.
- Assuring that the Quality Control Plan is established and implemented by persons doing work that impacts quality.
- Assuring that the Quality Control Plan is maintained.
- Acting as Webcor/Obayashi JV liaison with parties outside of the company on matters relating to quality.
- Reporting to Senior Management on the performance of the Quality Control Plan, including needed improvements.
- Review of the quality control documents.
- Review of quality control records.
- Review of quality related contract submittals.
- Review of project inspection and quality control activities.
- Review of subcontractors quality control programs.
- Reporting to the TJPA representative on matters pertaining to quality.
- Reviewing and distributing subcontract quality control reports.

I grant you authority for carrying out the above responsibilities including:

- Stopping Work when continuing work my adversely affect quality or cover up a defect.
- To direct the removal and replacement of nonconforming work or material by any subcontractor or supplier.

Jes Peterson

Executive President Webcor/Obayashi Jointy Venture

Signature and date:

W00000 0111400	9W01./
4. SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL	



4. SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL

SUBMITTAL MANAGEMENT

The Submittal process is designed to assure that all material, assemblies, equipment and shop drawings meet the Transbay Transit Center project requirements and are approved by the TJPA prior to procurement and installation. The Submittal process is the means by which the Trade Subcontractors control product purchasing. This submittal schedule will be developed incrementally and additional submittals will be added as trade packages are awarded and subcontractors are brought on board. Trade subcontractors will submit their submittal schedules for approval, as required in the Division 00, 01 and technical specifications, prior to the start of work.

DOCUMENT CONTROL

Webcor/Obayashi's Document Control process is the means by which information specific in the Contract Documents to be in Webcor/Obayashi's and the Trade Subcontractors control are logged, filed, and updated to assure that all relevant information meets the project requirements.

SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL PROCEDURES

The Webcor/Obayashi JV Document Control and Submittal management procedures are part of Webcor/Obayashi's Transbay Transit Center Policy and Procedures Guide. The relevant sections of that guide addressing submittal management and document control are listed below and are included in this section of the Webcor/Obayashi JV CQC Manual.

- 1. Submittals
- 2. Document control
- 3. File naming conventions
- 4. Filing archive
- 5. Transmittals
- 6. Document distribution matrix
- 7. Design documents

- 8. Master project document log
- 9. Updating drawings and specifications
- 10. Document set manager
- 11. CQC file structure
- 12. Quality Program Records



Submittals

November 18, 2011

Purpose

To obtain approval from the Architect/Engineer/Consultant for all materials, assemblies, equipment and shop drawing submittals required by the contract documents.

Policy

To install materials, assemblies and equipment only after approval is obtained from the appropriate reviewing Architect/Engineer/Consultant responsible for the particular scope of work.

Procedure

- Webcor/Obayashi and TJPA process submittals using two different types of project management software. Webcor/Obayashi uses CMiC and TJPA uses ConstructWare.
- In CMiC submittal packages contain submittals and all of the history of the submittal is tracked at the submittal level. The submittal package is simply the nest of the submittals that are attached to it.
- Submittals are transmitted to TJPA from Webcor/Obayashi via CMiC and ConstructWare.
 - o The naming format of the PDF submittal is crucial for the transmission to be successful.
- Submittal Actions Status:

ACTION	STATUS
Received	Open
Sent	Submitted
Returned	No Exceptions Taken, Make Corrections Noted, Revise and Resubmit, or Rejected
Forwarded	Same as Returned Status

Receive Submittal from Subcontractor – 0-5 days

Was it received on time? If not, have the department head notify the subcontractor that it was late. Is the submittal complete? If not, return the submittal to the subcontractor, transmittal shall include notification that the submittal is incomplete, give a date that the re-submittal is required, and notify them of their potential risk in missing the submittal date.

Once reviewed using the submittal process checklist and deemed complete, stamp, (All pages of shop drawings; front page only for product data), distribute to PM, QC and Supt. to review for compliance, and transmit to ownership.

Authored by: J.Filipas

Original Document

Page 1 of 2



Submittals

November 18, 2011

Design Team Review – 12 days

Design team will review the submittal. Each layer of review (Architect and Consultants) will stamp **ALL** pages and return to Webcor/Obayashi's document control manger.

Returned Submittal - 5days

Reviewed by Document Manager - Notify Author

Document Control will receive e-mail notification that the submittal has been reviewed in ConstructWare. Document Control will forward the e-mail notification along will all attachments to Author.

PM Triage – Notification Sent to Subcontractors

Revise & Re-Submit or Rejected

Return R&R or Rejected submittal to author subcontractor. PM will include in the transmittal a due date for re-submittal (5 days). Director will make a case-by-case determination on whether to send a preliminary submittal to other subcontractors for coordination.

No Exceptions Taken & Make Corrections Noted

Email author subcontractor and all affected trade subcontractors the approved submittal. PM will include transmittal with the action required.

Is there a Cost / Schedule Impact or Scope Change?

Subcontractors have 5 days from the returned date to respond with a cost or schedule impact.

Written Notification to Owner, draft RFI to Capture Cost

Shop drawings, product data, and samples "are not contract documents" per our contract language. Therefore, any change in scope due to a submittal must be captured via RFI. Director should also send written notification to ownership of any scope change incurred from a returned Submittal.

Storing Approved Submittals

Author of submittal will file all documents and correspondence within the storage folder and post the documents electronically.

• Put approved electronic copy of submittal in the designated folder.

Authored by: J.Filipas

Original Document

Page 2 of 2

SUBMITTAL PROCESS CHECKLIST

Submittal Packa	kage No.:	Date Received:
Submittal Name	me:	
☐ Review	w each submittal to:	
0	Verify that the submittal's contents match the accompa listed on the transmittal?	nying transmittal. Did we receive everything
0	Verify that the submittal's contents are complete per the packages need to be complete and should include <u>all</u> in submittals are to be rejected by W/O (if we don't the TJ).	formation necessary for review. Partial
0	Verify that the contents of the submittal are in conform appropriate contract documents.	•
0	Is the Submittal a Substitution?	
	■ No- Continue Processing Submittal	
	Yes -Reject submittals that are substitution requ substitutions.	uests- There is a separate process for
0	Verify that the trade subcontractor has checked and coomeasurements, with the requirements of the Work and	
0	Verify that the submittal complies with the requirement	ts of reference specifications –SFDPW, PG&E etc.
0	O Confirm that all professional certifications (stamp) w/lic	ense number and expiration date are provided
	and signed if required.	
0	Note any variations from the Contract requirements (if	there are create an issue in CMiC)
0	,	requests to verify dimensions, etc. If there are
	questions with the submittal:	
	 Can the questions be answered by W/O? 	
	 Does an RFI need to be submitted? 	
	 Does an issue need to be created in CMiC? 	
_	 Identify who is responsible for answering the quantum of the property of the prop	
0		
	action plan to coordinate submittal information with AL	•
O	If the submittal is complete, stamp the first page of each stamped.	h item. If it is shop drawings, all sheets must be
Гrade Scope Su	Superintendent:	Date:
Trade Scope PN	PM:	Date
CQC Manager:_	:	Date:
J		··················· \



Document Control

January 13, 2011

Purpose

The purpose of this outline is to provide guidelines for establishing the appropriate document control system for the management of the Transbay Transit Center project.

Policy

All Controlled documents will go through Document Control to be logged and tracked.

Procedures

What is a controlled document? A controlled document shall be defined for this project as any contract document or correspondence which includes i) contract requirements, or ii) scope definition or requirements, including distribution of all Contract Documents (e.g. addendum, bulletins, work orders, etc.) either to/from TJPA or Trade Subcontractor. Controlled documents received should be date stamped, logged, saved electronically (in some cases hard copies filed), distributed internally, monitoring response/process time (also referred to as work flow), distribute externally, and track the distribution list.

The following is a list of **controlled document** examples:

- Project Document Distribution Internal/External
 - o Design Documents
 - o Construction Document
 - o Sketches
 - o Reference Documents
- Submittals, including all LEED submittal requirements and substitutions.
- Design Review Questions (DRQs) Preconstruction
- Request for Information (RFIs) Construction
- Daily Reports
- Safety Memos Logged and tracked
- Schedules and schedule reports
- Permit Inspections
- Payment Applications
- Cash Flow Projections
- Monthly Progress Reports
- Permits
- Original Documents Custodianship of all original documents in a Master File until they can be boxed and transferred for long term storage.
- Formal Correspondence; including all formal incoming/outgoing correspondence
- Contract Notification Correspondence; delay notification, etc.

Authored by: J. Filipas

Original Document

Page 1 of 2



Document Control

January 13, 2011

- Contract Modifications
- Virtual Building/Models
- Meeting Minutes
- Transmittals
- Requests for Qualification (RFQ)
- Invitation for Bid (IFB)
- Subcontracts & Change Orders
- Long Form/Short Form Purchase Orders (PO)
- SBE/DBE
- Closeout documents
- Reimbursements

Uncontrolled Documents: The following are some examples of uncontrolled documents:

- Email correspondence
- Field Tags Collected and tracked by Cost Control
- Purchase Order Managed by Procurement/Cost Control



File Naming Conventions

November 4, 2010

Naming Convention

Below is the designator and associated description to be used on correspondence for the Transbay Project.-Project examples are:

- 1. RFI
- a. Utilities
 - i. RFI U -XXXX Description
- b. Transit Center Building
 - i. RFI T-XXXX Description
- c. Bus Ramps
 - i. RFI B-XXXX Description
- Ex. RFI U-0083 Joint Trench Conflict on Minna at St. 5+5
- 2. Submittal
 - a. Utilities
 - i. **U**uniformat-masterformat-subcontract##
 - 1. Ex. UA0000-000000A01 Description
 - b. Transit Center Building
 - i. Tuniformat-masterformat-subcontract##
 - 1. TA0000-000000A01 Description
 - c. Bus Ramps
 - i. Buniformat-masterformat-subcontract##
 - 1. BA0000-000000A01 Description
 - Ex. UG3020-333100A01 Sewer Piping Material
- 3. Email
 - a. Subject: Subject Description, same description to be used in transmittal, CMiC, etc
 - i. If communication pertains to a Trade Group Subject should include TG##.# and Name
 - Ex. Change Request T-003 Shoring Wall Changes [30100.03]
 - Ex. Transbay Transit Center TG05.4 Reimbursable Expense Approval [30100.01]
- 4. Dated Materials meetings, correspondence, reports, project documents, etc...
 - a. YYYY-MM-DD-Description
 - Ex. 2011-05-28 TG03 Reimbursable Expense Approval

Authored by: J.Filipas

Original Document

Page 1 of 2



File Naming Conventions

November 4, 2010

Contracts (CMiC) -

- b. Number = Contract #
- c. Title = Subcontractor Name EXECUTED Contract # Date
- Ex. 301000405
- Ex. Trinet Construction Inc. EXECUTED 301000405 2010-10-22
- 5. Change Orders (CMiC)
 - a. Number = Contract # ###
 - b. Title = Subcontractor Name EXECUTED SCO# Date
 - Ex. 301000405-001
 - Ex. Trinet Construction EXECUTED SCO#001 2010-10-05

Authored by: J.Filipas

Original Document

Page 2 of 2



January 7, 2011

Purpose

To define which documents need to be saved, where they need to be saved and who is responsible for ensuring they are properly saved.

Policy

All documents relative to the project should be saved electronically. In some cases, hard copies of these documents will also be saved.

Procedure

Do not save project related files on your individual computer.

- There is no back-up for these files. Computers can be stolen or crash in which case all information on that computer is lost.
- If someone else needs to access the most updated document, they cannot do so.
- If you have to work off-line, make a copy of your file from the server, do your update and then copy it back to the server once you have access.

Hardcopies -

A central document control location is established in the office. This location will be the storage for all documents that require hard copy. The following Hard Copy documents shall be filed:

- Prime Contract
- Prime Contract Change Orders (Contract Change Orders (CCO))
- Contract Amendments
- Executed Subcontracts
- Executed Subcontract Change Orders
- Permits

Electronic Copies

ALL Documents involved with the project will be stored electronically.

File Folder Structure

All electronic documents must be filed electronically

Authored by: J. Filipas

Original Document

Page 1 of 4



January 7, 2011

There are eight (8) folders in the first level of documents on the Transbay. No changes to this level of folders are allowed unless specifically discussed with a Project Director. No individual files should be stored at this level.

At the level Transbay\TJPA – OWNER\folder name there are currently 26 folders. Some have folder stored in these folders.

No changes can be made to the folder structure at this level unless discussed with a Senior Project Manager. No individual files should be stored at this level. Where applicable, folder names at this level will include, in parenthesis, the party responsible for maintenance of the file structure.

All folders will have names that accurately describe the comments. No folder will be named "miscellaneous documents" or any similar non-descriptive name.

Standard File Naming Conventions

ALL electronic document files and folders stored shall have titles consistent with the naming conventions defined in the File Naming Convention policy and procedure.

Responsible Party

The responsible party for each document is indicated in the matrix below. If the document is a paper copy, the responsible party shall hand the task of physically filing the document to the document control team. If a document is to be filed electronically, the responsible party shall see that it is filed correctly.

Authored by: J. Filipas

Original Document

Page 2 of 4



January 7, 2011

Document Matrix

DOCUMENT TYPE	HARD COPY?	SOFT COPY?	Responsible	Where Stored
OWNER	COPTE	COPTE	Party	
Prime Contract	Yes	Yes	Senior PA	Hard copy: Central File Location Soft copy: Contract
Prime Contract Change Orders	Yes	Yes	Senior PA	Hard copy: Central File Location Soft copy: Contract Amendments
Prime Contract Notices to Proceed	No	Yes	Senior PA	Hard copy: NA Soft copy: Contract NTPs
Owner Billing	No	Yes	Project Accountant	Hard Copy: NA Soft Copy: Progress Billings
SUBCONTRACT				
Subcontract	Yes*	Yes	PA	Hard Copy: Central File Location Soft Copy: Contract & SCCO's
Subcontract Change Order	Yes*	Yes	PA	Hard Copy: Central File Location – Subcontractor file Soft Copy: Contract & SCCO's
Subcontractor Insurance Cert	Yes*	Yes	Project Accountant	Hard Copy: Central File Location – Subcontractor File Soft Copy: Insurance Certificates
Subcontractor Progress Billing	No	Yes	Project Accountant	Hard Copy: NA Soft Copy: Progress Billings
Subcontractor Pricing	No**	Yes	APM	Hard Copy: NA Soft Copy: CMiC attached to issue code
Subcontractor direction to proceed	No**	Yes	APM	Hard Copy: NA Soft Copy: CMiC attached to issue code
Subcontractor Field Work Tag	No**	Yes	APM	Hard Copy: NA Soft Copy: CMiC attached to issue code
Subcontractor Formal Corres. (to)	No	Yes	PA	Hard Copy: Central File Location – Subcontractor File Soft Copy: trade number & name\Subcontractor\ 3. Correspondence
Subcontractor Formal Corres. (from)	No	Yes	PA	Hard Copy: Central File Location – Subcontractor File Soft Copy: Correspondence
Long Form P.O.	See SC	See SC	See SC	Long Form P.O.'s will be filed in the same manner as subcontracts.
Subcontract Pre-lien info.	Yes	Yes	Project Accountant	Hard Copy: Central File Location – Subcontractor File Soft Copy: Preliminary Notices

Authored by: J. Filipas

Page 3 of 4

Original Document

January 7, 2011

DOCUMENT TYPE	HARD COPY?	SOFT COPY?	Responsible Party	Where Stored
CONSTRUCTION			,	
RFI	No	Yes	Project Engineer	Hard Copy: Binder located at the foreman's plan table Soft Copy: CMiC
Submittals – Product Data	No	Yes	Project Engineer	Hard Copy: NA Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. CMiC
Submittals – shop drawings	No	Yes	Project Engineer	Hard Copy: Central File Location Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. Copy of approval to CMiC
Submittals – samples	Yes	Yes ++	Project Engineer	Hard Copy: Central Sample Location Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. Copy of approval to CMiC
Daily Reports W/O	No	Yes	Supt.	Hard Copy: NA Soft Copy: CMiC / Constructware
Daily Reports Subcontractors	No	Yes	Project Engineer	Hard Copy: Central File Location Soft Copy: Daily Reports\subcontractor
CQC Daily Reports	No	Yes	CQC Manager	Soft Copy: CMiC/Constructware
TPoC Meeting Minutes	No	Yes	CQC Manager	Soft Copy: CMiC
Non Conformance	No	Yes	CQC Manager	Soft Copy: CMiC
Progress Photos	No	Yes	Assistant Supt	Hard Copy: NA Soft Copy: Daily Progress Photos
Drawing Issuances	Yes	Yes	Document Control	Hard Copy: Central File Location Soft Copy: Documents
Meeting Minutes	No	Yes	Minutes Author	Hard Copy: NA Soft Copy: CMiC

Authored by: J. Filipas Page 4 of 4

Original Document



Transmittals

November 29, 2010

Purpose

To ensure contract documents leaving this office have a record.

Policy

Use and receipt of Transmittals is governed by the information herein.

All contract document exchange with Ownership, Design Team, Subcontractor community and Agencies with Jurisdiction/Authority on the project requires a CMiC transmittal. All transmittals are created in CMiC with the reference documents listed and uploaded as attachments in CMiC. All transmittals with incoming documents are date stamped, scanned and uploaded with the documents to the pertinent folder and CMiC.

Below is a listing of all contract documents that require a transmittal to capture the exchange/submission:

- Billing
- Submittals
- Design Review reports
- Schedules & Reports
- Cost Estimates
- Drawings
- Close-out documents
- Attic Stock

Procedure

Transmittal tracking numbers are auto populated in CMiC.

Subject (RE): The subject should be the same description used on other documents (ex. PCI's, Letters, email, etc.) Subject should be descriptive and should include appropriate sub-job, TG Package # and description.

Remarks: Include in the remarks form the first sentence should read

RE: Transbay Transit Center [Preconstruction/TCB/Utilities/Bus Ramps select one] – 30100.[##}

Authored by: J.Filipas

Original Document

Page 1 of 2



Transmittals

November 29, 2010

CMiC

Generating a Transmittal in CMiC requires completion of the following input:

- o From, To and CC individuals.
- o Re: is the same as subject
- o Via
- Due date(if applicable)
- Actions as appropriate
- o Remarks (Do not list transmittal items in this section)
- o Individual Transmittal Item listing including quantity, date, reference, description, comment and status stamp and initial all incoming document cover pages.

Linking Documents to CMiC

All documents being transmitted should be uploaded to CMiC under the appropriate folder under "documents".

If there is not a specific folder the type of document being transmitted, include it in "Webcor Other Attachments".

Reference Naming Convention P&P for naming of linked documents.

Sending Documents to Ownership

All documents will be sent via ConstructWare by the Document Control team.

Authored by: J.Filipas

Original Document

Page 2 of 2

4.2 Distribution Matrices

December 1, 2011

Purpose

To establish guidelines for who receives what documents and in what form.

Policy

All documents received by Document Control will be distributed according to the matrices.

Procedure

Distribution Matrices have been established for:

- 1. Internal & Drawing Distribution
- 2. External Distribution

Issues Log

Date	Revision
2/14/11	0
4/15/11	1
8/31/11	2
12/1/11	3
6/20/12	4
7/16/12	5

Authored by: J. Filipas

Page 1 of 1

Original Document

Key		Trad	e Spe	cific (Corres	pond	ence
H = Half Size F = Full Size empty = Electronic	Trar	Utility Relocation - 30100.03	Bus Ramps - 30100.05				
		TG03	TG05	Utility	Bus Ra		
				Drav	vings		
Group	Name		S	pecifi	catio	าร	
	Hidetake Taniguchi						Н
	Richard Gangitano						
	Todd Mercer						
	Kurt Ricci	Н		Н			
CONTROLS	Ted Williams						
DOCUMENT CTRL	Avaline Feliciano	F	F	F	F	F	F
QUALITY CTRL	Robert Garcia						
QUALITY CIKE	Lynn Kowallis						
SCHEDULE	David Hungerford						
	Kirk Nielsen	Н					
9	Joanne Filipas						
BLſ	Mike Poole	Н					
TRANSIT CENTER BLDG 30100.01	Pat Griffin						
IT CENTE! 30100.01	Jim Tomaszewski						
i∏ (Mike Spillane						
ANS	Manny Saldana						
Ŧ.	David Fields						
	RJ Kjome						
UTILITY RELOCATION 30100.03	Jackson Tukuafu						
U. RELC	Colin Azevedo				Н	Н	
PS	Masashi Kojima						Н
0.0 90.0							
PRECONSTRUCTIO BUS RAMPS N 30100.05							
<u> </u>	Jeff Heath			Н			
P G	Brian Morton			Н			
TR(Jodi Soboll						
CONSTRUC N 30100P	Tomoya Ima						
S S	Nhi Tran						
P	Sihaya Roselle						

Printed from DSM

Date	Revision #
12/1/2011	1
12/30/2011	2
3/2/2012	3
3/28/2012	4
6/19/2012	5

TRANSBAY TRANSIT CENTER DISTRIBUTION MATRIX WEBCOR/OBAYASHI External

		General Correspondence Trade Specific Correspondence							Purchasing		Engineering									
P = Primary CC = Copy									structability			Transit Center Bldg	30100.01		0100.03	15	orespondence			
Group	Name	Contract Issues	Amendments/CO	Progress Billings	Schedule Updates	NOPD/NOPC	Quality	Safety	Cost Estimating/Constructability	Field Orders/PCO	TG03 - BSE	TG05 - Logistics	TG08 - Glazing	TG19 - Mission Wall	Utility Relocation - 30100.03	Bus Ramps - 30100.05	Bid Packages and Coorespondence	QBDs	QBDs RFI's and Submittals	
	Steve Rule	Р	СС	сс	Р	Р	сс	СС	СС	СС	СС	Р	Р	Р	Р	Р	Р			
	Jack Adams				СС	СС	сс	P			СС	СС	СС	СС	СС	СС				
	Saeid Elmi						Р												СС	
	Gwynne Powell	СС	P	Р	сс	сс				Р										
Turner	Sokari Frank		СС	СС						СС										
Turner	Gary Krutsch								СС		СС	СС	СС	СС	СС	СС	СС	Р	Р	
	Jeff Thiel														СС			СС	СС	
	Stacy Wilson										СС							СС	сс	
	Steve Cunningham				сс	СС		СС			СС				СС					
	Turner Doccontrol	СС	СС	СС	сс	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	
	Jim Coughlin		СС		сс	СС			Р	СС										
	Alfred Lau	сс	СС				СС	СС	СС	СС	СС	СС	СС	СС	СС	СС				
	Mark O'Dell								СС	СС			СС							
	Guy Hollins														СС					
PMPC	Phil Sandri													СС		СС				
I FIVIT C	Prasad Nimmigadda								СС											
	Whitney Campbell						СС													
	Roger Rothenburger	сс	СС						СС	СС	СС									
	Doug Jacobson										СС									
	PMPC DocControl	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	
	Bob Beck					СС														
TJPA	Brian Dykes					СС					Р									
.,,	Eddie Phillips	сс	СС	СС	сс	СС	СС	сс	СС	СС	СС	СС	СС	СС	СС	СС	СС			
	*TJPA DocControl	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	

^{*}All correspondence for TJPA will be sent to Doc. Control and will direct correspondence for action, information, etc.

			Gen	eral C	orres	onde	nce		1	rade	Speci	fic Co	rresp	onde	nce
P = Primary cc = copy		Contract Issues	Amendments/CO	Progress Billings	Schedule	Quality	Safety	Pre Construction	TG03-BSE	TG05-Logistics	TG08-Glazing	TG019-301 Mission Wall	TG06-Below Grade	Utility Relocation - 30100.03	Bus Ramps - 30100.05
		Field Orders													
			Δ	l Corr	espoi	ndonc	•	Submittals Inspections							
			A	COII	espoi	iuenc					- "	RFI'			
Group	Name											PCO	's		
Ę	Jes Pedersen	СС													
MANAGEMENT	Hidetake Taniguchi	СС	СС	СС	СС	СС	СС	СС	СС						СС
4 GE	Richard Gangitano	Р	Р		СС	СС	СС		сс	сс	СС	СС	СС	СС	СС
AN,	Todd Mercer	СС	СС	Р		СС	СС	P				СС			СС
Σ	Kurt Ricci	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС
PROJECT ACCT	Jasmin Lautt		СС	СС											
	Anne Merics			СС											
ADMIN	Sarah Boyd			СС											
	Julie O'Brien		СС												
Controls/SBE	Ted Williams	СС	СС	СС					СС	СС	СС	CC	CC	СС	СС
	Avaline Feliciano	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	СС	CC	СС	СС
SAFETY	Ray Ramierez						Р								
QUALITY CTRL	Bob Garcia					Р		CC	СС	СС	CC	CC	CC	СС	СС
	Lynn Kowallis				_	CC		СС	СС	СС	СС	СС	СС	СС	CC
SCHEDULING	David Hungerford				Р			СС				Р			
	Chad Matthews				СС				СС						
Virtual Building	Frank Haase				СС			СС							
	Mike Brown				CC			СС	2						
01	Kirk Nielsen								Р						
00	Mike Poole								СС	СС		СС	СС	СС	CC
301	Joanne Filipas David Fields								СС						
T CENTER BLDG 30100.01									СС						
BL 8	RJ Kjome Pat Griffin								CC						
	Jim Tomaszewski								СС						
CE	Brian Perez								СС						
—	Dilail Felez								CC						

			Gen	eral C	orresp	oonde	nce		Trade Specific Correspondence						nce	
									Tı	ansit	Cent	er Blo	lg	03		
P = Primary cc = copy		Contract Issues	Amendments/CO	Progress Billings	Schedule	Quality	Safety	Pre Construction	TG03-BSE	TG05-Logistics	TG08-Glazing	TG019-301 Mission Wall	TG06-Below Grade	Utility Relocation - 30100.03	Bus Ramps - 30100.05	
												eld O				
												ubmit				
			Al	l Corr	espoi	ndenc	е				In	spect				
	••								RFI's							
Group	Name	PCO's														
TRANSI	Mike Spillane								СС							
Ŧ,	Jose Verduzco								СС							
	Manny Saldana								СС	СС				СС		
UTILITY RELOCATION 30100.03	Jackson Tukuafu									P		СС		Ρ		
UTILITY R	Colin Azevedo									сс				СС		
S S S S S S S S S S S S S S S S S S S	Masashi Kojima							СС					СС		Р	
BUS RAMPS 30100.05																
- R/-																
	Jeff Heath							СС			Р		Р		СС	
PRECONSTRUCTI ON 30100P	Jodi Soboll							СС					СС			
ECONSTRUGON 30100P	Brian Morton							СС		СС			СС		СС	
NO. 2	Tomoya Imai							СС					СС			
REC	Nhi Tran							СС					СС			
₫.	Sihaya Roselle							СС		СС			СС			



Design Documents

January 10, 2011

Purpose

To receive, review and distribute design documents sent to W/O from TJPA.

Policy

All design documents will go through document control and be distributed electronically to the entire team. Only selective members of the team will receive hard copies.

Procedure

- 1. Document Control Engineer (DCE) receives design documents from TJPA via Hard copy, compact disc, electronically or download from ConstructWare.
- 2. DCE reviews documents for completeness.
 - a. If documents received are incomplete, DCE responds immediately via e-mail indicating the documents are incomplete and W/O is not reviewing them.
- 3. DCE creates a new folder in the Owner-Documents folder for the received file.
- 4. DCF distributes link to electronic file
- 5. DCE determines drawing order requirements for Ford Graphics.
 - a. DCE to follow PO procedure for ordering drawings (see PO procedure).
- 6. DCE places order once the PO is approved by the Project Director.
- 7. DCE receives drawing order and verifies it is complete.
- 8. DCE distributes hard copy design documents to the appropriate personnel.

Authored by: J. Filipas

Original Document

Page 1 of 1



Master Project Document Log

January 18, 2011

Purpose

To track and document all drawings and specifications issued throughout the life of the project and where these documents live.

Policy

The master project document log will be update by Document Control as new drawings and specifications are issued.

Procedure

- 1. Review master drawing log against drawing log issued with new drawings.
- 2. Update master drawing log when new documents are received with date, revision number and location of where documents are saved.

NOTE – Master Drawing Log has not been established; PMPC to issue master log.

Authored by: J. Filipas

Original Document

Page 1 of 1



Updating Drawings & Specs

January 10, 2011

Purpose

To ensure there is an up to date record set of drawings and specifications.

Policy

All drawings and specifications will be updated and maintained by the project team and document control. Individual team members are responsible for keeping their personal drawings up to date.

Procedure

Specifications and Drawings will be kept both electronically and in hard copy. Document Set Manager will be the most up to date set of Record Drawings only.

Record Drawings:

- 1. Document Control Engineer (DCE) receives new drawings from TJPA
 - a. DCE follows Design Document procedure for distribution.
- 2. DCE batch plots DWG files in AutoCad to the DSM file.
 - a. Reviews batch plot PDF's against the PDF's provided by TJPA for changes.
- 3. DCE imports PDF's to DSM.
- 4. DCE closes clouds for RFI's that have been captured by the Architect.
- 5. DCE notifies the team that the new drawings are in DSM and comparisons can be done.
- 6. DCM will print full size hard copies of record set drawing as required. Subcontractors and Project Team should reference DSM for the most up to date Record Set.
- 7. DCE updates Construction Drawings to fold in new drawings.
- **All RFI's (sent and answered) will be posted to drawings by the author of the RFI. (See RFI procedure).

Specifications:

- 1. DCE receives revised specifications from TJPA
 - a. DCE follows Design Document procedure for distribution.
- 2. DCE takes hard copies received from TJPA and updates Record Set of specifications.
- 3. DCE Updates electronic version of current specs.



Document Set Manager

January 26, 2011

Document Set Manager (DSM) will be utilized on this project to manage our record set of drawings.

Policy

DSM will be used as Webcor/Obayashi's record set of drawings, including all RFI's, Trade Subcontractor As-builts and revisions to drawings. Specifications will not be maintained in DSM.



CQC File Structure

November 16, 2011

Purpose

The CQC File Structure is outlined below and will be utilized on this project to store, organize and manage Webcor/Obayashi's CQC Plan, Daily CQC Reports and DFOWs.

Policy

Webcor/Obayashi will organize and store CQC documents such as the CQC Plan, Daily CQC Reports and DFOWs on the F:\ drive in a shared folder. CQC Daily Reports will be uploaded into Constructware as the system of record.

Procedure

CQC documents on the F:\ drive may be found at the following location.

F:\Transbay\WEBCOR\Quality Control

CQC Plans

- CQC Plan Webcor-Obayashi JV:

Daily CQC Reports

- 1. Trinet
- 2. M2
- 3. Transworld
- 4. M2
- 5. BBII
- 6. Chaudry
- 7. Sandis
- 8. Webcor-Obayashi

DFOW

- BBII (TG03)
 - Preparatory Phase
 - o Initial Phase
 - o Follow-up Phase
- M2 (TG04.1, 04.2, 04.3, 04.4, 04.5, 04.6)

CQC Daily Reports in Constructware may be found at the following location.

Constructware CQC Daily Reports

140 - Transit Center Building

- File Director
 - o 10 Quality
 - 12 CQC Reports
 - BBII
 - W-O

Authored by: S. Roselle

Original Document

Page 1 of 1



Quality Program Records

August 24, 2012

Purpose

Procedures shall be established and maintained for quality records. These procedures shall identify which records shall be kept, responsibility for production and collection, and responsibility for indexing, filing, storage, maintenance, and disposition of quality records.

Policy

Quality records shall be maintained to show achievement of quality objectives and appropriate functioning of the Quality Management System. Supplier, contractor, and subcontractor quality records shall be included when pertinent. Quality records shall be legible and specify the work involved. They shall be kept in an environment to minimize deterioration and damage. Retention times and final disposition shall be established and recorded.

Procedure Following are examples of the types of quality records requiring control:

- Inspection reports
- Test data
- Qualification records
- Calibration records
- Non-conformances
- Corrective actions





5. Inspections and Testing

QUALITY INSPECTIONS

The Webcor/Obayashi JV Quality Control Manager or CQC Manager's alternate will verify that Trade Subcontractors are meeting the requirements outlined in the TJPA Quality Management System Manual, sections 8.5.1 Inspection and Test Planning and 8.5.2 Contractor Inspection Requirements, to provide documented evidence of inspections, lab reports and test results. When specified, the Trade Subcontractors will also perform inspections of all purchased items, perform source inspections, perform first article inspections and perform end process inspections and testing.

INDEPENDENT TESTING FIRM REPORTING REQUIREMENTS

When the technical specifications indicate the requirement for services of an independent firm, inspection reports will be submitted promptly by the independent firm in triplicate and distributed, one copy each, to the TJPA Representative, Webcor/Obayashi JV, and the code authority having jurisdiction over the Project and will indicate observations and results of tests and compliance or noncompliance with the requirements as defined in the technical specifications.

TJPA CODE AND AGENCY TESTING AND INSPECTIONS

Work shall be subject to inspection by representatives of the TJPA and other agencies having jurisdiction (Code and Agency Inspections) to assure compliance with all requirements of Section 00 07 00, General Conditions, Paragraph 8.02.

TJPA SPECIAL INSPECTION AND TESTING

Where specified, the TJPA Representative will appoint, employ, and pay for services of an independent firm to perform inspections, testing, and other services specified in individual specification sections and as required by the TJPA Representative, or the TJPA Representative will perform the inspection and testing services to verify that the Work conforms to the requirements of the Contract Documents and to the Quality Control specification, specifically to specification section 01 14 00 Rev 0 Quality Control paragraph 1.5A Tests, and will include the following procedures:

- Verify that testing procedures comply with the contract documents.
- Implement and document control verification and acceptance testing procedures.
- Check testing instruments calibration data against certified standards.
- Promptly submit copies of test reports to: TJPA, Webcor/Obayashi JV and the code authority having jurisdiction over the Project

Tab 5 Page **1** of **6** W/O CQC Plan TTC Rev 7 8/27/12



INSPECTION REQUEST PROCEDURE

The Trade Subcontractors CQC Manager will verify that all prerequisites as defined by the contract specifications are completed prior to Code, Agency or Special Inspections. Inspection Request will be submitted to the Webcor/Obayashi JV CQC Manager and the TJPA Construction Management Oversight Manager 48 hours and not more than 72 hours prior to the inspection date. Inspection Requests for Code, Agency and Special Inspections require an "Inspection Request Form" to be completed in Vela Systems by Webcor/Obayashi JV or the Trade Subcontractors CQC Manager. The Trade Subcontractor's CQC Manager will facilitate onsite inspections, sampling procedures, test reports, and provide notification to the Webcor/Obayashi JV CQC Manager and TJPA representative when inspections fail or test results fall below specified values.

TRADE SUBCONTRACTOR TESTING AND INSPECTION

TEST AND INSPECTION PROCEDURES BY TRADE SUBCONTRACTORS

When specified, the Trade Subcontractors shall include as part of their scope all tests to verify that the Work conforms to the Contract Documents and to the Quality Control specification section 01 14 00 Rev 0 paragraph 1.10A Tests. Contractor shall perform specified or required tests to verify that control measures are adequate to provide a product that conforms to Contract requirements. Upon request, Contractor shall furnish to the TJPA Representative duplicate samples of test specimens for possible testing by the TJPA. Testing includes operation and/or acceptance tests when specified. Procure the services of a certified testing laboratory. Perform the following activities and record and provide the following data.

- Verify that testing procedures comply with the contract documents.
- Verify that all inspection prerequisites are met prior to conducting inspections.
- Submit a testing and inspection matrix with the design submittals showing all required inspections and the entity responsible for performing the tests or inspections.
- Track inspection and test status.
- Verify that the facilities and testing equipment are available and comply with the testing standards.
- Trade Contractors and Suppliers shall have documented procedures to ensure test equipment is in calibration and keep updated lists of all equipment requiring calibration. Trade Contractor shall make calibration records available for review.
- Record results of tests taken, both passing and failing on the trade subcontractor's daily CQC report for the date taken. Specify paragraph reference, location where tests were taken.

Tab 5 Page **2** of **6** 8/27/12

W/O CQC Plan TTC Rev 7



- When the services of an independent firm are utilized, reports will be submitted
 promptly by the independent firm in triplicate and distributed, one copy each, for the
 TJPA Representative, Webcor/Obayashi JV, and the code authority having
 jurisdiction over the Project and will indicate observations and results of tests and
 compliance or noncompliance with the Contract.
- When specified, the Trade Subcontractors shall produce test and inspection plans in accordance with the Program Quality Management System requirements. All testing and measurements specified to be performed by the Trade Subcontractors shall be performed with equipment whose calibration meets national standards and to documented standards when no national standard exists.
- Maintain and submit a log indicating the status of the Trade Subcontractors inspections and tests.
- Verify that facilities and testing equipment are available and comply with testing standards.
- Check test instrument calibration data against certified standards.
- Verify that recording forms and the test identification control number system, including all of the test documentation requirements, have been prepared.
- Record results of all tests taken, both passing and failing, on the CQC report for the date taken. Specify paragraph reference, location where tests were taken, and the sequential control number identifying the test. If approved by the TJPA Representative, actual test reports may be submitted later with a reference to the test number and date taken. Provide directly to the TJPA Representative an information copy of tests performed by an offsite or commercial test facility. Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this Contract.

CONTROL VERIFICATION AND ACCEPTANCE TESTING PROCEDURES

When specified, The Trade Subcontractors CQC Managers will provide control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities approved by the TJPA Representative must be used.).

When specified, specific control verification and acceptance testing procedures will be provided by the Trade Subcontractors as part of the Trade Subcontractors CQC plans, and will be completed as the specification sections are defined and the Trade Subcontractors are added to the project



INSPECTION, MEASURING AND TEST EQUIPMENT (M&TE)

When required by the Technical Specifications:

- Inspection, measuring, and test equipment required to carry out inspection and testing shall be identified, controlled, calibrated, and maintained in order to demonstrate the conformance of work to the specified requirements. Provisions shall be made for recalibration of such equipment in a timely manner.
- Inspection, measuring, and test equipment used shall meet the standards of accuracy for the measurements which are required. The equipment shall be calibrated according to national standards where available, and to documented standards where no national standards exist. The equipment shall be recalibrated at regular intervals, and the recalibration properly documented. A record of the equipment calibration status shall be maintained.
- The equipment shall be properly maintained to ensure its fitness for use. When the equipment is in use, the user shall ensure that the environmental conditions are suitable for the use of the equipment. When inspection, measuring, or test equipment is found to be out of calibration, the validity of previous inspection and test results shall be assessed and documented.
- All calibrated gauges and calibrated testing equipment must be calibrated prior to its use on the project. Periodic calibrations must be performed in accordance with certifying agency requirements and industry practice. The equipment will be properly maintained to ensure its fitness for use. When in use, the user shall ensure that the environmental conditions are suitable for the use of the equipment. When inspection, measuring, or test equipment is found to be out of calibration, the validity of previous inspection and test results will be assessed and documented.
- Inspection, measuring, and test equipment used will meet the standards of accuracy for the measurements which are required. The equipment will be calibrated according to national standards where available, and to documented standards where no national standards exist. The equipment will be recalibrated at regular intervals, and the recalibration properly documented. A record of the equipment calibration will be maintained by the Contractor.

CONTROL OF MEASURING AND TEST EQUIPMENT

Inspection, measuring, and test equipment used shall be identified, controlled, calibrated. M&TE will be properly calibrated and currently certified.

Calibration records and procedures shall meet the following requirements.

- Measuring and test equipment will be positively identified as to its name, calibration lab, date of last calibration and calibration expiration.
- Measuring and test equipment shall be calibrated against standards that have a known, valid relationship to national standards prior to use, and periodically thereafter, if required, to provide for the accurate reporting of quality testing and



inspection results. In case no national standard exists, the basis for calibration will be identified and documented.

- The tolerances used in calibration shall be in accordance with the manufacturer's recommendation or as otherwise specified.
- An independent calibration laboratory shall perform all calibration.
- Environmental conditions for calibration shall be consistent with the location where inspection and testing is performed.

Calibration shall be performed in accordance with approved calibration procedures. These procedures shall specify the following:

- Details of equipment type
- Identification number
- Location (as required)
- Calibration method and frequency
- Acceptance criteria
- Action to be taken if results are unsatisfactory

RESOLUTION OF TESTS RESULTS FROM UN-CALIBRATED EQUIPMENT

Results from tests requiring calibrated equipment performed with equipment not currently in calibration shall be suspect. The test equipment used shall be tested and recalibrated. If the equipment is found to be within calibration limits, the test results shall be accepted. If the equipment is not found to be within calibration limits, the tests results must be verified by other means, or the material in question replaced.

TEST REPORTING

Inspection and test status are documented in the Trade Subcontractors Daily Quality Control reports.

COMPLETION INSPECTIONS

PUNCH-OUT INSPECTION

An inspection of the Work will be conducted by the Trade Subcontractors CQC Manager and verified by the Webcor/Obayashi JV CQC Manager, near the end of Trade Subcontractor's work. The punch list, entered into Vela Systems, will include items that do not conform to the approved Drawings and Specifications and the estimated date by which the deficiencies will be corrected. A second inspection by the Trade Subcontractor CQC Manager will ascertain that all deficiencies have been corrected. Once this is accomplished the TJPA Representative will be notified that the facility is ready for the TJPA pre-final inspection.

Tab 5 Page **5** of **6** 8/27/12

W/O CQC Plan TTC Rev 7



PRE-FINAL INSPECTION

The TJPA Representative will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A TJPA Representative pre-final punch list may be developed as a result of this inspection. Webcor/Obayashi JV will ensure that all items on this list have been corrected before notifying the TJPA Representative, so that a final inspection can be scheduled. Items noted on the pre-final inspection will be corrected in a timely manner. These inspections and any deficiency corrections required by this paragraph must be accomplished within the time slated for completion of the entire work or any particular increment of the Work if the Project is divided into increments by separate completion dates.

FINAL ACCEPTANCE INSPECTION

The CQC System Manager, plus the Contractor's authorized representative and the TJPA Representative must be in attendance at the final acceptance inspection. Additional personnel from affected third parties may also be in attendance. The final acceptance inspection will be formally scheduled by the TJPA Representative based upon results of the pre-final inspection. The TJPA Representative will be notified at least 72 hours prior to the final acceptance inspection and include the Contractor's assurance that all punch list and nonconforming work will be complete and acceptable by the date scheduled for the final acceptance inspection.

W-00000 011400W01.7
6. QUALITY CONTROL PROCESS
 COORDINATION MEETING PREPARATORY PHASE INITIAL PHASE FOLLOW-UP PHASE TRADE CONTRACTORS CQC PLANS TRADE CONTRACTORS CQC MEETINGS



6. PROJECT QUALITY CONTROL PROCESS

The contractor quality control process is the means by which the Contractor, Trade Subcontractors and Suppliers, ensure that the construction complies with the requirements of the Contract. At least three phases of control must be conducted by the Trade Subcontractor CQC Manager for each definable feature of the construction work.

COORDINATION MEETING (MEETING OF MUTUAL UNDERSTANDING)

A meeting held after the pre-construction conference for each Trade Work Package and before start of construction. Contractor shall meet with the TJPA Representative and TJPA QA Manager and discuss the Contractor's quality control system as it relates to the work of the trade package. Submit the CQC Plan a minimum of 15 days prior to the coordination meeting. During the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's management and control with the TJPA Representative's quality assurance. Minutes of the meeting will be prepared by the TJPA Representative and signed by both the Contractor and the TJPA Representative and will become a part of the Contract file. There may be occasions when subsequent conferences will be called by either party to confirm mutual understandings and/or address deficiencies in the CQC system or procedures that may require corrective action by the Contractor.

PREPARATORY PHASE:

This phase is accomplished prior to beginning work on each definable feature of work, after all required plans, documents, and materials are approved and accepted, and after copies are at the work site. This meeting includes:

- 1. A review of applicable specifications, reference codes, and standards. The Trade Subcontractor CQC Manager shall make available during the preparatory inspection a copy of those sections of referenced codes and standards applicable to that portion of the Work to be accomplished in the field. Maintain and make available in the field for use by TJPA Representative until final acceptance of the Work.
- 2. Review of the Contract drawings.
- 3. Check to assure that all materials and/or equipment have been tested, submitted, and approved.
- 4. Review of provisions that have been made to provide required control inspection and testing.
- 5. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the Contract.

Tab 6 Page **1** of **4** W/O CQC Plan TTC Rev 7 8/27/12



- 6. Examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- 7. Review of the appropriate activity hazard analysis to assure environmental requirements are met.
- 8. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- 9. Check to ensure that the portion of the CQC Plan for the work to be performed has been accepted by the TJPA Representative.
- 10. Discussion of the initial control phase.

The TJPA shall be notified at least 48 hours in advance of beginning the preparatory control phase. Include a meeting conducted by the CQC System Manager and attended by the Trade Subcontractor's CQC Manager, other CQC personnel (as applicable), and the superintendent responsible for the definable feature. CQC System Manager shall document the results of the preparatory phase actions by separate minutes and attach the minutes to the daily CQC report. CQC System Manager shall instruct applicable workers as to the acceptable level of workmanship required in order to meet Contract requirements.

INITIAL PHASE:

This phase is accomplished at the beginning of each definable feature of work. This phase includes:

- 1. Reviewing the minutes of the preparatory meeting and ensuring any open issues have been resolved
- 2. Verifying the adequacy of controls to ensure full contract compliance, inspection and testing.
- 3. Establishing level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- 4. Resolving all differences.

The TJPA shall be notified at least 72 hours in advance of beginning the initial phase. The CQC System Manager shall prepare separate minutes of this phase and attach the minutes to the daily CQC report. The initial phase shall be repeated for each new definable feature of work.

DAILY QUALITY CONTROL ACTIVITIES:

The Webcor/Obayashi JV CQC manager and the Trade Subcontractor CQC Manager shall perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work that may be affected by the deficient work. Do not build upon or conceal non-conforming work.

Tab 6 Page **2** of **4** W/O CQC Plan TTC Rev 7 8/27/12



FOLLOW-UP PHASE:

CQC System Manager and the Subcontractor CQC manager shall perform daily checks to assure that control activities, including control testing, are providing continued compliance with contract requirements until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work that may be affected by the deficient work. New work shall not be built upon or conceal nonconforming work.

TRADE SUBCONTRACTORS QUALITY CONTROL PLAN

After contract award and prior to beginning construction activities each Trade Subcontractor will submit (per specification section 01 13 00 Submittals, paragraph 1.4) to the Webcor/Obayashi Joint Venture CQC Manager their project specific quality control plan for review and approval. Each Trade Subcontractor will designate and provide a project specific Trade Subcontractor Quality Control Manager who reports to the Webcor/Obayashi JV CQC Manager and who's primary responsibility will be to implement and manage the Trade Subcontractor's quality control plan and certify theTrade Subcontractor's compliance with the Webcor/Obayashi Joint Venture Quality Control Plan and all quality control requirements contained in the project documents including specification section 01 14 00 Quality Control. The Trade Subcontractors CQC program will be reviewed for compliance to the Contract Documents. In addition to the requirements contained in other sections of this Plan the Trade Contractors Quality Control Program will include:

- CQC Organization chart.
- Procedures for fabrication and installation.
- Procedures for planning and verifying compliance and controlling quality of the work (including checklist forms).
- Procedures for layout verification.
- Coordination with related contractors.
- List of specified tolerances and workmanship standards for each DFOW.
- Daily CQC Reports.
- Program for identifying and correcting defective work.
- Inspection, test and acceptance procedures when specified in the Technical Specifications to be part of the Trade Subcontractors scope
- A quality control Plan that addressed the Federal Transit Administration (FTA Quality Control Guidelines (ref: Transbay Transit Center Quality Management System Manual, Oct 2006)



TRADE SUBCONTRACTORS QUALITY CONTROL MEETINGS

In addition to the Three Phase of Control Meetings, A Trade Subcontractor CQC Meeting will be part of the Weekly Trade Subcontractors Meetings held by the Webcor/Obayashi JV Project Superintendent or Project Manager. The Trade Subcontractor CQC Manager will review current CQC issues as a segment of the weekly meeting; addressing the schedule, testing, inspection, rework log, failed inspection status, short-term schedule of CQC activities, project tests, submittal status, factory verification requirements, inspection results and any other CQC issues relevant to the current activities.

WO-CQC0001.7 69 of 93

7. Non-conformance and Corrective
ACTION
 OVERVIEW
 Non-conformance Observations and
REPORTING
Non-Conformance Report (NCR) Non-Conformance Log
Non-conformance Log
• CONTROL THE CONTINUATION OF WORK
 CORRECTIVE ACTION PLAN (CAP)



7. Non-conformance and Corrective Action

OVERVIEW

Should a non-conformance be identified by an inspection there is a systematic method to control the item, correct it, and ensure that project quality is not adversely impacted by the event. A non-conformance is an item that does not meet the requirements of the project specifications.

NON-CONFORMANCE OBSERVATIONS AND REPORTING

When work is identified as non-conforming it will immediately be segregated. Segregation may occur by physical isolation and cordoning off of work/materials, or conspicuously identified by tags/markings when physical isolation is not possible. The Trade Subcontractor CQC Manager will complete a Non-Conformance Report (NCR) (see forms Tab 12), and submit the report to the Webcor/Obayashi JV CQC Manager. Webcor/Obayashi JV will enter the non-conformance issue into CMiC for internal tracking. NCRs will be entered into Vela Systems

NON-CONFORMANCE REPORT (NCR)

When completing the Non-Conformance Report the Trade Subcontractor CQC Manager will describe the work in detail, its location, a description of the deficiency and the proposed resolution and actions taken to prevent the recurrence of the non-conformance (see form in Tab 12). Supporting documentation may be attached as necessary. The report will be forwarded to the Webcor/Obayashi JV CQC Manager. Non-conformance Report contents are summarized as follows:

Section 1: Non-conformance identification info: Contractor, location date, etc.

Section 2: Description of Non-conformance

Section 3: Cause

Section 4: Recommended Field Engineer Disposition (Trade Subcontractor CQC Manager)

Section 5: Project Engineering Disposition (TJPA)

Section 6: Disposition Results

Section 7: Corrective action and steps taken to prevent recurrence

Tab 7 Page **1** of **2** W/O CQC Plan TTC Rev 7 8/27/12

WO-CQC0001.7 71 of 93



NON-CONFORMANCE LOG

The project-wide Non-Conformance Tracking Log in Vela Systems is maintained by the TJPA Construction Management Oversight. Webcor/Obayashi JV and the Trade Subcontractors will maintain Non-Conformance logs appropriate for their scope of work

CONTROL THE CONTINUATION OF WORK

After the item of work is identified and segregated from all other active work, the Trade Subcontractor CQC Manager will determine if work can continue in the affected area. When continuing work can adversely affect quality or hide the defect, work must stop in the affected area until the disposition of the item is resolved. The Trade Subcontractor CQC Manager identifies and clearly labels the limits of the affected stop work areas.. Non-conforming work may be reworked to meet requirements, accepted as is, repaired, or rejected. If accepted as is or repaired, the Engineer of Record needs to approve the deviation from original specifications. When appropriate, non–conforming work may require an approved Corrective Action Plan.

CORRECTIVE ACTION AND CORRECTIVE ACTION PLANS (CAP)

Once a NCR cause has been determined, a written Corrective Action Plan (CAP) will be submitted by Webcor/Obayashi JV. The CAP will be written by the Trade Subcontractor and submitted to Webcor/Obayashi JV's CQC Manager who will review and forward it to the TJPA Representative via Constructware. Webcor/Obayashi will attach the submitted CAP to the NCR in Vela Systems for tracking. Once approved, the CAP will be implemented by the Trade Subcontractor.

Trade Subcontractor corrective action procedures shall be established for:

- Investigating the cause of nonconforming product and taking the corrective actions needed to prevent recurrence
- Analyzing processes to detect and eliminate potential causes of nonconforming product
- Initiating preventative actions to deal with problems to a level corresponding to the risks encountered
- Ensuring that corrective actions are taken and that they are effective
- Implementing and recording changes in procedures resulting from corrective action

WO-CQC0001.7 72 of 93



74 of 93



8. REPORTING

Daily Reports

- Webcor/Obayashi JV Daily CQC reports (see Tab 12 "Forms")
- Trade Subcontractors Daily CQC reports (see Tab 12 "Forms")

Weekly Reports

- Webcor/Obayashi JV Submittal log
- Webcor/Obayashi JV Requests for Information log

Monthly Reports

- Webcor/Obayashi JV Construction Monthly Report
- Webcor/Obayashi JV CQC Managers Monthly Status Report (included in the Construction Monthly Report

Periodic forms, reports and lists

- Definable Features of Work (DFOW) list
- Non-Conformance Report (see Tab 12 "Forms")
- Non-Conformance Log
- Independent testing agency reports

WO-CQC0001.7

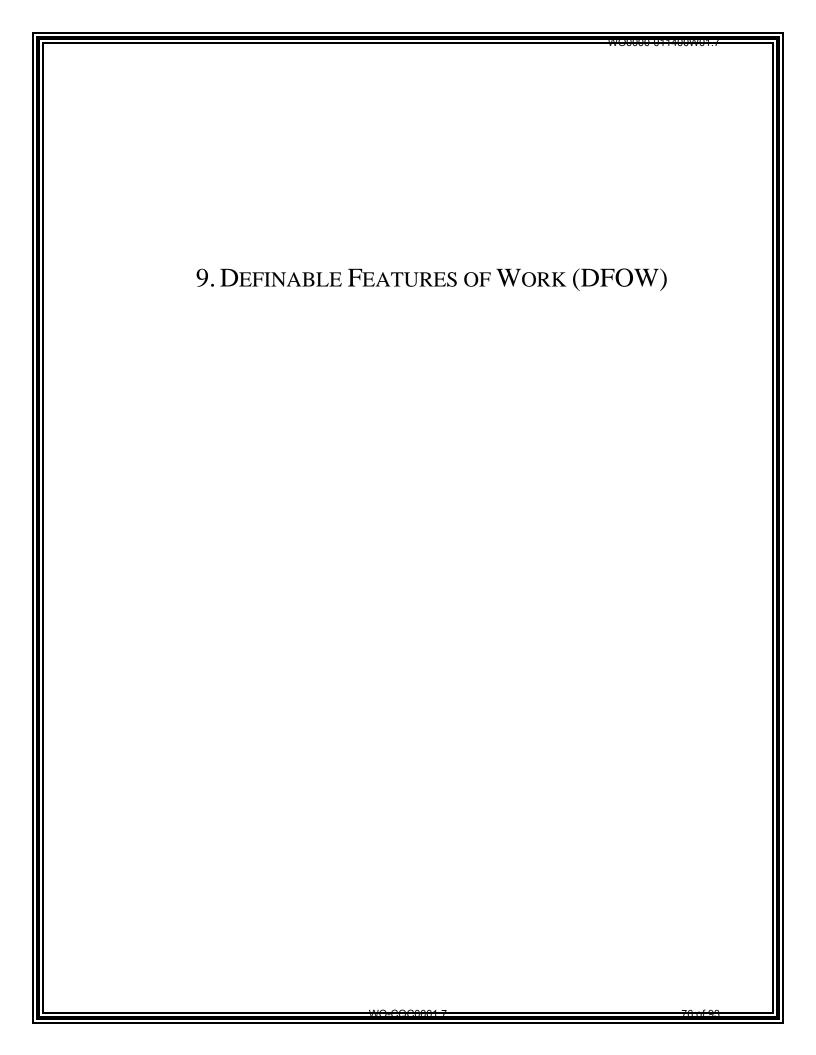


TRADE SUBCONTRACTORS QUALITY CONTROL REPORTING REQUIREMENTS

In addition to other information and documentation required to be submitted, described elsewhere in this CQC plan, the Trade Subcontractors CQC Manager will submit the following documents promptly to the Webcor/Obayashi JV CQC Manager:

- Trade Subcontractor Daily CQC reports
- Independent testing agency reports, calibration reports, (may be included as part of the Trade Subcontractor's Daily CQC report
- Preparatory Phase Meeting Documentation
- Initial Phase Meeting Documentation
- Follow-up Phase Changes in Procedures
- Non-Conformance Reports and associated corrective action plans (as required)
- QC Checklists (as required)

WO-CQC0001.7 75 of 93





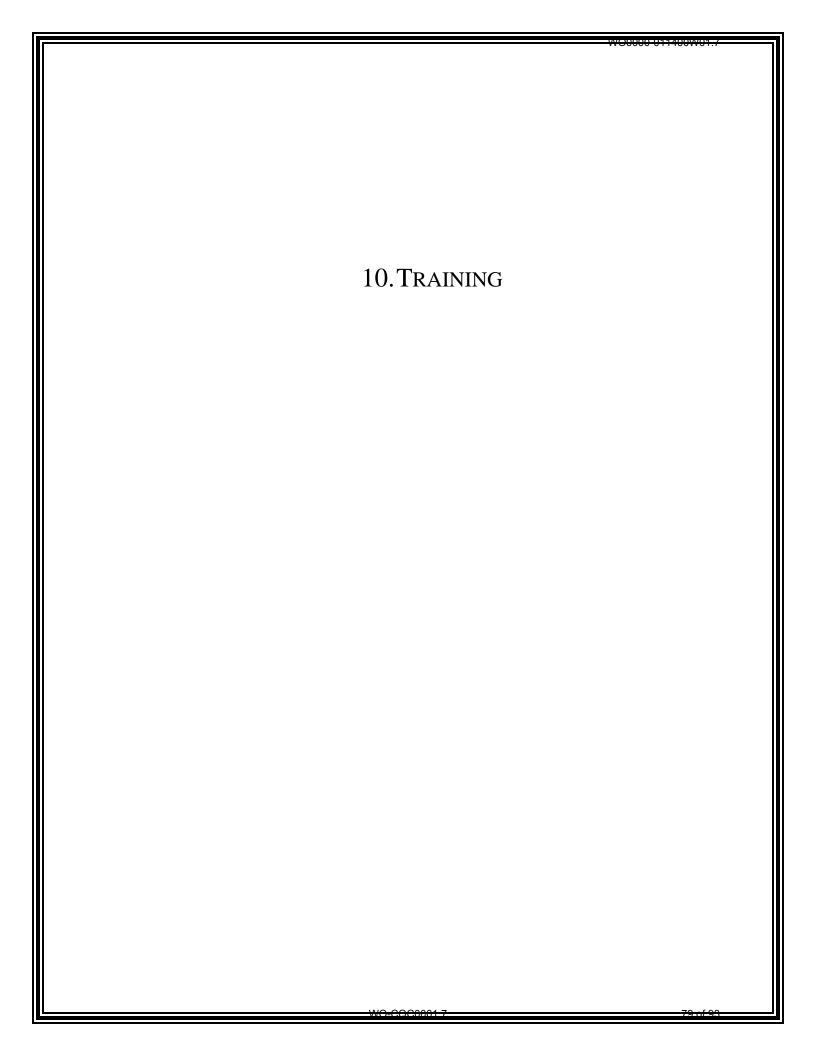
9. DEFINABLE FEATURES OF WORK (DFOW)

The Webcor/Obayashi CQC Manager working with the Trade subcontractors and production team reviews the project schedule, plans and specifications to establish a list of definable features of work. A definable feature of work is a task that is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each section of the Specifications may generally be considered as a definable feature of work, there are frequently more than one definable feature under a particular section. This list will be agreed upon during the coordination meeting.

The DFOW list will be developed incrementally and additional DFOWs will be added as trade subcontractors are brought on board. Trade subcontractors will submit their DFOW lists for approval, as part of their CQC Plans prior to the start of work. The DFOW list will be maintained in the Project Baseline Schedule (R3) 30100-11.09.06 and in spreadsheet format (see page 2 in this section; Tab 9). The DFOW list will include associated submittals.

W/O JV Transbay Terminal Center DFOW List Revised 7-31-12

	1	Page!!::-	Trade					1	A atuali-sal	Г
		Baseline	Trade	-: · · · · · · · · · · · · · · · · · · ·	Meeting	Follow up	Trade		Actualized	
Job Number	Trade Group	Schedule	Group	Discription/Feature of Work	Phase	meeting Phase	Subcontractor	Meeting Date	Meeting	Submittals
		Activity ID	Number			Ů			Date	
								1		
		l .				l		L		





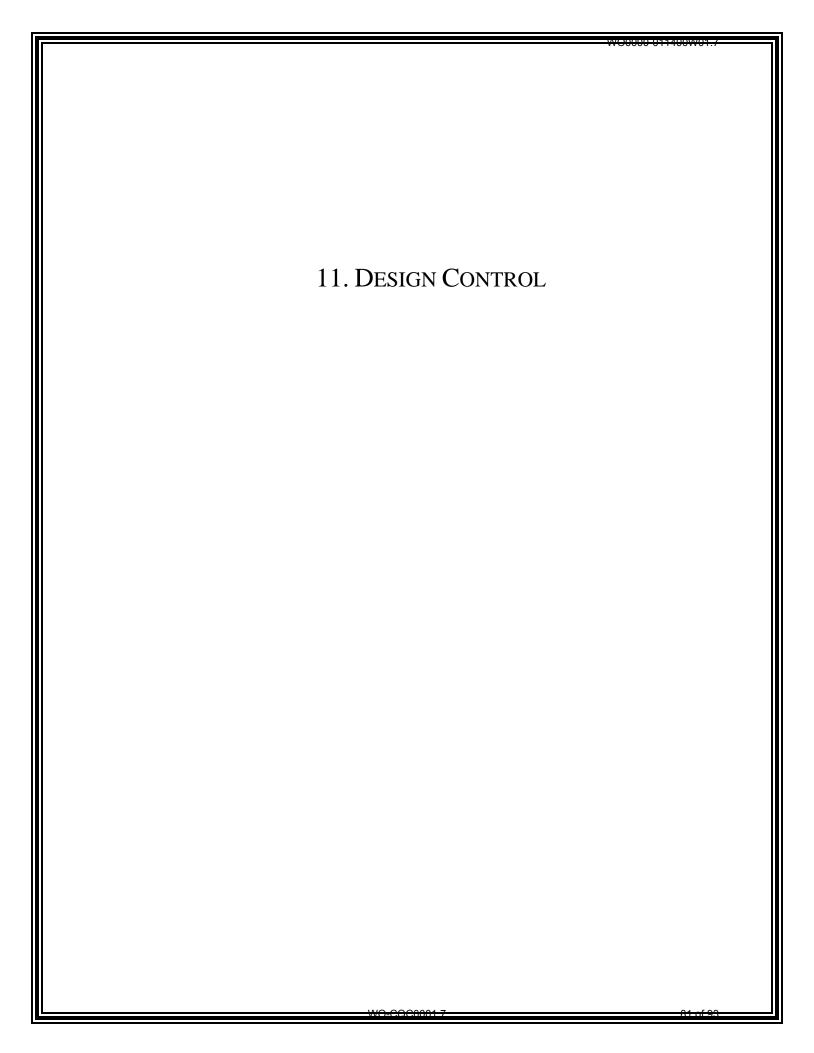
10. TRAINING

TRAINING

Webcor/Obayashi JV will ensure that only knowledgeable capable employees carry out the planning and execution of the work.

- Under the Direction of the W/O JV CQC manager the Trade Subcontractor CQC
 Managers will provide training on the elements of the Webcor/Obayashi JV and Trade
 Subcontractors site specific Contractor's Quality Control Plans to all trade subcontractor
 staff having CQC responsibilities.
- When specified in the Contract Documents, Trade Subcontractor CQC Managers will submit proof of tradespersons qualifications including licensing requirements, certifications or other required training qualifications for the specified task to Webcor /Obayashi JV and the TJPA.
- When specified in the Contract Documents, project or task specific training will be
 documented by the Trade Subcontractor. The Trade Subcontractor will provide
 Webcor/Obayashi JV with a copy of the training syllabus and list of attendees.
- Webcor/Obayashi JV Quality Control personnel will complete the U.S. Army Corps of Engineers/U.S. Navy Facilities Engineering Command, Construction Quality Management for Contractors (or equivalent).
- The Trade Subcontractor CQC Managers will maintain records of quality training for their personnel. The Webcor/Obayashi JV CQC Manager will maintain records of quality training for Webcor/Obayashi JV personnel.

Tab 10 Page 1 of 1 W/O CQC Plan TTC Rev 7 8/27/12





11. DESIGN CONTROL

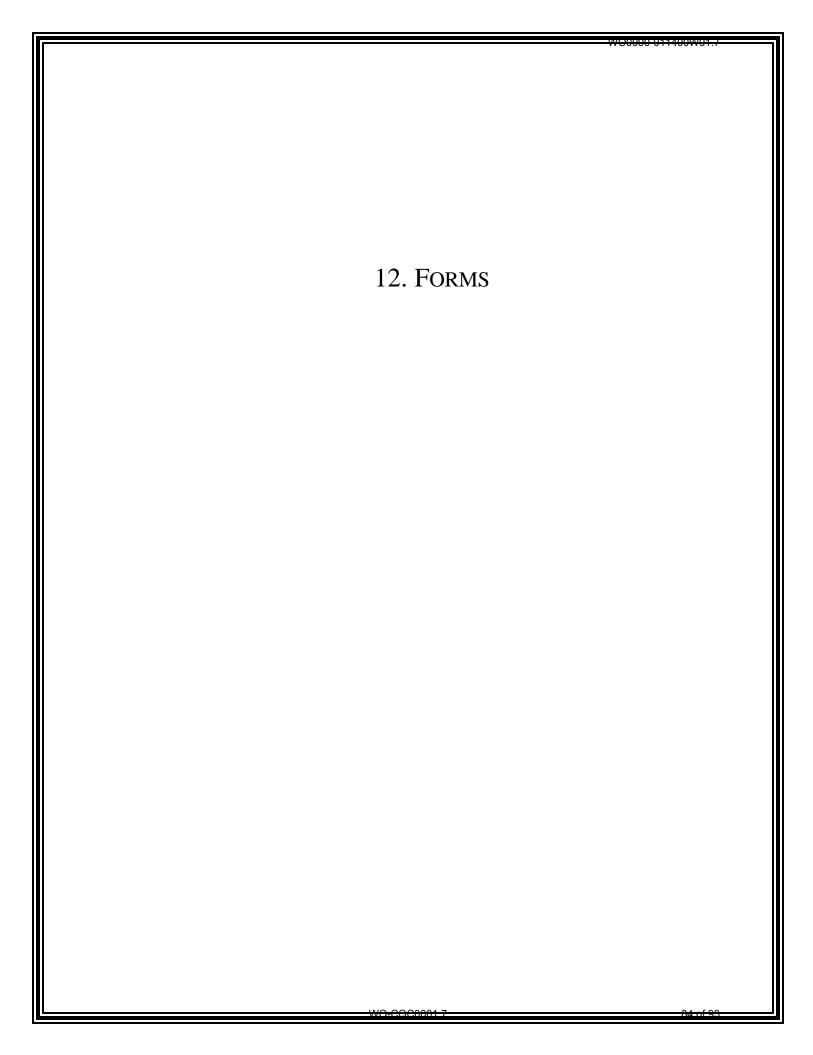
DESIGN CONTROL

Design control by Webcor/Obayashi is primarily accomplished by the daily maintenance of an accurate set of As-Built drawings by the Trade-Subcontractors per specification section 01 17 20 "Project As-Built Drawings", summarized below. Where Trade Subcontractors have design-build responsibilities (such as the access trestle and traffic bridges), their quality control plans shall include design control for their scope of work.

- The Trade Subcontractors shall keep an accurately marked, up-to-date set of as-built drawings for the work actually installed, and accurately indicate on as-built drawings all site conditions, locations of utilities, work scope changes, changes in dimensions, locations, and elevations of the Work, and changes in details as specified herein and as approved by the TJPA Representative. Trade Subcontractor shall keep the as-built drawings current as the Work is performed.
- Prior to acceptance of the Work, Trade Subcontractor shall furnish to the Webcor/Obayashi JV CQC Manager the final as-built drawings, showing all changes in the Contract Drawings neatly in red ink.
- Trade Subcontractors will delegate responsibility for maintenance, coordination, and accuracy of the as-built drawings to one person on their staff.
- Accuracy of as-built drawings shall be such that future searches for items shown on the Contract Documents may rely on information obtained from the approved as-built drawings.
- Trade Subcontractors shall store as-built drawings apart from documents used for performing the work; keep in a dry, legible condition, and in good order. Label each document "AS-BUILT DRAWINGS— JOB SET" in large, neatly printed letters.
- Trade Subcontractors shall record neatly on the as-built drawings all changes made by clarifications, Change Orders, Requests for Information, and other Modifications to the Contract Documents; and changes to reflect the actual existing conditions and utility locations references to permanent accessible features of the Work.
- Trade Subcontractors shall clearly describe changes on as-built drawings by note as required.
- Trade Subcontractors shall date all entries, calling attention to the entry by a "cloud" drawn around the area or areas affected.
- Trade Subcontractors shall record in each Specification Section the manufacturer, trade name, catalog number, and supplier of each product and equipment item incorporated into the Work.
- Trade Subcontractors shall furnish a copy of the final shop drawings which have been updated to show actual conditions. Furnish additional drawings as necessary to record deviations from the sizes, locations, and other features of the Work and to locate piping, conduit, ductwork, and similar elements of utility installations by dimensions referenced to permanent accessible features of the Work.

WO-CQC0001.7 82 of 93

- Trade Subcontractors shall show on the job set of as-built drawings, by dimension accurate to within 1 inch, the centerline of each run of conduits, circuits, piping, ducts, and similar items which are shown schematically on the Contract Drawings but where the final physical arrangement is determined by Trade Subcontractor.
- Trade Subcontractors shall keep as-built drawings up to date during the entire progress of the Work, and provide access for monthly. Updates shall be accurate and current and be done at the time work is performed.
- Trade Subcontractors shall also update and include the revised or newly issued drawings as part of the as built drawings. The work of reproducing and issuing Change Order drawings and updating of as built drawings shall be done as incidental work.





12 FORMS

OVERVIEW

The forms in this section are approved for use in Webcor/Obayashi's CQC program.

FORMS

- Submittals Checklist Used for each submittal to ensure completeness of documents before distribution and transmission to TJPA.
- Daily CQC Report Completed daily by Webcor/Obayashi and/or Trade Subcontractors CQC Management. Report is signed and dated by Webcor/Obayashi CQC Manager and submitted within 5 working days to TJPA Representative via Constructware.
- Non-Conformance Report Completed as necessary to report and track non-conforming work. Webcor/Obayashi JV tracks this report in CMiC and submits to TJPA Representative via Constructware.
- Preparatory Phase Checklist- Used by the Trade Subcontractors to plan and conduct Preparatory Phase Meetings
- Initial Phase Checklist- Used by the Trade Subcontractors to plan and conduct Initial Phase Meetings

SUBMITTAL PROCESS CHECKLIST

Submittal Packa	kage No.:	Date Received:
Submittal Name	me:	
☐ Review	w each submittal to:	
0	Verify that the submittal's contents match the accompa listed on the transmittal?	nying transmittal. Did we receive everything
0	Verify that the submittal's contents are complete per the packages need to be complete and should include <u>all</u> in submittals are to be rejected by W/O (if we don't the TJ).	formation necessary for review. Partial
0	Verify that the contents of the submittal are in conform appropriate contract documents.	•
0	Is the Submittal a Substitution?	
	■ No- Continue Processing Submittal	
	Yes -Reject submittals that are substitution requ substitutions.	uests- There is a separate process for
0	Verify that the trade subcontractor has checked and coomeasurements, with the requirements of the Work and	
0	Verify that the submittal complies with the requirement	ts of reference specifications –SFDPW, PG&E etc.
0	O Confirm that all professional certifications (stamp) w/lic	ense number and expiration date are provided
	and signed if required.	
0	Note any variations from the Contract requirements (if	there are create an issue in CMiC)
0	,	requests to verify dimensions, etc. If there are
	questions with the submittal:	
	 Can the questions be answered by W/O? 	
	 Does an RFI need to be submitted? 	
	 Does an issue need to be created in CMiC? 	
_	 Identify who is responsible for answering the quantum of the properties. 	
0		
	action plan to coordinate submittal information with AL	•
O	If the submittal is complete, stamp the first page of each stamped.	h item. If it is shop drawings, all sheets must be
Гrade Scope Su	Superintendent:	Date:
Trade Scope PN	PM:	Date
CQC Manager:_	:	Date:
J		··················· \

		CONTRACTOR QUALITY CONTR (ATTACH ADDITIONAL SHEETS IF NECESSA		RT	DATE	
PHASE	TRANSBAY		NUMBER: 310	00		
	WAS A PREPARA	ATORY MEETING HELD TODAY?		YES NO		
JOR.		AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLI	ST.			
PREPARATORY	Schedule Activity No.	Definable Feature of Work				
PREP						
	14/40 AN INUTIAL	PHASE MEETING HELD TODAY?		V.T.O		
	_	PHASE MEETING HELD TODAY? AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.		YES NO		
INITIAL	Schedule Activity No.					
Z	rictivity ivo.					
	WORK COMPLIE	S WITH CONTRACT AS APPROVED DURING INITIAL PHASE?		YES	□ NO □	
	Schedule	Description of Work. Testing Performed & By Whom. Definable Featu	re of Work. Specific	eation		
	Activity No.	Description of Work, Testing Performed & By Whom, Definable Featusection, Location and List of Personnel Present,				
<u>₽</u>						
FOLLOW-UP						
FOLI						
REWORK	ITEMS IDENTIFIE	D TODAY (NOT CORRECTED BY CLOSE OF BUSINESS, ASSIGN			AY (FROM REWORK ITEMS LIST, IF	
REWORK Issue	ITEM TRACKING I		COMPLETE REC Issue No.	ORD CORRECTION ON TRACKING Description	G LOG)	
DEMARK	C (Also Evalsia Ass	y Follow-Up Phase Checklist Item From Above That Was Answered "N	O") Manuf Dan On	Site etc		
Sched	lule Description	•	O), Mariur. Rep Ori	-Site, etc.		
Activity	No.	''				
		i, I certify that this report is complete and correct and				
complian	equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge					
except as	except as noted in this report. WEBCOR QC REPRESENTATIVE DATE					
WEBCOR	OBAYASHI QUAL	ITY CONTROL MANAGERS REMARKS AND/OR EXCEPTIONS TO T	HE REPORT			
	Schedule activity No. Description					
-	•					
			WEBCOR/OBAYAS	SHI JV CQC MANAGER: Bob Garcia	DATE	

		CONTRACTOR QUALIT (CONTINUATION (ATTACH ADDITIONAL SH	Y CONTROL REPORT DIN SHEET) FETS IF NECESSARY)	Ī	DATE
PHASE	TRANSE	BAY TRANSIT CENTER BUILDING	12020074117	PROJECT NUMBER:	3100
	WORK COMPLIE	S WITH CONTRACT AS APPROVED DURING INIT	TIAL PHASE?	YES 🗌	NO 🗌
	Schedule Activity No.	Description of Work, Testing Performed & By Who Section, Location and List of Personnel Present	om, Definable Feature of Work, Specification		
_					
FOLLOW-UP					
Į õ					
). 					
Ш					
REMARKS	I S (Also Explain Any	Checklist Item From Above That Was Answered "N	NO"), Manuf. Rep. On-Site, etc.		
Sched Activity	dule Descriptio	n			

W/O # Assigned by CMO QA Manager N	NCR #
Contract # Contractor/Sub(s)_	
Code/Spec/DwgLocation_	
Reference #s	_
Part/LotQuantitySupplier	_P.O
Initiated by/CoDate Issued	
Description of Non-Conformance	Code_ See QMS QA-08-3, over
Cause	Code_ See QMS QA-08-3, over
Because de d'Diene estiten	
Recommended Disposition Contractor Field Engineering Reject Remove, replace, meet spec Rework Fix to meet specifications	☐ Accept-As-Is Not to spec☐ Repair* Fix, but not to spec
Resolve as Follows Proposed resolution, repair or rework plan	·
Field Engineer Print Name, Org; Initial	Date
Engineer of Record Disposition Resolve as Follows	Accept-As-Is Not to spec
Engineer of Record Print Name, Org; Initial Date PM Concurrance Print Name, Org; Initial Date	Quality Review TJPA QA CQC
Disposition Results	
Contractor QC Acceptance Print Name, Org; Initial PM Verification Print Name, Org; Initial	Date Date
Corrective and Preventive Action (CAP) If required CAPA Verification Print Name, Org; Initial	

ASSE	MBLY	MATE	RIAL / SOILS
001 002 003 004 005 006 007 008 009 010	Interference/Improper Fit Dis-bonding/Adhesive Defect Incorrect Part Used Assembly Error Soldering Failure Other Assembly Related Defect	051 052 053 054 055 056 057 058 059 060	Incorrect Material Used Material Contaminated Gradation Test Failure Moisture Test Failure Density (Compaction) Test Sand Equivalent Test Failure Organic Content of Soils Durability Index Resistance (R-value) Other Material Defect
CERT	IFICATION / DOCUMENTATION	MATE	RIALS / CONCRETE & STEEL
011 012 013 014 015 016 017 018 019 020	Information Missing Information Incorrect Information Illegible Material Incorrect Inspection/Test Incorrect Data Out-Of-Spec. Other Cert./Documentation Error	061 062 063 064 065 066 067 068 069 070	Incorrect Materials Used Concrete Slump Test Failure Concrete Air Content Concrete Compressive Strength Test Failure Drying Shrinkage of Concrete Concrete Honeycombing Concrete Rock-Pocket/Voids Mis-fabricated Reinforcing Steel Assemblies Missing or Incorrect Reinforcing Steel Other Material Defects
	NSIONAL		DESTRUCTIVE EXAMINATION (NDE)
021 022 023 024 025 026 027 028 029 030	Thickness—Over/Under Size Diameter – Over/Under Size Length/Width—Over/Under Size Depth Incorrect Slope Incorrect Angle Incorrect Feature/Item Missing Position/Location Incorrect Radius Over/Under Size or Missing Other Dimensional Defect	071 072 073 074 075 076 077 078 079 080	Cracked Welds Foreign Material Component Gap/Fit-up Defect Undercut Porosity/Slag Lack of Penetration/Fusion Discontinuities Voids Delamination Other NDE Indications
INSTA	LLATION	SURF	ACE DEFECTS
031 032 033 034 035 036 037 038 039 040	Missing Hardware Missing Equipment Non-Standard Installation Incomplete Installation Non-Conforming Materials Used Equipment Damaged Incorrect Location Incorrect Orientation Other Installation Defect	081 082 083 084 085 086 087 088 089	Discoloration Blisters Sparing Burrs/Chips/Nicks Damaged/Bent/Torn/Twisted Contaminated Foreign Material Plating/Coating Defects Cracks Surface Irregular/Finish
	LLATION / TEST FAILURE		AL & OTHER DEFICIENCIES
041 042 043 044 045 046 047 048 049	Inspection/Test Equipment Failure Equipment Not Calibrated Procedural Under-Test Condition Electrical Test Failure Leak Test Failure Environmental Test Failure Functional Test Failure Mechanical Test Failure Other Inspection/Test Failure	091 092 093 094 095 096 097 098 099	Other Visual Anomaly
บอบ	Onler madechon/rest failure	100	Outer visual Attornativ

WO0000-011400W01.7

	PREPARATORY PHASE CHECKLIST			Enter Spec Section # Here				(DD /N 4N 4N 4 A A A
CONTRACT N	IO	(CONTINUED ON SECOND PAGE) DEFINABLE FEATURE OF WORK			SCHEDULE ACT		Enter Date	(DD/MMM/YY)
	Cnt# Here	Enter DFO	W Here			Act ID Here		ndex# Here
	GOVERNMENT I				YES	NO 🗌		
-	NOTIFIED NAME		POSITION			COMPANY/GOVI	ERNMENT	
Ä								
ES								
P								
荲								
PERSONNEL PRESENT								
380								
Ä								
	DEVIEW CUDMI	TTALE AND/OD CUDMITTAL DECICTED TIAN	/F ALL CUDMITTAL C DE	-EN ADDDOVED	2		YES 🗌	, , , , , , , , , , , , , , , , , , ,
		TTALS AND/OR SUBMITTAL REGISTER. HAV	E ALL SUBMITTALS BE	EEN APPROVED	(YES 🔲	NO 🗌
	IF NO, WHAT ITE	EMS HAVE NOT BEEN SUBMITTED?						
ဟု								
SUBMITTALS	IF NO, WHAT ITE	RIALS ON HAND? EMS ARE	YES	NO 🗌				
Ę	MISSING?	<u></u>						
В								
ร								
		/ED SUBMITTALS AGAINST DELIVERED MAT	TERIAL. (THIS SHOULD	D BE DONE AS M	ATERIAL ARRIVES	i.)		
	COMMENTS:							
		S STORED PROPERLY?	YES	NO 🗌				
A B	IF NO, WHAT AC	CTION IS TAKEN?						
ERI								
MATERIAL STORAGE								
ΣÓ								
	REVIEW EACH F	PARAGRAPH OF SPECIFICATIONS.						
\mathbf{S}								
SPECIFICATIONS	DISCUSS PROC WORK.	EDURE FOR ACCOMPLISHING THE						
, AT								
딜								
EC								
SP	CLARIFY ANY D	IFFERENCES.						
		-						
	ENSURE PRELIM	MINARY WORK IS CORRECT AND PERMITS	ARE ON FILE.					
∠ ⊒s		ACTION IS TAKEN?						
AR,								
JE JE								
PRELIMINARY WORK & PERMITS								
Ж Х								
N N								
						011557.4.05	•	

WO0000-011400W01.7

	WHOM.		
	WHEN REQUIRED?		
	WHERE REQUIRED?		
<u>8</u>			
TESTING			
"			
	REVIEW TESTING PLAN.		
	HAS TEST FACILITIES BEEN		
	APPROVED?		
	ACTIVITY AND ANALYSIS ADDROVEDS		
	ACTIVITY HAZARD ANALYSIS APPROVED?	YES NO	
>	REVIEW APPLICABLE PORTION OF EM 385-1-1.		
SAFETY			
SA			
Ø	NAVY/ROICC COMMENTS DURING MEETING.		
MEETING COMMENTS			
M			
O.			
0			
Ž			
iii Iii			
≥			
	OTHER ITEMS OR REMARKS:		
œ			
0 (0			
R X			
E W			
OTHER ITEMS OR REMARKS			
Ė			
	<u> </u>		
		QC MANAGER	DATE

	INITIAL PHASE CHEC	KLIST	SPEC SECTION	DATE
ONTRACT	NO DEFINABLE FEATURE OF WORK		SCHEDULE ACT NO.	INDEX#
	GOVERNMENT REP NOTIFIED HOURS IN ADVANCE:		YES NO	
Þ	NAME	POSITION	j.	Y/GOVERNMENT
SE				
Ä				
죠.				
Ē				
Ž				
SSC				
PERSONNEL PRESENT				
PROCEDURE COMPLIANCE	IDENTIFIY FULL COMPLIANCE WITH PROCEDURES IDENTIFICATION COMMENTS:	IED AT PREPARATORY. CO	OORDINATE PLANS, SPECIFICATIONS, A	IND SUBMITTALS.
& Z ≥ Z				
<u>ი</u> გ				
	ENSURE PRELIMINARY WORK IS COMPLETE AND CORREC	T. IF NOT, WHAT ACTION IS	S TAKEN?	
Ϋ́				
PRELIMINARY WORK				
ELIMINA				
∄⋗				
PR				
SHIP	ESTABLISH LEVEL OF WORKMANSHIP. WHERE IS WORK LOCATED?			
WORKMANSHIP	IS SAMPLE PANEL REQUIRED? WILL THE INIITAL WORK BE CONSIDERED AS A SAMPLE? (IF YES, MAINTAIN IN PRESENT CONDITION AS LONG AS PO	DSSIBLE AND DESCRIBE LC	YES NO YES NO CATION OF SAMPLE)	
_	RESOLVE ANY DIFFERENCES.			
RESOLUTION	COMMENTS:			
5				
٥ ا				
ES				
~				
CHECK SAFETY	REVIEW JOB CONDITIONS USING EM 385-1-1 AND JOB HAZ COMMENTS:	ARD ANALYSIS		
ΑF				
8				
EC				
끙				
OTHER	OTHER ITEMS OR REMARKS			
)TC				
		QC MANAGER		DATE

Construction Stormwater Pollution Control/Compliance Plan

Transbay Transit Center Project San Francisco, California



Prepared for: Webcor /Obayashi

SOIL FEB 44 PIN 1 19

WESTEWATER ENTERPRISE
COLLECTION SYSTEM DIVISION

// wreco

Prepared by:

Transbay Transit Center San Francisco, California

Construction Stormwater Pollution Control/Compliance Plan

Submitted to: Webcor /Obayashi

This report has been prepared by or under the supervision of the following Qualified Storm Water Pollution Prevention Developer and Construction General Permit Trainer of Record.

De box Carry, QSD, ToR, CEG

Pelo 22, 2011
Date

Table of Contents

1	Reg	gulatory Setting	1
2		ject Information	
		ject Description	
		ject Size and Total Disturbed Area	
		ceiving Waters and Environmentally Sensitive Areas	
	2.5 Cor	nstruction Activities and Schedule	9
	2.6 Pot	ential Construction Site Pollutant Sources	0
	2.7 Ide	ntification of Non-Storm Water Discharges 1	2
3		st management Practices (BMPs)	
		IP Objectives	
	3.2.1 Er	osion Control BMPs	4
	3.2.2 Se	diment Control BMPs	4
	3.2.3 Tra	acking Control BMPs1	5
	3.2.4 Wi	ind Erosion Control BMPs	5
	3.2.5 No	on-Storm Water Control BMPs 1	5
	3.2.6 Wa	aste Management/Materials Control BMPs 1	6
4	BM	IP Inspection, Maintenance and Record Keeping 1	8
5		t of Contractors/Subcontractors2	
6	Inst	tructions to Field Personnel2	22
7	Clo	osing	23
F	igures		
	0	ject Location Map	4
		nstruction Zone Locations	
	_	lities DSA Map	
	•	ging DSA Map	
Т	ables		
		l Land Disturbance	5
		ntial Stormwater Pollutants	
		struction Sediment Control BMPs	
		te Management and Material Handling Control BMPs	
		le Subcontractor Maintenance, Monitoring and Repair Procedures	
1	aoie 3. Trad	to Subcontractor Maintenance, Monitoring and Repair Procedures	· O
٨	nnondia	200	
	Appendic		
	Appendix A	Inlet Locations	
	appendix B	Construction Stormwater Controls Monitoring Checklist	
A	appendix C	SFPUC Construction Pollution Prevention Guide	

February 2011 i

1 REGULATORY SETTING

The Transbay Transit Center Project (Project) meets federal Clean Water Act (CWA) and State Porter – Cologne Water Quality Control requirements via connection to the combined wastewater and stormwater sewer system operated by the San Francisco Public Utilities Commission (SFPUC) under a State Water Resources Control Board-issued National Pollutant Discharge Elimination System (NPDES) permit (Order No. R2-2002-0073, NPDES Permit No CA0037664). The Project is therefore not subject to coverage under the California Construction General Stormwater Permit (Order 2009-0009-DWG), that became effective on July 1, 2010; however, the construction site must implement Best Management Practices (BMPs) to prevent pollutant discharge into the combined sewer to comply with the San Francisco municipal ordinances and codes described below. This Construction Stormwater Pollution Control/Compliance Plan provides a delegation strategy along with best management practice (BMP) categories for compliance with stormwater regulations covering construction activities at the Project.

San Francisco Ordinance

San Francisco has a Stormwater Discharge Controls Ordinance requiring Pollution Prevention Procedures during any construction conducted in the City of San Francisco. In general the ordinance discusses long term BMPs such as rain gardens and green roofs particularly applicable to redevelopment areas and sections of the City serviced by small municipal separate storm sewer systems (MS4); however aspects of the ordinance apply to construction activities. For example, although coverage under the NPDES General Construction Permit (Water Board Order No. 99-08-DWQ) is not required for projects in those areas of the city that drain to the combined sewer system; all construction sites must implement BMPs to prevent illicit discharge into the combined sewer. Generally, City requirements include the development of a Storm Water Pollution Prevention Plan (SWPPP), SWPPP plan review by SFPUC, stormwater treatment measures, runoff monitoring, and frequent site inspections. The regulations also require the use of construction period (and operational period) BMPs on construction sites to keep pollutants (sediment and construction site debris), out of water conveyance systems, the treatment plants, and discharge points.

San Francisco Public Works Code

The federal CWA requires that publicly-owned treatment works (POTW) regulate the discharge of industrial wastes into a sewer system subject to NPDES permit requirements, and since construction activity is regulated under the industrial category, San Francisco's department of public works (DPW) has adopted requirements for construction discharges to the combined sewer system. Under DPW regulations, discharges of construction storm water as well as any wastewater (such as dewatering from construction sites) is subject to the requirements of Article 4.1 of the San Francisco Public Works Code, which regulates the quantity and quality of discharges to the combined sewer system. Projects that conduct any dewatering activity are required to apply for a Wastewater Batch Discharge Permit from the SF PUC WWE_CSD. Information on the Batch Discharge Permit and pre-treatment can be found online at: http://sfwater.org/msc_main.cfm/MC_ID/14/MSC_ID/445.

Order No. 158170 of the San Francisco DPW provides additional pre-treatment industrial waste discharge limits to augment those listed in Article 4.1. The San Francisco Municipal Code requires contractors to have a Sediment and Erosion Control Plan for projects that discharge to the Combined Sewer System.

RESPONSIBLE PARTIES

The legally Responsible Party for the Project is the Transbay Joint Powers Authority (TJPA). The TJPA consists of a collaboration of Bay Area government and transportation agencies, and is managed by TJPA staff and overseen by a Board of Directors. For site-specific concerns that can be addressed by TJPA, please call **415.409.TJPA** (**8572**).

Webcor /Obayashi is a joint venture contracting group hired by TJPA as general contractor for the Transbay Terminal Center Phase of the Project. Webcor /Obayashi will be subcontracting construction to Trade Subcontractors who will be responsible for preparing SWPPPs specific to their construction activity, schedule, discharge points, types of pollutants and construction boundaries. The Trade Subcontractors will be responsible for preparing and submitting for approval a SWPPP including furnishing, installing, maintaining and removing BMPs such as silt fence, filter boxes, construction entrances, sediment traps, dust control, dewatering and other erosion and sediment control measures during construction to prevent contamination of storm water from construction activities and to maintain compliance with the SF storm water ordinance and codes. For site-specific NPDES concerns that can be addressed by Webcor/Obayashi, please call 415.978.5726.

February 2011 2

2 PROJECT INFORMATION

2.2 Project Description

The Project is located generally between Second Street in the west, Beale Street in the east, Natoma Street in the south and Minna Street in the north (Figure 1). The Project is part of a larger \$4 billion transportation and housing expansion/redevelopment effort that will replace an old Transbay Terminal at First and Mission streets with a modern regional transit hub connecting eight Bay Area counties and the State of California through 11 transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, Muni, SamTrans, WestCAT Lynx, Amtrak, Paratransit and future High Speed Rail from San Francisco to Los Angeles/Anaheim.

The entire Project consists of three broad activities as noted below. Webcor /Obayashi are the general contractors and have prepared this Construction Stormwater Pollution Control/Compliance Plan to provide for compliance with stormwater regulations covering construction activities.

- Utility Relocation
- Train Box and Transit Center Building Construction
- Bus Ramp Construction

February 2011 3

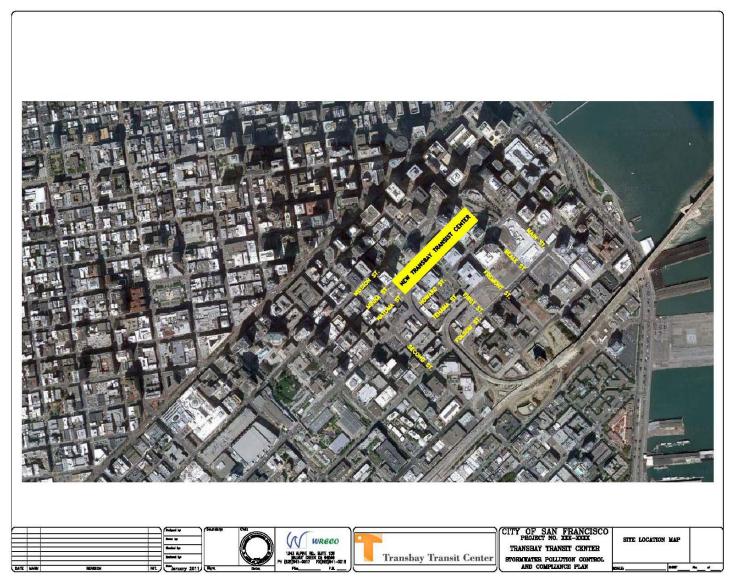


Figure 1. Project Location Map

2.3 Project Size and Total Disturbed Area

The estimated total disturbed soil area (DSA) for the Project is approximately 12.3 acres and includes the areas where the soil might be potentially disturbed by construction activities, as follows:

Table 1. Total Land Disturbance

Area Name	Approximate Area Disturbed (Acres)
Zone 1	2
Zone 2	1.8
Zone 3	1.5
Zone 4	4
Linear Utility	2.5
Relocation	2.3
Additional	3
Staging/Disturbance	3
Total	12.3

Figures 2 and 3 show general locations for the DSA construction zones and linear utility relocation trade packages. Several staging areas are anticipated during the life of the Project as shown in Figure 4.

February 2011 5

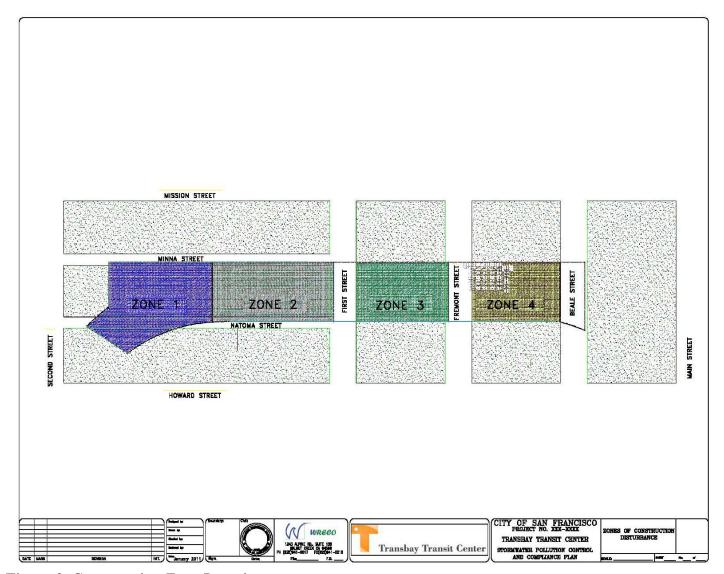


Figure 2. Construction Zone Locations

February 2011 6

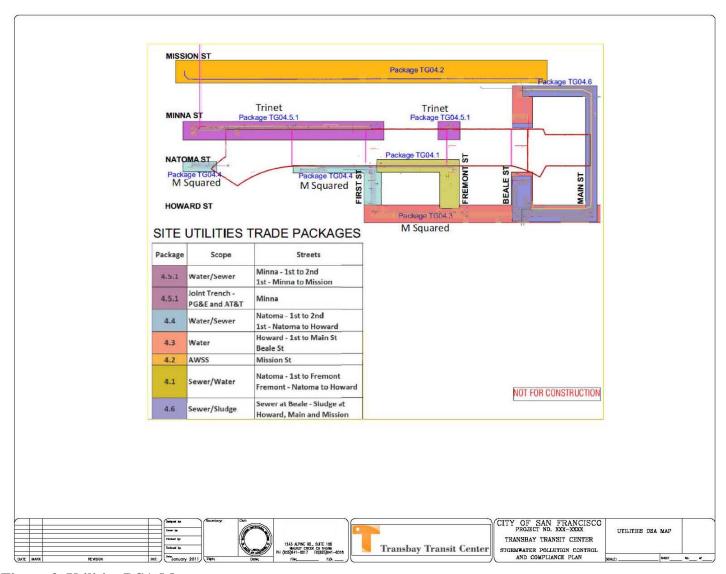


Figure 3. Utilities DSA Map

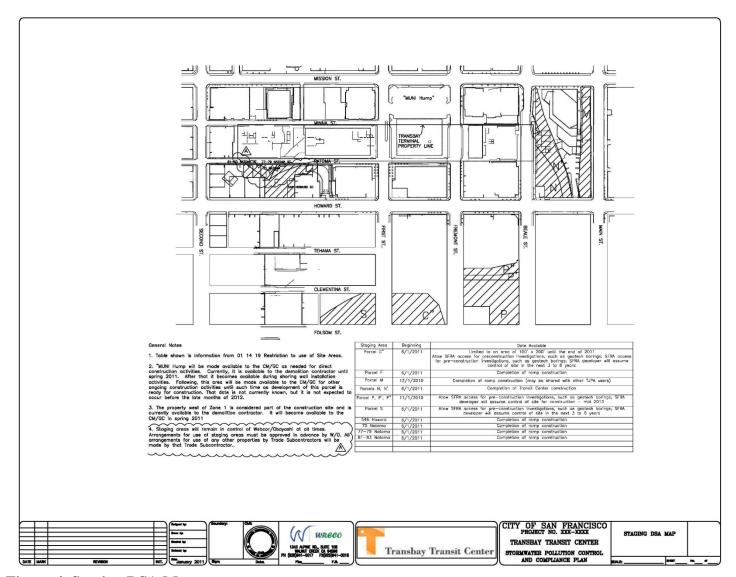


Figure 4. Staging DSA Map

2.4 Receiving Waters and Environmentally Sensitive Areas

The Project is located within the northeastern section of the City of San Francisco. The Project does not discharge directly to jurisdictional "receiving water." The San Francisco combined sanitary/storm water sewer system collects all storm and waste water discharging in the Project vicinity and pipes the water to the Southeast Water Pollution Control Plant for processing and discharging under NPDES Permit No CA0037664. The SE plant currently treats runoff to secondary treatment standards established by the USEPA, meeting or exceeding water quality objectives in San Francisco Bay.

The San Francisco Bay Area has a climate characterized by wet winters and dry summers. Average annual rainfall in the area is approximately 20 inches. The majority of this rainfall generally occurs from November through April with little rainfall during the remaining months of the year. Construction for the Project will span a period of several years including both wet and dry seasons. The project does not impact any known environmentally or culturally sensitive areas. For information regarding any environmentally sensitive habitat concerns, please refer to the Biological Resource Assessment. For information on cultural or other CEQA or NEPA requirements, please refer to the appropriate State or Federal Agency.

2.5 Construction Activities and Schedule

The Project activities include but are not limited to clearing, excavation and backfill, construction and finishing work within a busy city environment with established infrastructure. Several staging areas are anticipated during the life of the Project. Construction equipment and materials will be stored both onsite and at staging areas. As a result, fueling and maintenance, as well as welding and fabrication, may take place onsite. A discussion of the pollutants with potential to contact storm water as a result of these activities is included below. Since demolition of the existing ramps and terminal is currently underway by another contractor (Evans Bros Inc), the first phase of the Webcor-Obayashi Project includes utility relocation, followed by subexcavation in preparation for construction of the Transit Center Building/Train Box. Construction overseen by Webcor-Obayashi will create a new five-story Transit Center with one above-grade bus level, ground-floor, concourse, and two below-grade rail levels serving Caltrain and future California High Speed Rail, and includes new bus ramps to connect the Transit Center to a new off-site bus storage facility and the SF-Oakland Bay Bridge. Construction of the Project should be completed within or near the year 2017.

The following list generally outlines the expected Project construction schedule:

- 1. Utility relocation November 2010-September 2011.
- 2. Protection of perimeter: March 2011.
- 3. Trade Subcontractors awarded contracts: April 2011.
- 4. Activity specific SWPPPs submitted by Trade Subcontractors: April 2011.
- 5. Sediment control products ordered and stored on site by Trade Subcontractors: May 2011.
- 6. Stabilized construction entrance, equipment parking, covered storage and any concrete wash areas constructed by Trade Subcontractors: May 2011.
- 7. Excavation and Dewatering by Trade Subcontractors: May 2011-April 2014.

- 8. Transit Center Building Construction: May 2013-August 2017.
- 9. Bus Ramps: 4th quarter 2012-4th quarter 2014.
- 10. Construction of the concrete form box and train box by Trade Subcontractors: TBD.
- 11. Vertical Construction by Trade Subcontractors: 2013-2017.
- 12. Monitoring and Maintenance of BMPs: Entire construction timeline by Trade Subcontractors.
- 13. All BMPs functional: Entire construction timeline.

2.6 Potential Construction Site Pollutant Sources

Potential materials expected from the project include, but are not limited to, excavated soil, oil products (gasoline, diesel, hydraulic oil, and kerosene), solvents, concrete and curing compounds, and other construction materials. Construction on the project site will require temporary disturbance of surface soils and removal of existing on-site pavements and subsurface structures. During the construction period, excavation and grading activities will result in exposure of soil to water runoff, and the use of haul trucks that could track material away from the construction site. Much of the excavated material will be typical of coarser sandy soil particles that do not mobilize easily. However, some of the material may consist of relatively mobile fine sediments (silt and clay). Most excavation will occur in a below-grade pit which will drain internally and contain storm water; however construction activities will impact areas outside of the excavation areas that drain toward the San Francisco combined sewer drain inlets. Water in excavation pits from rainfall and groundwater seepage would contain sediment. Removal of the pit water will probably require sediment removal before it can be discharged into the storm drains (see SF PW Code paragraph above).

Soil and debris on the haul truck tires exiting the site could be deposited on local streets and Transport in storm water into the storm drain. The majority of construction debris and materials would be loaded onto trucks within the interior of the construction boundaries, rather than from public sidewalks or streets bordering the project site. The construction debris and materials would then be hauled off site. Therefore, soil stockpiles would be minimized on site.

In addition to sediment, Table 2 lists expected construction materials that could generate pollutants, describes their chemical and physical properties, and identifies potential pollutants associated with them. This list should be updated as the project proceeds and additional phases begin.

Table 2. Potential Stormwater Pollutants

Source	Chemical/Physical	Storm Water Pollutants*
	Description	
Diesel Fuel	Clear, blue-green to yellow liquid	TPH-diesel, benzene, toluene, ethylbenzene, xylenes, naphthalene
Concrete Work	Cement, fly ash, aggregate	рН
Oil and Grease	Brown oily petroleum	TPH-motor oil, oil and grease
Used Oil (oil only)	Brown oily petroleum	TPH-motor oil, oil and grease, LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc)
Excavated and Stockpiled Soil	Solid particles	Soil, sediment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	TPH-gasoline, benzene, toluene, ethylbenzene, xylenes. For "old" releases, include DIPE; ETBE; MTBE; TAME; TBA; 1,2-dibromoethane (1,2-DBA); and 1,2-dichloroethane (1,2-DCA)
Hydraulic Oil/Fluids	Brown oily petroleum hydrocarbon	TPH-hydraulic oil, benzene, toluene, ethylbenzene, xylenes, LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc)
Sanitary/Septic Waste	Sewage products	Coliform, <i>E. coli</i> , viruses, solvents (i.e. volatile organic compounds such as trihalomethanes and the dichlorobenzene isomers), nitrate
Trash; Windblown and Other	Paper, pipe, electrical wires etc.	Paper, pipe, electrical wires etc.

Notes: *<u>TPH</u>-gasoline = total petroleum

hydrocarbons quantified as gasoline (the same pattern

for TPH-diesel, TPH-motor oil, TPH-hydraulic oil)

<u>BTEX</u> = benzene, toluene, ethylbenzene, and xylenes

 $\overline{\text{DIPE}}$ = di-isopropyl ether

 \overline{ETBE} = ethyl tertiary butyl ether

 $\overline{\text{MTBE}}$ = methyl tertiary butyl ether

 $\overline{\text{TAME}}$ = tertiary amyl methyl ether

<u>TBA</u> = tertiary butyl alcohol

 $\overline{\text{LUFT}}$ = leaking underground fuel tank

<u>PCBs</u> = polychlorinated biphenyls

February 2011

Pollutants of concern in the San Francisco Bay include, but are not limited to, mercury, diazinon and Polychlorinated Biphenyls (PCBs). These chemicals are not easily broken down and they tend to adhere to particles of sediment, so can be removed from stormwater in BMPs that trap sediment. For this reason, sediment trapping BMPs are highlighted in the treatment controls listed for the project. Additional pollutant categories that can be anticipated in stormwater leaving the project include oil and grease, trash, sediment, organic compounds, pesticides, nutrients and metals.

2.7 Identification of Non-Storm Water Discharges

Non-storm water discharges include a wide variety of sources and may contribute pollutant loads if not controlled. They can include, but are not limited to:

- discharges of process water
- saw cutting slurry
- air conditioner condensate
- non-contact cooling water
- vehicle wash water
- sanitary wastes concrete washout water
- paint wash water
- irrigation water
- pipe testing water
- natural groundwater seepage

Measures to control spills, leakage, and dumping, and to prevent illicit connections during construction must be addressed through structural as well as non-structural BMPs. Certain non-storm water discharges may be necessary for the completion of construction projects. Authorized non-storm water discharges may include those from de-chlorinated potable water sources such as: fire hydrant flushing, irrigation of vegetative erosion control measures, pipe flushing and testing, water to control dust, uncontaminated ground water dewatering, and other discharges not subject to a separate general NPDES permit adopted by a region. Authorized non-storm water dewatering discharges require a permit. Information can be found online at: http://sfwater.org/msc_main.cfm/MC_ID/14/MSC_ID/445.

Each Trade Subcontractor is responsible for procuring the necessary dewatering permits for construction activities undertaken. The SFPUC prohibits the discharge of storm water that causes or threatens to cause pollution, contamination, or nuisance.

Additionally, all SWPPs prepared by Trade Subcontractors must include procedures and practices designed to minimize or eliminate the discharge offsite of pollutants from vehicle and equipment cleaning, fueling, maintenance operations and other non-storm water. Project monitoring by trade Subcontractors will include a visual check for non-storm water discharges and non-storm water discharge potential.

3 BEST MANAGEMENT PRACTICES (BMPS)

BMPs shall be implemented as listed in this Plan and additionally as necessary to adequately minimize erosion on site and limit sediment transport off site to an acceptable level in accordance with the SFPUC regulations and all City Codes and Ordinances.

Erosion and sediment control measures are needed throughout the year on the Project. In particular, stormwater catch basins must be protected year round. During dry season development, BMPs will be primarily designed to mitigate the movement of sediment and pollutants off site by tracking from grading equipment and from wind. Wet season BMPs are designed to prevent soil from washing off graded areas during rainy periods, tracking of soil and pollutants off site by vehicles and any other movement of pollutants from the Project.

3.2 BMP Objectives

This Construction Stormwater Pollution Control/Compliance Plan provides the following BMP objectives:

- Provide overall guidance to Trade Subcontractors in preparing SWPPPs and dewatering plans specific to their construction activities, construction timelines and drainage areas for submittal to the SFPUC.
- Delineate typical construction pollutants and their sources, including sources of sediment
 associated with construction, construction site erosion and other activities associated with
 anticipated construction activity. Trade Subcontractors are expected to expand and amend the
 information provided here within to tailor their SWPPPs to their activities.
- Outline best management practice (BMP) categories that need to be included in the SWPPPs prepared, submitted and maintained by the Trade Subcontractors to a level that results in the reduction or elimination of pollutants in storm water discharges and authorized non-storm water discharges from construction activity to the standard required by the SFPUC.

BMPs categories listed in this Construction Stormwater Pollution Control/Compliance Plan should be reviewed by the Trade Subcontractors, added to their SWPPs as applicable and additionally installed, maintained, monitored and reported as practicable to adequately minimize erosion on site and limit sediment transport off site to an acceptable level. Adjustments and modifications to the BMPs identified in this Plan need to be implemented by the Trade Subcontractors as necessary to maintain the construction site in accordance with the provisions of the SFPUC regulations and all City Codes and Ordinances.

The SFPUC identifies the following list of BMPs and pollution prevention measures that must be implemented at all construction sites:

- Identify all storm drains and catch basins near the construction site and ensure all workers are aware of their locations to prevent pollutants from entering them.
- Protect all storm drain and catch basin inlets.
- Develop an erosion control and sediment control plan for wind and rain.
- Develop spill response and containment procedures.
- Inspect site regularly to ensure that BMPs are intact.

- Conduct daily site cleanings as needed.
- Educate employees and subcontractors about BMPs.
- Regularly maintain all BMPs at project site.

3.2.1 Erosion Control BMPs

Erosion control practices consist of source control measures designed to prevent soil particles from becoming dislodged and transported in storm water runoff, while sediment control measures filter and otherwise recover soil particles from runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles and in many cases, are more effective, less expensive, and require less maintenance and repair. Although they typically function by protecting the surface of exposed soil, erosion control measures cannot be effectively applied until grading activities are complete or idle.

At the Project, erosion is expected to occur primarily as a result of pavement removal, soil disturbance and subsequent wind or rain. For this reason, BMPs to limit the timing of soil disturbance and provide timely stabilization for the disturbed soil surface should be the focus of erosion control efforts for the site. Erosion control BMPs such as scheduling and non-vegetative soil stabilization (soil binders) should be considered by each Trade Subcontractor (TS) and added to their SWPPPS to control soil erosion on the construction site. Modifications to the BMPs may be necessary should construction activities or the construction schedule be altered. If modifications are needed to the BMPs, the Trade Subcontractor should work with the SFPUC to amend the SWPPP and Erosion Control BMPs to satisfactorily meet City storm water regulations.

Scheduling should be implemented throughout the project as a means of ensuring that significant earth-disturbing activities are avoided if rain is forecasted. If there are exposed areas that are not being actively worked the trade Subcontractors should consider stabilizing all areas as practical. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: www.casqa.org.

3.2.2 Sediment Control BMPs

Sediment control is any practice that traps soil particles after they have been detached and moved by rain, flowing water, or wind. Sediment control measures are usually passive systems that rely on filtering or settling the particles. Sediment control, or capturing the sediment once it is mobilized, is considered back up or secondary to good erosion control.

Table 3 indicates the BMPs for sediment control that should be considered and included in SWPPPs by trade Subcontractors as applicable on the construction site.

Table 3. Construction Sediment Control BMPs

BMP Name
Silt Fence
Fiber Rolls
Gravel Bag Berm
Sand Bag Barrier
Storm Drain Inlet Protection
Stockpile Management

If additional information or instructions are needed for BMP installations, the CASQA website and Cutsheets can be found at: www.casqa.org.

3.2.3 Tracking Control BMPs

Tracking control consists of preventing or reducing the tracking of sediment off site by vehicles. Daily inspections will be conducted at the construction entrances and if track-out is observed, the area will be swept by the Trade Subcontractors. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: www.casqa.org.

3.2.4 Wind Erosion Control BMPs

Wind Erosion Control is a very important BMP for the Project. All Trade Subcontractors are required to comply with the regulations specified by the local Air Quality Control District. Construction will be halted if required to do so due to high wind conditions as specified by the local Air Quality Control District, and/or common sense. Alternative forms of wind erosion control such as tackifiers and covers will be utilized as necessary to avoid and minimize windblown dust from leaving the project site. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: www.casqa.org.

3.2.5 Non-Storm Water Control BMPs

Non-storm water management BMPs are source control BMPs that prevent pollution by limiting or reducing potential non-storm water pollutants at their source or eliminating offsite discharge. These practices involve day-to-day operations of the construction site and are also referred to as "good housekeeping practices" which involve keeping a clean, orderly construction site.

Non-storm water management BMPs includes procedures and practices designed to minimize or eliminate the discharge of pollutants from vehicle and equipment cleaning, saw cutting, pipe testing and other activities that generate liquid slurry or water based effluent. All storm/sanitary drain inlets should be located and protected during construction such that non-storm water carrying pollutants does not enter the inlets. Paving and concrete work should be undertaken during dry weather and drain inlets covered

during these activities. During wet weather construction, the drain inlets should be protected with a BMP that filters water such as sediment traps, silt bags and straw wattle.

3.2.6 Waste Management/Materials Control BMPs

Waste management and materials pollution control BMPs, like non-storm water management BMPs, are source control BMPs that prevent pollution by limiting or reducing potential pollutants at their source before they come in contact with storm water.

These BMPs also involve day-to-day operations of the construction site, are under the control of the Trade Subcontractors, and are additional "good housekeeping practices" which involve keeping a clean, orderly construction site. Waste management consists of implementing procedural and structural BMPs for handling, storing, and disposing of wastes generated by a construction project. The objective is to prevent the release of waste materials into storm water runoff or discharges through proper management of the following types of wastes:

- Solid
- Sanitary
- Concrete
- Hazardous
- Equipment related wastes

Materials pollution control (also called materials handling) consists of implementing procedural and structural BMPs in the handling, storing, and the use of construction materials. The BMPs are intended to prevent the release of pollutants during storm water and non-storm water discharges. The objective is to prevent or reduce the opportunity for contamination of storm water runoff from construction materials by covering and/or providing secondary containment of storage areas, and by taking adequate precautions when handling materials. Material Safety Data Sheets, covered and secondary containment and employee training are important examples of materials pollution control. These controls must be implemented for all applicable activities, material usage, and site conditions by each Trade Subcontractor working on the Project.

The following BMP Table 4 indicates the BMPs for Trade Subcontractors to utilize to control construction site wastes and materials for the project.

Table 4. Waste Management and Material Handling Control BMPs

BMP Name
Material Delivery & Storage
Material Use
Spill Control
Solid Waste Management
Hazardous Materials/ Waste Management
Concrete Waste Management
Sanitary/Septic Waste Management
Liquid Waste Management

Fuel (gasoline/diesel), hydraulic oil, motor oil, and other liquid or hazardous waste materials used for vehicle and equipment maintenance may be used on the construction site and at the lay down areas if applicable permits are obtained and spill/response measures are adhered to. Minor amounts of lubricants and hydraulic fluid may be stored in vehicles. Spill response equipment will also be located onsite and near active construction.

Waste management BMPs includes procedures and practices designed to minimize or eliminate the discharge of pollutants from vehicle and equipment use, as well as fueling and maintenance operations to storm water drainage systems or to watercourses. Drip pans, diapers or alternative containment will be placed under equipment and vehicles (as applicable during maintenance or if leaking is suspected) while not in use, to catch and/or contain drips and leaks and prevent soil contamination. Construction crews will be educated to check parking areas visually for signs of leaking liquids; any vehicles found to be leaking onto the soil surface will be provided with temporary drip pans while at the project site. Fueling may be conducted on the job site and at the lay down area if fueling BMPs are implemented, appropriate permits are obtained and proper spill control policies and procedures are followed.

It is important that Trade Subcontractors minimize or abate the exposure of materials stored or spilled at the site. Spill Response Procedures for smaller spills are presented in BMPs. If a larger spill or discharge offsite occurs, or if the project receives a written notice or order from any regulatory agency, Trade Subcontractors will follow their Health & Safety Plan and Spill Prevention Countermeasure and Control Plan (SPCC) as well as comply with all Federal, State and local spill reporting regulations.

4 BMP INSPECTION, MAINTENANCE AND RECORD KEEPING

Inspection and maintenance of BMPs are an integral part of the Project and will be followed by the Trade Subcontractors. During visual inspections, if any BMP deficiencies or any storm water compliance issues are observed, the Trade Subcontractor's Construction Supervisor will be notified immediately and the deficiencies will corrected as soon as possible. The Trade Subcontractors are responsible for maintaining and/or submitting any required monitoring records as required by regulatory agencies in accordance with current regulatory guidelines.

Table 5. Trade Subcontractor Maintenance, Monitoring and Repair Procedures

PRACTICE	MONITORING, MAINTENANCE AND REPAIR PROCEDURES
Erosion Control	Check all soil protection including fabric, plastic, rock, hydroseed, mulch and velocity dissipation before, during and after rain events. Repair or replace as necessary to maintain proper function.
Street Cleaning	Streets must be periodically cleaned. Large quantities of soil tracked onto the street will be picked up by a loader bucket and/or hand shoveled back onto the pad. Streets must also be swept on an as-needed basis to maintain continuous sediment and litter control. Street washing shall not be done.
Sediment Control	Check integrity and functioning of berms, straw bales, check dams, and silt fences. Repair any eroded areas and remove accumulated debris.
Inlet Protection	Monitor installation and maintenance of sediment barriers and inlet protection devices. Check periodically during storms and repair or remove sediment as necessary to maintain appropriate functioning.
Temporary Basins	Remove accumulated sediment when sediment accumulates to within one foot of the outlet elevation and restore original dimensions of the basin. Obtain dewatering discharge permit from SFPUC prior to any dewatering of stored surface or groundwater.
	Petroleum products shall be stored out of the rain and waste materials shall be stored in secured containers. Paints, solvents, enamels, sealers, bonding agents, and other chemicals shall be stored inside a covered, secure area.
Materials/ Equipment Storage	Keep designated storage areas clean and well organized. Conduct weekly monitoring to check for damaged containers, leaks, etc.
	 Keep chemicals in original containers and keep them labeled. Train employees and subcontractors on the use of the storage area.
Fueling Practices	If refueling of equipment is conducted on site, make sure that

PRACTICE	MONITORING, MAINTENANCE AND REPAIR PROCEDURES
	fueling is occurring in designated areas and that secondary containment items such as drain pan or drop cloth are nearby to catch fuels/leaks.
	Inspect and maintain vehicles and equipment regularly to minimize leaks and drips.
	Comply with Federal, State and local requirements for fuel storage tanks.
Herbicide/ Pesticide Application	Provide the landscape contractor with knowledge about proper procedures for application of designated chemicals.
Waste Disposal	Provide proper disposal procedures for specific materials
Litter Control	Place trash bins in appropriate locations and are being used properly. Pets will not be allowed on the Project during construction.
Equipment Cleaning	If equipment cleaning is done on site, make sure contractors are using designated, bermed wash areas to prevent wash water from entering storm drain system.

5 LIST OF CONTRACTORS/SUBCONTRACTORS

The following is a partial list of Trade Subcontractors, suppliers and consultants that may be employed on the Project. Names and contact numbers for each activity on the list can be obtained from Webcor /Obayashi upon request. This list is to be updated as necessary. This plan can be utilized as part of a subcontractor notification letter to document Subcontractors notification of their obligation to uphold applicable storm water pollution control regulations.

TRADE	NAME	Signature Indicating Willingness To Provide, Maintain, and Implement SWPPP in compliance with all applicable City Ordinances and Codes
Architect		
Bricklayers		
Cabinet Makers		
Carpenters (finish)		
Carpenters (rough)		
Ceramic Tile Installers		
Civil Engineer		
Cleaning Crews		
Concrete Subcontractors Testers		
Demolition Contractors		
Door Installers		
Drywall Installers		
Electricians		
Environmental Consultants		
Fence Builders		
Fireplace Installer		
Flooring Installers		
Garage Door Installers		
Glass Workers		
Grading Contractors		
Hardware Installers		
HVAC Contractors		
Insulation Contractors		
Marble Contractors		
Masonry Contractors		

TRADE	NAME	Signature Indicating Willingness To Provide, Maintain, and Implement SWPPP in compliance with all applicable City Ordinances and Codes
Millwork Suppliers		
Landscaping Contractors		
Landscape Maintenance Crews		
Lumber and Truss Suppliers		
Mirror and Shower Door Installers		
Painting Contractors		
Paving Contractors		
Pipeline Contractors		
Plaster Contractors		
Plumbing Contractors		
Roofing Contractors		
Shelving Installers		
Striping and Signage Contractors		
Stucco Contractors		
Termite Contractors		
Underground Utility Crews	Trinet	
Waterproofing Subcontractors		
Window Installers		

6 INSTRUCTIONS TO FIELD PERSONNEL

Webcor /Obayashi will be responsible for mandating that SWPPP documents be prepared by Trade Subcontractors and also for observing the site on a regular basis in keeping with the standard of care for a General Contractor. Webcor /Obayashi will coordinate day to day oversight of the Project as a whole, track compliance with their contract obligations as well as Trade Subcontractor costs, direct Trade Subcontractors to maintain the Project site in accordance with all applicable regulations, and attend to discussions with the City regarding compliance concerns. Contracts with Trade Subcontractors and Sub tier Subcontractors shall include a requirement to comply with the provisions of this Plan and to maintain compliance with all applicable City Ordinances and Codes. The Trade Subcontractors, Sub tier Subcontractors and their Project Superintendents for this project are hereby authorized to uphold, certify, and maintain their own SWPPPs and to distribute it to all field personnel responsible for monitoring the site and maintaining compliance with storm water regulations. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this Plan and the SWPPP developed for Trade Subcontractor activities and any alterations thereof made at the time and in the manner herein specified, and in all respects according to its intent and meaning, and shall indemnify and hold harmless Webcor /Obayashi, its officers and agents, if failure to conform results in legal action or any other action by the Regional Water Quality Control Board or City. Duties of the Trade Subcontractors include but are not limited to:

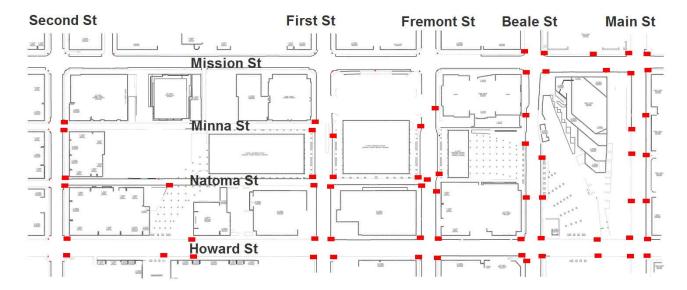
- Maintaining full compliance with their SWPPP and all City Codes and Ordinances.
- To this effect, the Trade Subcontractors shall have authority to mobilize their own crews for:
 - o BMP Installation, monitoring and maintenance.
 - Obtaining dewatering and other applicable permits necessary for the satisfactory completion of their contract.
 - o Providing for elimination of all unauthorized discharges.
 - Coordinating with the City such that all updates, amendments, corrections and/or repairs are made in a timely fashion.
 - O Stopping any construction activity that is in violation of municipal ordinances or codes or that is inconsistent with the provisions of the Trade Subcontractors SWPPP.

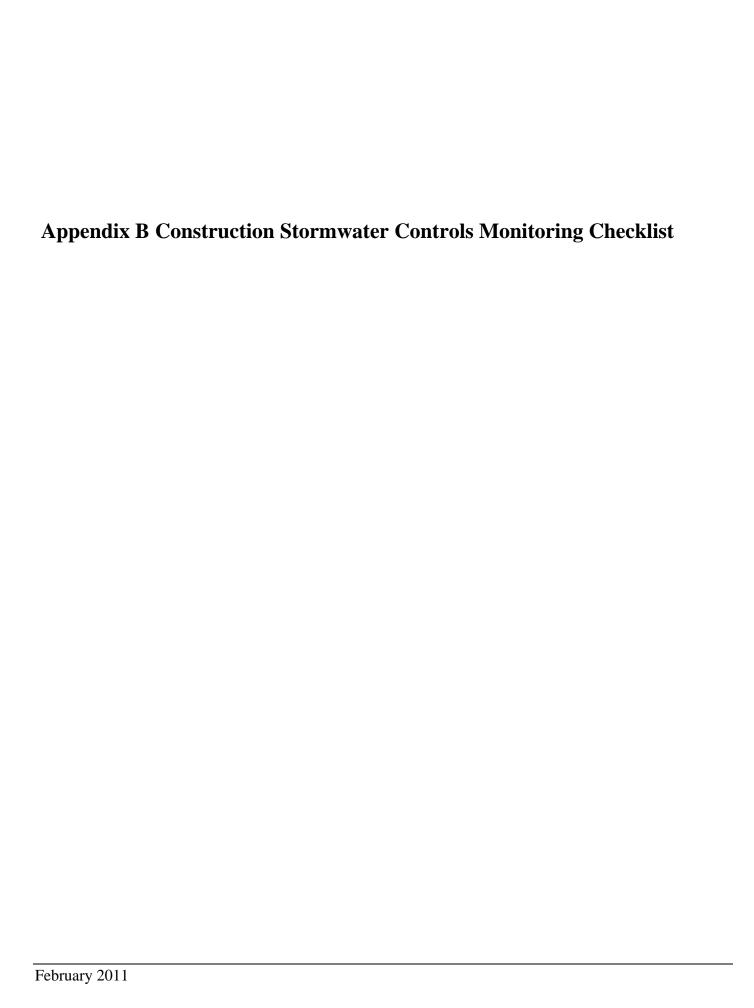
7 CLOSING

The Project will comply with the storm water discharge regulatory framework in the site vicinity through implementation of this Construction Stormwater Pollution Control/Compliance Plan. This Plan indicates that each Trade Subcontractor is responsible for preparing, submitting for approval, installing and maintaining a SWPPP with BMPs for protecting inlets to the SF combined sewer system from construction activities. BMPs included in the SWPPPs prepared by each Trade Subcontractor should include practices from the BMP categories outlined in this Plan. The SWPPP shall be implemented concurrently with the commencement of Trade Subcontractor construction activities and maintained by the Trade Subcontractor in a form that provides the Project with full compliance throughout the construction schedule for activities undertaken by the Trade Subcontractor. Though projects such as the subject Project that are serviced by the combined sewer system in San Francisco are not subject to the terms of the State Construction General Permit, Section A of the Construction General Permit describes in detail the requirements for a SWPPP, and the City and County San Francisco specifies that it should be used as a design guide. All construction sites must prevent illicit discharge into the SF combined sewer system.

Appendix A	Inlet Location Map		

TRANSBAY TRANSIT CENTER Existing Catch Basin

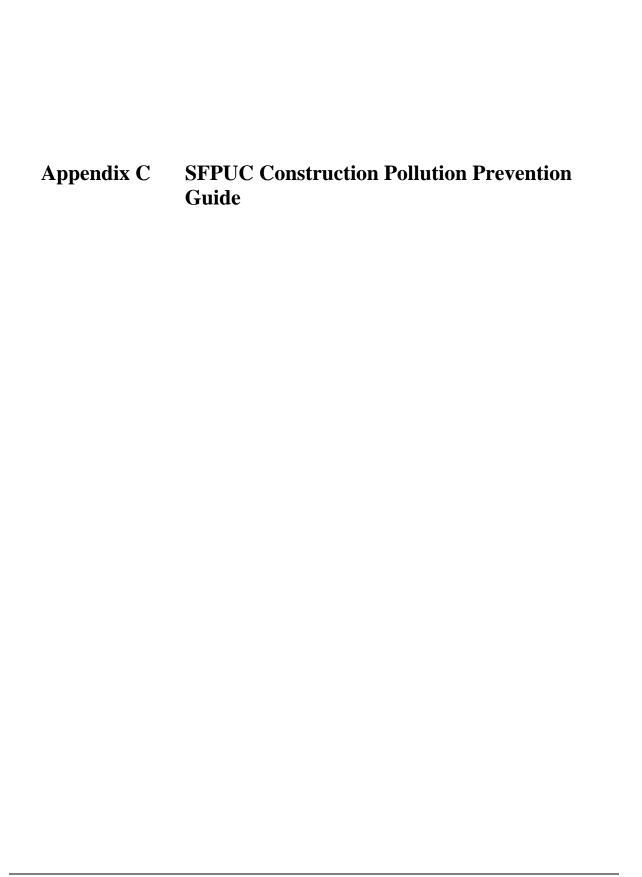




CONSTRUCTION STORMWATER CONTROLS MONITORING CHECKLIST

WEBCOR/OBAYASHI TRANSBAY TERMINAL PROJECT

Date:				
Inspector Name:		Description	n of Inspected Area:	
24hr Rainfall Amount:	Weather Condition	ns:		
Name of Trade Subcontractor Re	presentative:		Contact (Cell Phone #)	:
Erosion/Sediment Controls	Repairs Needed	ОК	Owner of Repair Task	Comments/Date Corrected
Check Dams/Sediment Traps				-
Drainage Swales/Lined Ditches				
Entrance/Outlet/ Tire Wash				
Barrier (Sandbag/Gravel Bag)				
Fiber Rolls/Wattles/ Silt Fence				
Covers (Geotextile/Fabric/Plastic)				
Inlet Protection				
Soil Tackifiers/Dust Control Emuls	_			
Street Sweeping/Vacuuming				
Other:				
Good Housekeeping Controls	Repairs Needed	ок	Owner of Repair Task	Comments/Date Corrected
Concrete Washout				
Dewatering System/Operation				
Illicit Connection Detection				
Material Delivery/Storage/Use)				
Paving and Grinding Operations				
Pile Driving Operations				
Sanitary/Septic Waste Manageme				- -
Spill Prevention and Control				-
•				
Equipment Servicing	_			·
Waste Management				
Visual Observation of Runoff	Repairs Needed	OK	Owner of Repair Task	Comments/Date Corrected
Sediment Laden/Turbid				-
Oily Sheen				
Odor				
Documentation	Repairs Needed	ок	Owner of Repair Task	Comments/Date Corrected
SWPPP on Site				
BMP materials Stockpiled				
Spill Control in Compliance	П			-
Discharge Permit Posted				
Training Logs Available				
Inspection Logs Filled Out				
Other:				
Comments:				



Don't Be Caught **Unaware** New **Pollution** Prevention Requirements for the Construction *Industry*



Pollution Prevention Guide for the

Construction Industry





Keep it on Site

Water Pollution Prevention Program

Best Management Practices

he San Francisco Public Utilities Commission (SFPUC) is pleased to announce **Keep it on Site**, as part is its new program to prevent water pollution at construction sites.

Runoff from construction sites is a major source of water pollution, and is subject to requirements such as the development of a stormwater pollution prevention plan, a plan review, stormwater treatment measures, runoff monitoring and increased site inspections.

As part of our Construction Site Water Pollution Prevention Program, this brochure will assist construction professionals understand and comply with the new State and Federal laws. Here, you will find valuable information on methods used on construction sites to keep pollution, such as dirt and construction site debris out of our sewage treatment system and sensitive local water bodies.

We hope to make your job easier while keeping our city clean by providing you with the information to create an efficient and environmentally safe construction site.

Together, we have the ability to preserve the quality of life in San Francisco.



Water Pollution Prevention Program
San Francisco Public Utilities Commission
City and County of San Francisco
3801 3rd Street, Suite 600
San Francisco CA. 94124

Constuction Site Runoff: (415) 695-7310 http://pollutionprevention.sfwater.org The goal of the Water Pollution Program is to control pollution at its source in order to protect the Bay, ocean, creeks and lakes.

Useful links about other pollution prevention programs throughout San Francisco:

San Francisco Water Pollution Prevention Program http://pollutionprevention.sfwater.org

State Water Board www.waterboards.ca.gov/sanfranciscobay

International BMP Database www.bmpdatabase.org

California Stormwater Quality Association www.cabmphandbooks.com

Emergency Phone Numbers

To report illegal dumping of hazardous materials or wastes to the storm drain or sewer system, call San Francisco Water Pollution Prevention Program hotline: (415) 695-2020

Hazardous Spills: 911

Inspection and Enforcement Program

The Construction Site Inspection and Enforcement Program was established to ensure that all businesses operate in compliance with all appropriate stormwater laws and other City requirements. Contractors, site supervisors and property owners can be held responsible for violations, which may lead to a civil penalty of up to \$25,000 per day and reimbursing the City for all expenses associated with clean up¹.

Construction materials such as paint, dirt, and trash often find their way into our storm drains,

jeopardizing San Francisco's sewer system, and polluting surrounding local water bodies.

Contractors are now required to implement what are known as Best Management Practices (BMPs) on all construction sites. BMPs are methods used to keep pollution out of our storm drains and catch basins and off of City property such as sidewalks, streets, and alleys. Installing and maintaining these BMPs on the construction site is critical to protecting our sensitive water bodies.

If your project is greater than 1 acre, you are required to prepare a formal Stormwater Pollution Prevention Plan (SWPPP). Please contact SFPUC's Environmental Regulation and Management for more information at (415) 695-7310.

The following is a list of BMPs and pollution prevention measures that must be implemented at all construction sites.

- Identify all storm drains and catch basins near the construction site and ensure all workers are aware of their locations to prevent pollutants from entering them.
- Protect all storm drain and catch basin inlets.
- Develop an erosion control and sediment control plan for wind and rain.
- Develop spill response and containment procedures.
- Inspect site regularly to ensure that BMPs are intact.
- Conduct daily site cleanings as needed.
- Educate employees and subcontractors about BMPs.
- Regularly maintain all BMPs at project site.

¹ San Francisco Sewer Use Ordinance Article 4.1. Public Works Codes

BEST MANAGEMENT PRACTICES

Site Overview

This drawing illustrates Best Management Practices (BMPs) that must be followed at all construction sites in San Francisco.

Preserve existing vegetation

Preserving existing trees and vegetation where possible will prevent erosion.

Paint and Stucco

All paint and stucco materials stored on the site must be contained and covered. It is illegal for contractors to wash out paintbrushes in the street or dump any residues in the sewer or the storm drain. Paintbrushes and spray guns shall be washed/cleaned out into a hazardous materials barrel or put back into its original container and disposed of properly. Latex paint should be dried in its container and placed in the garbage. Oil paint and thinners need to be recycled as hazardous wastes.

Perimeter Controls

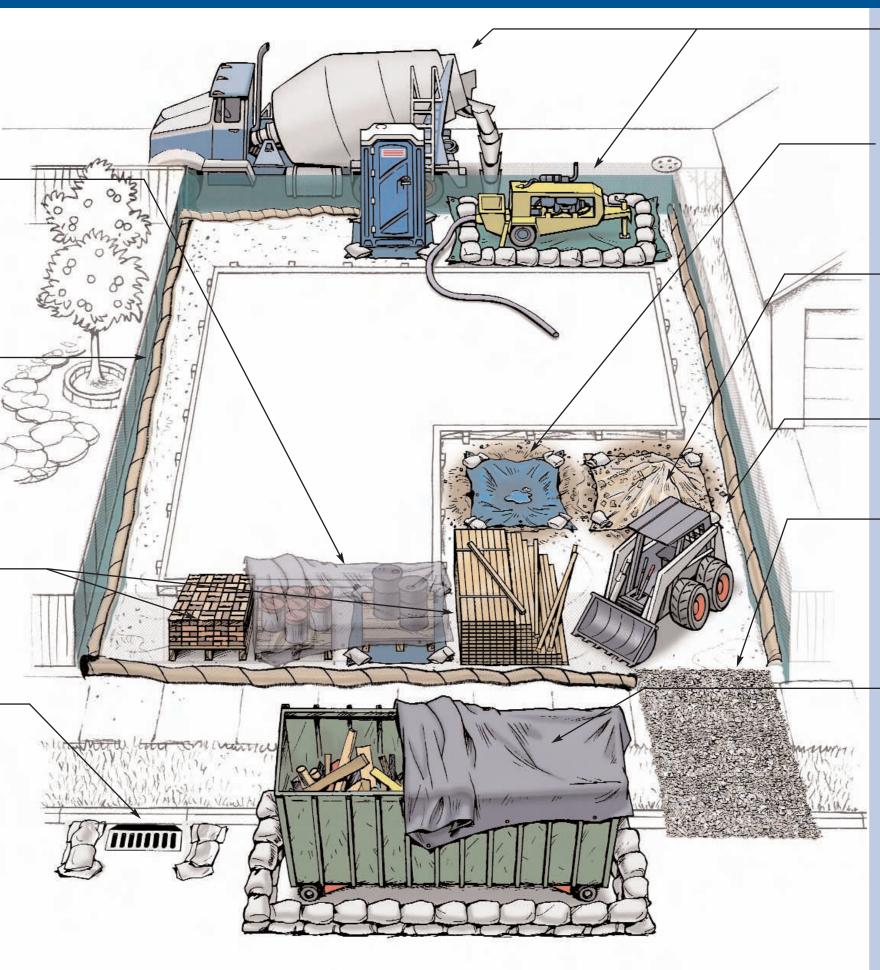
Gravel bags, silt fences, and fiber roles are acceptable perimeter controls, and shall be used to surround the entire site. Upstream perimeter controls prevent water from running into your site and downstream controls prevent sediment from leaving your site. Avoid running over perimeter controls with vehicles or heavy equipment, as they can damage the materials. Replace any damaged perimeter controls immediately. Keep extra absorbent materials and/or a wet/dry vacuum on site to quickly pick up unintended spills. Sites must also be checked and maintained daily.

Building Materials / Staging areas

Construction materials must be stored onsite at all times.
The only exception is if you have a right-way-permit.
Building materials should always be covered when not in use to prevent runoff caused by wind or rain. To apply for a right-of-way permit, contact the Bureau of Streets Use and Mapping at (415) 554-5810.

Storm Drains and Catch Basins

Storm drains must be protected at all times with perimeter controls, such as fiber rolls or gravel bags.



Concrete Trucks / Pumpers

Any concrete pumpers parked in public streets or alleys must be surrounded by perimeter controls, such as berms, gravel bags or fiber rolls. Tarps also must be placed beneath concrete pumpers at all times. Residual materials must be cleaned up as well.

Washout Area

The disposal of "wet" construction materials should be handled in the washout area. This includes paint, stucco, and concrete. Use a gravel bag or fiber roll and tarp to collect evaporation and prevent run-off in nearby areas. The washout area must be checked and maintained daily to ensure compliance.

Dirt and Grading

Mounds of dirt or gravel should be stored on site and covered each day with a tarp. When in use, all exposed dirt piles should be sprayed with water to prevent excessive dust. Tarps must be available and onsite to cover 125% of exposed areas during the rainy season (October-April).

Earthmoving Equipment

All earthmoving equipment should be stored onsite. Maintenance and repair should never be conducted on the site. All tracks and trails left by equipment leading to and from the site should be cleaned up immediately.

Construction site stone or rock access drives

Stone or rock access drives at any construction site should be made of 3-4 inch fractured stone aggregate with a geo-textile liner below the grade of the road. This is to be used by all vehicles to limit tracks of mud onto the streets.

Dewatering Activities

A batch discharge permit is required before releasing any construction site wastewater. Call 415-695-7310 for more information.

Dumpsters

Keep dumpsters covered. Areas around dumpsters should be swept daily.



Water Pollution Prevention Program

San Francisco Public Utilities Commission City and County of San Francisco 3801 3rd Street, Suite 600 San Francisco CA, 94124 (415) 695-7310

siterunoff@sfwater.org http://pollutionprevention.sfwater.org

Original artwork and concepts developed by the City of Coronado, CA revised by SFPUC Graphics staff personnel.

Exhibit L



TRANSBAY TRANSIT CENTER

Hazardous Materials Management Plan Revision 1

March 11, 2011

WEBCOR/OBAYASHI JOINT VENTURE SAN FRANCISCO, CA

TABLE OF CONTENTS

Environmental REPORTS	4
Phase I Environmental Site Assessment	4
Site Investigations	5
Soil Results	
Groundwater Results	6
Subsurface Conditions	7
DISCUSSION	8
RECOMMENDATIONS FOR MITIGATIVE ACTIONS	8
Health and Safety Issues	
Soil Management	
Soil Segregation and Disposal	11
Soil Disposition	11
Soil Sampling	
Timber Pile Removal and Disposal	
Underground Storage Tank Removal and Disposal	
Coal Gasification Residual Material	
Groundwater Management	
Dust Control	
Contingency Procedures	14

REFERENCES

Hazardous Materials Management Plan TRANSBAY TRANSIT CENTER San Francisco, California

Webcor/Obayashi Joint Venture will be responsible for mandating that Hazardous Materials Procedures documents shall be prepared by Trade Subcontractors and also for observing the Trans Bay Transit Center site on a regular basis in keeping with the standard of care for a General Contractor. Webcor/Obayashi Joint Venture will also coordinate the day to day oversight of the Project as a whole, compliance with their contract obligations, the tracking of Trade Subcontractor costs, directing Trade Subcontractors to maintain the Project site in accordance with all applicable regulations, and for discussions with the City regarding compliance concerns. Contracts with Trade Subcontractors and Sub tier Subcontractors shall include a requirement to comply with the provisions of this Plan and to maintain compliance with all applicable City Ordinances and Codes. The Trade Subcontractors, Sub tier Subcontractors and their Project Superintendents for this project are hereby authorized to uphold, certify, and maintain their own Hazardous Materials Procedures Plans and to distribute it to all field personnel responsible for monitoring the site and maintaining compliance with Federal State and local regulations. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this Hazardous Materials Procedures developed for Trade Subcontractor activities and any alterations thereof made at the time and in the manner herein specified, and in all respects according to its intent and meaning, and shall indemnify and hold harmless Webcor Builders-Obayashi, its officers and agents, if failure to conform results in legal action or any other action. Duties of the Trade Subcontractors include but are not limited to:

- Maintaining full compliance with their Hazardous Materials Procedures plan and all City Codes and Ordinances.
- To this effect, the Trade Subcontractors shall have authority to mobilize their own crews for: monitoring and maintenance.
- Obtaining dewatering and other applicable permits necessary for the satisfactory completion of their contract.
- Stopping any construction activity that is in violation of municipal ordinances or codes or that is inconsistent with the provisions of the Trade Subcontractors Hazardous Materials Procedures plan.

The Transbay existing Terminal Building has been demolished and replaced with a multimodal Transit Center that includes an underground rail station. The depth of the excavation will be approximately 65 feet. A soil-cement shoring wall extending approximately 120 feet below ground surface (bgs) will form the perimeter of the Transit Center. A concrete buttress will be placed under the Transit Center adjacent to 301 Mission Street extending down to bedrock, approximately 240 feet.

This HMMP includes the requirement to mitigate potential health and safety (H&S) risks to the environment, workers, and site-user associated with the presence of certain constituents in the soil at the Site.

ENVIRONMENTAL REPORTS

Webcor /Obayashi Joint Venture have reviewed environmental reports prepared for the site. The following is a summary of the previous reports:

Phase I Environmental Site Assessment

The eastern portion of the Site is located in an area historically known as the Tar Flat which was a former industrial area developed during the Gold Rush Era of the 1850's. The Site has been occupied by numerous buildings involved in metal work facilities, foundries, and a coal yard. Also, the San Francisco Gas Light Company was located on the south central and south eastern edge Site. Coal tar waste is believed to have been discharged into the surrounding tidelands which include the eastern portion of the Site. The Transbay Terminal Building was constructed between the years of 1936 ad 1938 and was used as a passenger rail station. In 1958, the train tracks were removed and/or paved over and the Site has been used by buses since. In the 1950's, elevated concrete roadways were built on the Site as part of the Transbay Terminal and the Embarcadero Freeway. The Embarcadero Freeway was damaged during the 1989 Loma Prieta earthquake and was subsequently demolished. Since the 1990's, the Site has remained largely unchanged.

Significant findings included:

 The subsurface fill material at the Site may contain elevated concentrations of heavy metals and other residual petroleum hydrocarbons. These concentrations are likely associated with the presence of 1906 earthquake fill material located below the ground surface. Special soil handling and/or sampling will likely be required during any construction activities.

- Due to the proximity of the former San Francisco Gas and Light Plant (bounded by First,
 Fremont, Howard, and Natoma Streets) and the presence of manufactured gas byproduct waste found on nearby properties, hazardous materials may exist in the
 subsurface beneath the Site. Special soil handling and/or sampling will likely be required
 during any construction activity.
- The soil and groundwater near the West section of the Transbay Terminal Building may contain petroleum hydrocarbons and VOCs associated with the former USTs release.
 Special soil and groundwater handling and/or sampling will likely be required during any construction activities.

Site Investigations

Limited soil and groundwater sampling has been performed beneath the ramps and near the Transbay Terminal building in 1999 and 2008 by Treadwell & Rollo. Also, they performed an Environmental Site Characterization (ESC) in 2009 at the Transbay Terminal which included collecting soil samples of the fill material and underlying sand from 23 exploratory borings, chemical testing of selected samples, and evaluating the results. Treadwell & Rollo collected groundwater grab samples from four of the exploratory borings for chemical analysis. The objective of the ESC was to assess the presence of petroleum hydrocarbon and metal contamination in the soil and groundwater beneath the Site that will be removed and disposed during the proposed construction activities. Concentrations of chemical compounds and metals detected in the soil and groundwater samples were compared to state and federal criteria for hazardous waste and disposal options.

The results of our environmental site characterization and other available subsurface information in the vicinity indicate the Site is generally underlain by approximately 5 to 16 feet of fill material, composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. The presence of fill material underlying the Site is likely associated with the 1906 earthquake and fire. A sand layer consisting of medium dense to very dense sand with variable amounts of silt approximately 15 to 18 feet thick underlies the fill material. Bay Mud is present beneath the sand layer.

Soil Results

TPHg was detected above the method reporting limit (0.1 mg/kg) in 3 of the 88 samples analyzed at concentrations ranging from 0.29 mg/kg to 26 mg/kg. TPHd was detected above the method reporting limit (2 mg/kg) in 9 of the 87 samples analyzed at concentrations ranging from 2.01 mg/kg to 54.8 mg/kg. TPHmo was detected above the method reporting limit (4 mg/kg) in 49 of the 88 samples

analyzed at concentrations ranging from 4.09 mg/kg to 137 mg/kg. Methylene chloride was detected in 3 of the 14 samples analyzed at concentrations ranging from 0.056 mg/kg to 0.24 mg/kg. No other VOCs were detected at or above methods reporting limits.

Total cyanide was not detected above the method reporting limit (1 mg/kg) in any of the 5 samples analyzed. No SVOCs, Pesticides, PCBs, Sulfide, or Cyanide were detected at or above method reporting limits in the samples analyzed. The pH measured in five samples ranged from 6.70 standard units (S.U.) to 8.66 S.U.

Total lead was detected in each of the samples analyzed at concentrations ranging from 1.2 mg/kg to 1,000 mg/kg (Table 2). Total lead was detected at concentrations at or above 50 mg/kg but below 1,000 mg/kg in 33 soil samples. Each of these soil samples was subsequently run for STLC and TCLP lead to determine soluble lead levels. One soil sample (TR-21-5) matched the State of California hazardous waste criteria of 1,000 mg/kg for total lead and subsequently run for TCLP lead to determine if this soil represents a federal RCRA hazardous waste. The TCLP result was 0.83 milligrams per liter (mg/L) so less than the federal RCRA hazardous waste criteria of 5 mg/L.

STLC lead was detected at or above the method reporting limits in 33 of the 34 samples analyzed at concentrations ranging from 0.13 mg/L to 52.1 mg/L. A total of 19 soil samples exceeded the State of California hazardous waste criteria of 5 mg/L. TCLP lead was detected at or above the method reporting limits in 22 of the 36 samples analyzed at concentrations ranging from 0.13 milligrams per liter (mg/L) to 14.5 mg/L. A total of one soil sample (TR-21-5) exceeded the Federal hazardous waste criteria of 5 mg/L.

The remaining metal concentrations were within normal¹ background ranges found in the western United States with the exception of zinc in sample TR-2-1.5 which was detected at a concentration of 5,600 mg/kg.

Groundwater Results

No oil and grease, TRPH, or SVOCs were detected above method reporting limits in any of the four samples. TSS was detected in all the samples with concentrations ranging from 110 mg/L to 160,000 mg/L. COD was detected in TR-19-GW, TR-20-GW, and TR-24-GW with concentrations of 24 mg/L, 20

[&]quot;U.S.G.S. Professional Paper 1270, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States," 1984.

mg/L, and 64 mg/L, respectively. Phenolics were detected in TR-24-GW at a concentration of 0.074 mg/L. TR-19-GW, TR-20-GW, and TR-24-GW were tested for pH with concentrations of 7.41 S.U., 7.07 S.U., and 7.45 S.U., respectively.

Trichloroethylene was detected in TR-8-GW at a concentration of 1.58 mg/L. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, isopropyl benzene, n-propybenzene, styrene, toluene, and total xylenes were detected in TR-19-GW with concentrations of 0.0223 mg/L, 0.00568 mg/L, 0.0251 mg/L, 0.011 mg/L, 0.00561 mg/L, 0.00138 mg/L, 0.00143 mg/L, 0.0171 mg/L, and 0.0591 mg/L, respectively. Methyl tert-butyl ether (MTBE) was detected in TR-20-GW at a concentration of 0.00078 mg/L. Naphthalene was detected in TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.417 mg/L, 0.00371 mg/L, and 0.0548 mg/L, respectively. No other VOCs were detected in any of the samples.

Antimony was detected in TR-20-GW at a concentration of 0.012 mg/L. Arsenic was detected in TR-24-GW at a concentration of 0.024 mg/L. Barium was detected in TR-8-GW, TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.066 mg/L, 0.052 mg/L, 0.085 mg/L, and 0.022 mg/L, respectively. Chromium was detected in TR-8-GW and TR-20-GW at concentrations of 0.032 mg/L and 0.008 mg/L, respectively. Cobalt was detected in TR-8-GW and TR-20-GW at concentrations of 0.011 mg/L and 0.006 mg/L, respectively. Molybdenum was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 0.01 mg/L, 0.024 mg/L, and 0.009 mg/L, respectively. Nickel was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 0.052 mg/L, and 0.013 mg/L, respectively. Vanadium was detected in TR-8-GW, TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.032 mg/L, 0.012 mg/L, 0.012 mg/L, and 0.021 mg/L, respectively. Zinc was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 1.1 mg/L, 0.013 mg/L, and 0.011 mg/L, respectively. No other metals were detected in any of the samples.

SUBSURFACE CONDITIONS

The results of previous site investigations and other available subsurface information in the vicinity indicate the Site is generally underlain by approximately 5 to 16 feet of fill material, composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. The presence of fill material underlying the Site is likely associated with the 1906 earthquake and fire. A sand layer consisting of medium dense to very dense sand with variable amounts of silt approximately 15 to 18 feet thick underlies the fill material. Bay Mud is present beneath the sand layer.

Groundwater was encountered at the time of the investigation at depths ranging from 13 to 20 feet bgs. Groundwater levels may fluctuate depending on the season. The groundwater flow direction is likely to the northeast towards San Francisco Bay.

DISCUSSION

Based on the analytical results from the Site subsurface investigation and previous analytical results, some of the fill material contains elevated total and soluble lead levels at concentrations exceeding Federal and State of California hazardous waste criteria. The remaining fill material will most likely be accepted at a regulated Class II and/or Class III landfill. Based on previous environmental investigations at the Site and vicinity, the sand underlying the fill would likely be disposed of as unrestricted waste.

The area of fill material containing soluble lead concentrations exceeding the Federal hazardous waste criteria are near boring TR-21 at a depth of 5 feet bgs. The areas of fill material containing total and soluble lead concentrations exceeding the State of California waste criteria are located near borings TR-1 at depths of 1.5 and 5 feet bgs, TR-2 at depths of 1.5, 3 and 5 feet bgs, TR-4 at depths of 3 and 5 feet bgs, TR-8 at depths of 1.5 and 3 feet bgs, TR-14 at a depth of 3 feet bgs, TR-15 at a depth of 3 feet bgs, TR-16 at a depth of 5 feet bgs and 10 bgs, TR-17 at depths of 1.5, 3 and 5 feet bgs, TR-19 at a depth of 7.5 feet bgs, TR-20 at a depth of 7.5 feet bgs, and TR-21 at a depth of 3 feet bgs. The remaining fill material will be disposed as Class II non-hazardous waste.

Groundwater is encountered at depths ranging from approximately 13 to 20 feet bgs across the Site. The proposed construction activities most likely will encounter groundwater in quantities that will require its removal from the subsurface. Prior to discharge into the sanitary sewer system, the dewatering contractor will obtain a batch groundwater discharge permit from the San Francisco Public Utilities Commission (SFPUC).

Because hazardous materials were detected at the Site, a SMP and a HASP will be required prior to construction. The Subcontractor HASP will outline proper soil handling procedures and H&S requirements to minimize worker and public exposure to hazardous materials during construction.

RECOMMENDATIONS FOR MITIGATIVE ACTIONS

The results of previous environmental investigations at and near the Site indicate the fill material beneath the Site contains elevated concentrations of heavy metals and petroleum hydrocarbons. The presence of these compounds poses soil management and potential H&S issues to be addressed as part of the Site development activities. The soil management objectives for the Site are to minimize exposure to construction workers at the Site, nearby residents and/or pedestrians, and future users of the Site to constituents in the soil.

Health and Safety Issues

There may be a potential H&S risks associated with the heavy metals and petroleum hydrocarbons detected at the Site. There also may be a potential for this soil to affect construction workers at the Site, nearby residents and/or pedestrians, and future users of the Site. The routes of potential exposure to the petroleum hydrocarbons and metals could be through three pathways: 1) dermal (skin) contact with the soil, 2) inhalation of dusts, and 3) ingestion of the soil.

The most likely potential for human exposure to the petroleum hydrocarbons and metals in the soil will be during soil excavation operations. Because on-site materials contain concentrations of petroleum hydrocarbons and lead in excess of the Proposition 65 guidelines, there is a requirement that appropriate health and safety procedures, as well as warning requirements, be implemented during construction. The trade sub contractor will be responsible for establishing and maintaining proper H&S procedures to minimize worker and public exposure to Site contaminants during construction. Webcor/Obayashi Joint Venture will oversee this process and require the development and implementation of a comprehensive HASP, which should be prepared by a certified industrial hygienist that represents each subcontractor or its sub tier contractor.

The H&S training requirements, i.e. trained in accordance with Section 1910.120 of 29 Code of Federal Regulations (HazWoper training), specific personal hygiene, and monitoring equipment that will be used during construction to protect and verify the H&S of the construction workers and the general public from exposure to constituents in the soil. Air monitoring to evaluate the amount of airborne particles during excavation will be required by the tub trade contractors. All reports will be kept in a central location managed by Webcor/Obayashi Joint Venture.

A representative of Webcor/Obayashi Joint Venture and the Site health and safety officer (HASO) representing the trade subcontractor will be on site at all times during excavation activities to ensure that all health and safety measures are maintained. The Webcor/Obayashi Joint Venture representative or HASO will have authority to direct and stop (if necessary) all construction activities in order to ensure compliance with the HASP.

The purpose of the HASP is to provide field personnel with an understanding of the potential chemical and physical hazards, protection of any off-site receptors, procedures for entering the project Site, H&S procedures, and emergency response to hazards should they occur. All project personnel shall read and adhere to the procedures established in this HASP. A copy of all plans will be kept on site during field activities and will be reviewed and updated as necessary.

The general public will be protected through the following measures maintained by trade subcontractors and monitored by Webcor/Obayashi Joint Venture:

- the Site will be fenced;
- exposed soil at the construction Site will be watered as necessary to prevent visible dust from migrating off-site;
- soil stockpiles will be covered;
- water will be misted or sprayed during the loading of soil onto trucks for off haul;
- trucks transporting contaminated soil will be covered with a tarpaulin or other cover;
- the wheels of the trucks exiting the Site will be cleaned prior to entering public streets;
- public streets will be swept daily if soil is visible; and
- Excavation and loading activities will be suspended if winds exceed 20 miles per hour.

Soil Management

The proposed construction activities will disturb soil during the excavation activities including: soil handling during archeological investigations, shoring wall installation, construction of a buttress for the adjoining 301 Mission Street property, timber pile removal and disposal, utility relocation and the mass excavation for the new Transbay Transit Center. During all excavation activities, dust control measures will be implemented to reduce potential exposure. These measures shall include moisture-conditioning the soil using dust suppressants and covering the exposed soil and stockpiles with weighed down plastic sheeting to prevent exposure of the soil.

Since all the contaminated fill material will be excavated and disposed of off-site, there will be no risk of direct contact with the underlying fill material by future Site users.

The Site's HASP (prepared by the trade sub contractor) will contain additional dust monitoring, action levels, dust control measures, and work stoppage provisions that will be followed during construction activities.

Soil Segregation and Disposal

Before any excavation activities begin at the Site, a TJPA representative shall be provided documentation from the excavation contractor that the accepting landfill facility for the soil from Transbay Terminal project has been provided with and has reviewed all analytical data collected from the Site. TJPA shall approve all off-site disposal facilities and soil transportation contractors, including, without limitation, available insurable coverage, and prior to the shipment of any soil or other waste materials. The TJPA representative will provide testing and schedule the intervals that testing shall occur.

The results of previous soil analytical testing indicate that some of the soil located at the Site will be disposed off-site at a Class I landfill, however additional chemical testing of the soil may be required by the landfill prior to disposal. The excavation contractor shall be responsible for tracking the disposition of soil removed from the Site. Any excavated soil characterized as a hazardous waste shall be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Soil not characterized as a hazardous waste shall be tracked using non-hazardous bills of ladings. All documentation will be provided to TJPA during the excavation activities.

If soil stockpiling of suspected contaminated soil is to be performed, the excavation contractor shall establish appropriate soil stockpile locations on the Site to properly segregate, cover, control dust, profile, and manage the excavated soil. Stockpiled soils are to be placed on top of one layer of 10-mil polyethylene sheeting (or equivalent), such as Visqueen. When stockpiled soil is not actively being handled, top sheeting will be adequately secured so that all surface areas are covered.

Soil Disposition

The Trade Sub contractor will establish appropriate off-site soil disposal locations and direct truck loading scheduling and/or soil stockpile locations on the Site to properly segregate, cover, moisture control, and profile the excavated soil. Soil profiling criteria will ultimately depend on the acceptance criteria of the landfills receiving the soil. These procedures will be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. It is not anticipated that soil will be reused at the Site for construction-related activities.

The Webcor Obayashi JV will, on behalf of TJPA, will be responsible for tracking final soil dispositions and turn that information to the TJPA representative. Any excavated soil considered hazardous waste will be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Soil not considered hazardous waste will be tracked using non-hazardous bills of lading. These two systems will be used to comply with appropriate state and local requirements.

The contractor will arrange for transportation of all wastes off-site. Hazardous and non-hazardous waste will be transported to the appropriate disposal facility using a permitted, licensed, and insured transportation company. Transporters of hazardous waste must meet the requirements of 40 CFR 263 and 22 CCR 66263. All trucks transporting bulk hazardous waste will be properly lined and covered with compatible materials. Trucks will be decontaminated prior to any use other than hauling contaminated materials unless the contaminated material was already double-contained. The contractor will be responsible for preparing and submitting traffic control plans for trucks entering and leaving the Site. A decontamination pad location plan and decontamination procedures will be prepared. A route plan will also be prepared showing the expected route each truck will use to reach each landfill.

For soil that is to be exported off-site that is characterized as a hazardous waste, an appropriate USEPA Generator Identification Number will be recorded on the hazardous waste manifests used to document transport of hazardous waste off-site. The hazardous waste transporter, disposal facility, and U.S. Department of Transportation (DOT) waste description required for each manifest will be determined on a case-by-case basis. A description of the number of containers being shipped, the type of container, and the total quantity of waste being shipped will also be included on each manifest.

Webcor/Obayashi Joint Venture representative will be responsible for overseeing the sub trade provides accurate completion of the hazardous waste manifests and nonhazardous bills of lading. Records of all wastes shipped off-site will be maintained by TJPA and will be made available for inspection on request. The final destination of wastes transported off-site will be documented in the Site Closure Report that will be prepared by others.

Soil Sampling

If needed, chemical testing of the stockpiled soil will be performed to profile the soil for disposal. Soil profiling criteria depends on the proposed landfill location or off-site receiving facility. These procedures shall be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. Typical soil profiling requirements are one four-point composite sample per 500 to 750 cubic yards to be disposed.

If soil samples are required for analysis, the samples shall be collected by the TJPA representative and tracked.

Timber Pile Removal and Disposal

Part of the foundation system for the Transbay Terminal building includes timber piles beneath the basement slab. During the excavation activities these timber piles will be removed and disposed of. The timber piles will be extracted from the subsurface and as much as possible removal of all the soil which is attached to the timber pile will need to be performed. The extracted timber piles will be segregated, tested by the TJPA representative and transported. If disposed of as a Treated Wood at a Class II non-hazardous waste with copies of the Bill of Ladings will be submitted to TJPA representative.

Underground Storage Tank Removal and Disposal

If a underground storage tank (UST) and/or and associated product lines are found, arrange for a licensed tank removal contractor to properly remove and dispose of the UST. Proper permits and notifications should be in place prior to removing the UST. If soil staining is observed, place the affected soil into a stockpile onto plastic sheets and cover with plastic sheets. The Environmental Consultant will complete soil sampling and analysis tasks for UST closure in accordance with San Francisco Fire Department (SFFD) and SFDPH.

Coal Gasification Residual Material

The former San Francisco Gas Light Company was located on the south central and south eastern edge of the Site. Coal tar waste is believed to have been discharged into the surrounding tidelands which include the eastern portion of the Site. Excavation in this area of the Site will most likely encounter residual coal tar waste. Some of the coal gasification residual material encountered may be former piping, coal tar, phenols, heavy metals, and polynuclear aromatic hydrocarbons. If any coal gasification residual material is encountered during the excavation, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. The TJPA representative will collect soil samples and analyzed the material to determine proper disposal of the material.

Groundwater Management

Groundwater is encountered at depths ranging from approximately 13 to 20 feet bgs across the Site. The proposed construction activities most likely will encounter groundwater in quantities that will require its removal from the subsurface. Prior to discharge into the sanitary sewer system, the dewatering Trade Subcontractors will obtain a batch groundwater discharge permit from the San Francisco Public Utilities

Commission (SFPUC). Based on analytical results of the groundwater samples analyzed during previous Site investigations, approval of the groundwater discharge from the dewatering system would be granted by SFPUC.

Dust Control

Prior to initiating construction activities, a dust control plan (prepared by Trade Subcontractor and specific to this project) will be implemented to reduce potential exposure during excavation and loading operations. This document will contain measures to protect construction workers and the public including: dust monitoring, action levels, dust control measures, and work stoppage provisions that will be followed during construction activities.

Dust control will be accomplished through implementation of engineering controls, including light water spraying or misting of stockpiled soil, truck loading areas and work areas. Misting or spraying will be performed to sufficiently reduce fugitive dust emissions, but limited to prevent water runoff. Efforts will also be made to minimize the soil drop height from an excavator's bucket onto soil piles or into transport trucks. The site-specific dust control plan will as needed, include some or all of the following procedures: site fencing; wetting soil; analysis of wind direction; dust monitors at the work zone and at the Site perimeter and appropriate record keeping, visible inspection; establishing a hotline for community response; limiting excavation area; soil storage regulations (e.g. covering stockpiles); windbreaks; paving; truck loading requirements (e.g. covering vehicles or excavator bucket drop heights); Site vehicle speed limits; wheel washing; street sweeping; termination of excavation if winds exceed 20 mph; and/or addition of soil stabilizers; or other responses as needed.

Contingency Procedures

Hazardous materials including; sumps and/or vaults, asbestos piping, former monitoring wells, and soil with petroleum hydrocarbon odors and/or stains may be encountered during excavation activities. If unanticipated hazardous materials are encountered, the following procedures will be maintained by trade subcontractors and monitored by Webcor/Obayashi Joint Venture:

- stop work in the area where the suspect material was encountered and cover it with plastic sheets;
- notify the Webcor/Obayashi Joint Venture representative, the TJPA Environmental Consultant for Site a inspection and appropriate action in the suspect area; and
- review the existing H&S plan and make revisions, if necessary; and

 Have appropriately trained personnel on Site to work with the affected materials, once directed by Webcor/Obayashi Joint Venture.

If a sump and/or vaults are encountered during excavation activities, contact the TJPA Environmental Consultant for inspection and appropriate action. If no liquid, obvious staining or odors are observed, sump and/or vaults will likely be destroyed and disposed of. If liquid is present within the sump and/or vault and/or obvious staining and odors are observed, the TJPA, Environmental Consultant will collect samples for analyses to determine how to properly disposal of the material.

If stained soil or odors are observed, plastic sheeting will be placed over the affected area and the TJPA Environmental Consultant will be contacted for inspection and appropriate action. If the material is to be excavated, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. Soil samples will be collected and analyzed to determine proper disposal of the material.

REFERENCES

Site Mitigation Plan Transbay Transit Center: Treadwell & Rollo, Inc. dated March 2010.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
BALFO900-0001	BSE Natoma Stree	t Trestle Access		Closed	04/18/2011	05/02/2011	04/20/2011	Potentially	y 🗌
From: Balfour Beatt	y Infrastructure, Inc.	Ural Yal	To: Webcor Construction LP	Masashi Kojima	Answered By	:Webcor Const	ruction LP Masa	ashi Kojima	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Project E	Bidding Manual (Exhibi	t A)					or Access Trestle		
manual (Exhibit A), to provide access for gridline 11.5 at the gridline 10 at the constaking out this poin the 530 Howard St. point. See the attact approximate location trestle access. Plea	Its outlined in the project BBII has developed or or Natoma street extendenter of the excavation enterline of the shoring and on the shoring wall, it building is in conflict when the sketch and photostates and significant of the Natomanged to a more suitable.	ir trestle design ding from n (grid line E) to wall. After t is apparent that with the access indicating the ation to the a St. access			adjustments of site conditions For this partic	can be acceptab s. cular item, it is ac ss of the Access	schematic and rile based on the a cceptable to shift is Trestle to west	actual the	
BALFO900-0001.1	BSE - Natoma Stre	et Trestle Access		Closed	05/05/2011	05/15/2011	05/09/2011	Potentially	у 🗌
From: Balfour Beatty	y Infrastructure, Inc.	Ural Yal	To: Webcor/Obayashi Joint Ver	ntu Masashi Kojima	Answered By	:Webcor/Obaya	ashi Joint V Masa	ashi Kojima	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Reference Project B	Bidding Manual (Exhibi	t A)				restle design sh htractor's scope.	ould be included	in BSE	
response to BBI RF relocate the access Please provide an e offshoot that will sa	at our meeting on 4/26 FI 076 indicated that BE is trestle but was not special location for the N tisfy the access require is. BBII requests a meeting and the second second in the second seco	BII should ecific enough. atoma St. ements of future			Exhibit A, A3 adjustments of site conditions	and SL-001 are can be acceptab s. The "exact" lo	for Access Trestle schematic and m le based on the a locations should be contractor as the I	ninor actual e	
						refer to the Gene on in Exhibit A,	eral section regard Attachment 3.	ding to	
BALFO900-0002	BSE - Scaffolding	For Interim Screen Wall		Closed	03/21/2011	03/31/2011	03/22/2011	Potentiall	у
From: Balfour Beatt	y Infrastructure, Inc.	Ural Yal	To: Webcor Construction LP	Masashi Kojima	Answered By	:Webcor/Obaya	ashi Joint V _E Masa	ashi Kojima	
Co-Author:									
REQUEST: Reference attached	d photo		SUGGESTION:		ANSWER: The scaffoldir	Accept Sug	gestion:	to RFI	



Reference Specification Section 31 56 13

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 2 of 1053 11/05/2013

Date: Time:

Job:

The Trade Subcontractor is responsible for the necessary means and methods to install the CDSM

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Scaffolding is currently being erected for the interim screen wall within Zone 4. It appears that the scaffolding lies in the path of the CDSM wall and will conflict with our work (See attached photo). When is the scaffolding scheduled to be completely dismantled and removed from the area?			shall provide a installation in	a work plan for p	ed is unconfirmed. oile removal and C I specific activities on purposes.	DSM	
ALFO900-0003 BSE - Additional Project Control		Closed	04/19/2011	04/26/2011	04/25/2011	Potential	lv \square
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Webcor Construction LP				ruction LP Masa		ıy
Co-Author:	10. Webcor Construction LP	Masashi Kojima	Allsweled by	·wedcor Consi	ruction LP Wasa	sni kojina	
REQUEST: Reference Specification 01 10 50 and Drawing GT-0100 Drawing GT-0100 indicates four points established for control. Our surveyors, KCA Engineers, are concerned about maintaining consistent control between various contractors on the project with such extensive distance between the provided control points. It is suggested that additional control points with horizontal and vertical coordinates be provided at the following locations: - Howard St. at Fremont St. - Howard St. talfway between First and Second St. - Mission St. at Fremont St. - Mission St. at First St. - Mission Street at Shaw Alley. KCA RFI 001 has been attached for reference.	SUGGESTION:		Package cont BBII on 04/22 After review a Package, plea	ained in the cor /2011, Transmind and define the so ase identify miss	ts for TG05.1 Sunmpact disk, which ttal No. 2011.04.22 cope for TG05.1 Sing bench marks and TG05.1 Pack	sent to 2-0006. urvey	
ALFO900-0004 BSE - CDSM Pile Tolerance From: Balfour Beatty Infrastructure, Inc. Ural Yal Co-Author:	To: Webcor/Obayashi Joint Ver	Closed ntu Masashi Kojima	06/06/2011 Answered By	06/16/2011 /:Webcor/Obaya	06/13/2011 ashi Joint V∉Masa	Potentia l shi Kojima	ly
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Co-Author:

REQUEST:

Please reference attached sketch.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Accept Suggestion:

This question is not appropriate as RFI, but logistics

ANSWER:

3 of 1053 11/05/2013

Time:

10:53 AM 30100

				Date	 Date	 Date	Cost	
umber	Subject		Status	Created	Required	Answered	Cost Impact	Procee
meeting held	to the CDSM Shoring Wall DFOW QC in BBII's office on June 1, 2011, please find lowing RFI submitted by BBII's sub-contractor action:				within the tolera section 31 56 13	nces specified in 3.		
centerline of beams are externed for this nature work. It is als (1:150 CDSM excavation de	ce specifications for tolerance relative to wall for both the CDSM and steel soldier ktremely strict compared to what is common e of work, particularly given the depth of the so more strict than if the verticality tolerance //1:200 pile) is applied at a conservative epth of 60 feet. Can the tolerance be n 0" in/2" out (CDSM) & 0" in/3" out (piles) to in/4" out"?							
ALFO900-0005	BSE - Temporary Power For Construction		Closed	06/21/2011	07/01/2011	07/05/2011	Potential	lly 🗌
From: Balfour	Beatty Infrastructure, Inc. Ural Yal	To: Webcor/Obayashi Joint \	/entu Masashi Kojima	Answered B	y: Webcor Const	ruction LP Nhi Tr	an	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Electric on 5/ Temporary P construction.	ower Package TG05.2 was awarded to Bass (12/2011. Drawing SL-003 shows locations for lower Skids that will be used to facilitate Please provide dates of when the following lower Skids are going to be made available to			"Temporary p beginning of For the latest weekly updat Temporary P	the dewatering." i information, ple se schedule for th ower Skids. The	B., mentioning at be available at ase refer to the lat ase available dates next latest weekly d on 07/06/2011.	of	
Skid 1 by Nat Skid 2 by Mir Skid 3 by Firs Skid 4 by Fre Skid 5 by Bea	nna St. st St. emont St.							
ALFO900-0006	BSE - Discharge Point for Buttress Operation	on	Closed	06/23/2011	07/05/2011	07/05/2011	Potential	lly 🗀
From: Balfour	Beatty Infrastructure, Inc. Ural Yal	To: Webcor/Obayashi Joint \	/entu Masashi Kojima	Answered B	y: Webcor Const	ruction LP Nhi Tr	an	

SUGGESTION:



existing property lines to the tie in locations for the existing

utilities and phase 2 utilities.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

4 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Buttress operation sketch. Please consistent of sewer	o discharge water genera in into the sewer manhole onfirm that this is acceptal manholes is approximate ary piping layout shown in nmatic.	s shown in the ble. Note that and will be per				ase submit as E in Zone 4 acco	Buttress Water Dis rdingly.	scharge	
ALFO900-0007	BSE - Archeologica	al Dig Site D-3 Information		Closed	10/13/2011	10/23/2011	10/13/2011	Potential	ly 🗌
From: Balfour Bea	atty Infrastructure, Inc.	Ural Yal	To: Webcor/Obayashi Joint Ve	entu Masashi Kojima	Answered By	:Webcor/Obaya	ashi Joint V∈Masa	shi Kojima	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Due to the recent 3, at the depth of that the excavation	t Archeological Investigation of 125 feet, BBII request on, observation, and all the been completed.	on at dig site D- confirmation			3 was release Per Ural Yal B archaeologica	chaeological in d to BBII 10/5/2 BII would perfo I investigation d	ے۔ estigation dig apہر	the VO or	
Please Confirm.									
ALFO900-0008	BSE - PG&E Dimer	nsions at Tie-in Points - VC Ural Yal	DID To: Webcor/Obayashi Joint Ve	Closed	10/12/2011 Answered By	10/12/2011	10/13/2011 Infrastructu Ural \	Potential	ly
Co-Author:	atty minastructure, mc.	Olai Tai	vebcoi/Obayashi Joint ve	entu ivrii Tran	Allswelled by	-balloul beatty	mirastructu Orai 1	rai	
			CHOCECTION		ANCWED.		🗆		
REQUEST: Reference CR T-	017 and attached drawing	JS	SUGGESTION:		ANSWER: Update by BB	Accept Sug	gestion:		
phases 2 utilities between the exis installation. Pleas indicating areas		s for the tie ins 2 2 utility sketch			Per PG&E me Installation) The location o	eting 10/13/201 f existing PG&E ints will be dete	1 (Phase II Utility tie in points / rmined in the field		
Please provide u	pdated drawings, with dim	ensions from							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

5 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Confirm MH/Va (see attached d	ult number for the tie north	west of A line							
(See attached d	inawing)								
BALFO900-0009	BSE - D.I. Installat	ion on First Street		Closed	10/27/2011	11/06/2011	10/31/2011	Potential	ly 🗌
From: Balfour Be	eatty Infrastructure, Inc.	Ural Yal	To: Webcor/Obayashi Joint	Ventu Nhi Tran	Answered By	:Webcor/Obaya	ashi Joint VeNhi	Γran	
Co-Author:									
REQUEST: Reference Shee	et U-3021 and D-2230		SUGGESTION:			Accept Sug #501 was delete lied on 2/28/2011	d per RFI #U-010	01,	
RUP drawing U	rawing shows a new Catch I-3021 -2230 to be installed on Fir				response isse	ica (iii 2/20/201			
Currently this C installed.	B does not exist. Please co	onfirm it will be							
BALFO900-0010	BSE - Conflicts be	tween revised trainbo	x columns and internal bracing	Closed	10/31/2011	11/10/2011	11/03/2011	Potential	ly 🗌
From: Balfour Be	eatty Infrastructure, Inc.	Ural Yal	To: Webcor/Obayashi Joint	Ventu Nhi Tran	Answered By	:Webcor/Obaya	ashi Joint V Masa	ashi Kojima	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spec	cification Section 31 55 00					superseded by	RFI T-251.1 and	the	
from Thornton T submittal had a DBI. The comm	dditional comments on the Tomasetti on 10/17/11, afte Iready been reviewed and a nents provided include revisizes that differ from our BS	r the 100% approved by sed column			answer is no	longer required.			
clearances pres columns. As tra please provide o	rawings highlight conflicts a sented by these revisions to ainbox drawings are not ava direction on where to locate solve these conflicts.	the trainbox iilable to BBII,							



BALFO900-0012.1

BSE - Natoma Street Trestle Access

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

6 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
BALFO900-0011	BSE - CR T-018 Gate Requirements		Closed	11/02/2011	11/12/2011	11/03/2011	Potentially	у
From: Balfour Beatty	y Infrastructure, Inc. Ural Yal	To: Webcor/Obayashi Joint Ventu Nhi	Tran	Answered By	:Webcor/Obaya	shi Joint V Masa	ashi Kojima	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference CR T-01	8					esponse for RFI	T-256	
be installed at the fi	BBII indicates that the gates need to re lane access of 540-580 Howard. ent access to the rear of the building atoma Street.			and the answe	er is no longer re	equirea.		
to be installed by BI If BBII is requested please provide a sp	gates specified in CR T-018 are due BII. to install the gates under CR T-018, ecification and detail for the gate in meet fire regulation and standards.							
3ALFO900-0012	BSE - Natoma Street Trestle Access - VOID		Closed	11/01/2011	11/11/2011	12/02/2011	Potentiall	у 🗌
From: Balfour Beatty	y Infrastructure, Inc. Ural Yal	To: Webcor/Obayashi Joint Ventu Nhi	Tran	Answered By	:Webcor/Obaya	shi Joint VeMasa	ashi Kojima	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	8, Specification Section 01 53 13, BBI 145 (attached), and attached sketch			Please conside RFI(s) 243 & 2		the response to	BBII's	
rear of 540 Howard response and include	drawings for access to the side and St. BBII issued letter 4225-000-0145 in ded a sketch highlighting a conflict sed building access and the Natoma St.			for the revised		eets SH-2202 & sation. The depic immediate.		
span from Grid 11.5	stle offshoot was originally specified to 5 at the center of the excavation to Grid cavation. The offshoot was moved (O) response to the conflict with 530							
proposed in CR T-0 to the Natoma offsh	building access arrangement as state of the							

Closed

12/06/2011

12/16/2011

12/06/2011

Potentially



Option B - Move the last pier West and extend the end

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 7 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Beatty Infrastructure, Inc.	Ural Yal	To: Webcor/Obayashi Joir	nt Ventu Masashi Kojima	Answered By	y: Webcor/Obaya	ashi Joint V∈Masa	shi Kojima	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	T-018, Specification Section 000-0145 (attached), and att						LFO900-0012: De rovide credit propo		
rear of 540 Horesponse and	uded drawings for access to ward St. BBII issued letter 4 included a sketch highlightir roposed building access and t.	225-000-0145 in ng a conflict							
span from Gric 10 at the edge	it. trestle offshoot was origin d 11.5 at the center of the ex of excavation. The offshoot er [W/O] response to the cor	cavation to Grid was moved							
proposed in Cl to the Natoma	ard St. building access arran R T-018 does not provide su offshoot (see attached sket on if the offshoot is to be rel	ifficient access ch). Please							
ALFO900-0013	BSE - Access Tres	tle at Gridline 3 - VOID		Closed	11/21/2011	12/01/2011	12/02/2011	Potential	lly
From: Balfour E	Beatty Infrastructure, Inc.	Ural Yal	To: Webcor/Obayashi Joir	nt Ventu Nhi Tran	Answered By	y:Webcor/Obaya	ashi Joint V Masa	shi Kojima	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI 13	#T-0251.1 and Specification	n Section 01 53			Please consid RFI(s) 243 &		the response to E	BBII's	
Tomasetti "pile RFI T-0251.1,	id conflicts with both the The exclusion zones" provided the first trestle pier near grid I Proposes two options:	in response to			for the revised		eets SH-2202 & S ration. The depicte e immediate.		
exclusion zone trestle deck tha	we the last pier East to clear es and adjacent bracing stru at ends approximately 15' E of this end span would be ind al reach.	ts, resulting in a ast of gridline 3.							



REQUEST:

According to Exhibit A - Rev H of the trade subcontractors

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

ANSWER:

Per Exhibit A - Rev H:

8 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

	30100 - Halisbay Halis	sit Center	Project	-		
lumber Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
span to clear the pile exclusion zones and adjacent bracing struts, resulting in a trestle deck that ends approximately 20' West of gridline 3.						
Please advise how BBII should proceed.						
BALFO900-0013.1 BSE - Access Trestle at Gridline	Revised W/O Response to BALFO900-0013 Closed	12/06/2011	12/16/2011	12/06/2011	Potentially	y 🗍
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Webcor/Obayashi Joint Ventu Masashi Kojima	Answered B	y:Webcor/Obay	ashi Joint V _E Mas	ashi Kojima	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference RFI #T-0251.1 and Specification Section 01 53 13		REVISED RE		LFO900-0013: C	option A	
In order to avoid conflicts with both the Thornton Tomasetti "pile exclusion zones" provided in response to RFI T-0251.1, the first trestle pier near gridline 3 must be relocated. BBII Proposes two options:						
Option A - Move the last pier East to clear the pile exclusion zones and adjacent bracing struts, resulting in a trestle deck that ends approximately 15' East of gridline 3. The capacity of this end span would be increased to allow for the additional reach.						
Option B - Move the last pier West and extend the end span to clear the pile exclusion zones and adjacent bracing struts, resulting in a trestle deck that ends approximately 20' West of gridline 3.						
Please advise how BBII should proceed.						
BALFO900-0014 BSE - Location of Security Came	ras Closed	01/16/2012	01/26/2012	01/16/2012	Potentially	
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Webcor Construction LP David Fields			truction LP Davi	•	' Ш
Co-Author:	Webeer Construction Li David Fields	7	J-11 CDCO1 CO113	i dodon Li Davi	u i 10103	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

11/05/2013

9 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

bid manual. "Temporary poles shall include conduit for security cameras, power at the pole tops for security cameras, and mounting hardware for security cameras." Please advise on quantity and the location of these temporary poles.

"Trade Subcontractor shall be responsible for installing and maintaining temporary lighting at the perimeter traffic/pedestrian barricades, at pedestrian walkways, and as required to provide code-minimum lighting at egress paths, as well as sufficient foot candle lighting levels to safety perform the work at all times, including within the excavation. At a minimum. Trade Subcontractor's lighting plan will include temporary poles at street level. In addition to supporting lighting, temporary poles shall include conduit for security cameras, power at the pole tops for security cameras, and mounting hardware for security cameras. Security cameras will be installed and maintained by others. Temporary lighting work item includes, but is not limited to, installing lighting poles, installing all hardware, switch boxes, breakers, conduits, pulling strings among temporary power skids /generators /lighting poles and maintenance required for temporary lighting works. Trade Subcontractor's lighting plan will be a submittal requirement for the project. Trade Subcontractor is responsible for maintaining the temporary lighting and related facilities for each zone until completion of Mud/Rat Slab construction. Those facilities for Temporary Bridges and Access Trestles shall be maintained by Trade Subcontractor until their removal. Temporary lighting for Staging Areas that may be provided by TJPA shall be maintained by Trade Subcontractor all the time."

BALFO900-0015 BSE - Beale St. Trestle Pile Conflict Follow-Up

Closed

02/18/2012

02/08/2012

Potentially

From: Balfour Beatty Infrastructure, Inc.

Shad Gardner

To: Turner Construction Compan Gary Krutsch

Answered By: Webcor Construction LP Marina Rosso

Co-Author:

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion: Can't find answer in Constructware.

The response to RFI T-264.1 requested BBII provide the loading that would placed onto the CDSM wall. This response leads us to believe that the option to leave

the pile in the current location was unacceptable. Please confirm that the pile must be moved and provide a

02/08/2012



BBII assumes this is related to future work not included in

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

10 of 1053 11/05/2013

Time: Job:

atop said columns were depicted on TG03 drawings,

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
detailed location of where the pile placement would be accepted. Upon receipt of this information BBII can accurately determine the load to placed on the Wall for Arup¿s review.							
ALFO900-0016 BSE- Stabilization of CDSM Wall		Closed	04/10/2012	04/20/2012	04/10/2012	Potentiall	у 🗌
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Webcor Construction LP	Kirk Nielsen	Answered By	:Webcor Const	ruction LP Kirk I	Nielsen	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII is requesting direction for a method to stabilize the unimproved soil conditions along the interior face of the CDSM wall. This request was generated after a field review of the wall conditions revealed a potential safety issue regarding workers working on the mass excavation, bracing and dewatering activities			RFI was not the a safety issue Further in add 31 00 00.3.8.L which indicate	ne correct formathe responsibilition to the +1" ., contrary to sees no individual	ng AAI indicated that to inquire with rity of the contractic cavity issue per section 3156 13.3.7 lump of unimproversasive amount	egard to or. ection .C ed soil	
The current condition of the CDSM wall includes unimproved soil conditions that have the potential to become detached from the wall and create a falling safety hazard to workers as the mass excavation and bracing reach lower depths. Please reference attached photo for visual details.			lumps of unim	proved soil throwaterproofing m	bughout the CDSN nanufacture to invi	Л. W/O	
Based on our records, the CDSM wall met all the specification requirements for uniformity and improved soil as per section 31 56 13 of the contract specifications.							
ALFO900-0017 BSE - Beale Street Bridge Pile Location	- Conflicts	Oleand	00/40/0040	00/00/0040	00/40/0040	Datantiall	\Box
ALFO900-0017 BSE - Beale Street Bridge Pile Location From: Balfour Beatty Infrastructure, Inc. Diarmuid Cregg	To: Webcor Construction LP	Closed David Fields	09/19/2012 Answered By	09/29/2012	09/19/2012 ruction LP David	Potentiall	у
Co-Author:	10. Wencoi Construction LP	Daviu Fielus	Allowered by	- VV EDCOL COUST	TUCTION LF DAVIC	a i leius	
REQUEST:	SUGGESTION:		ANGWED.	Assemt Com			
The response to submittals TG0300-206.1 and TG0300-261.1 states that BBII¿s Beale St Bridge fails to comply with specification section 01-53-13.1.3D with regard to coordination and constructability, but does not elaborate.	SUGGESTION.		in response to TG0300-261.1	BBII's submitta I. Columns wei	//O's multiple com al TG0300-206.1 are clearly depicted b, 1/S1-2027. Bea	and d on, to	



of the W/O lot to complete the bridge deck

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeonobayasiii Joint Ventare

Page: Date:

In response to inquiry relative to W/O lot south of

11 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
the BSE contract documents. BBII had previously coordinated pile locations, and cleared future concrete structures shown in drawings that were available to us, however please advise us what clashes you have detect or what specific clearances revisions are necessary for future work, so BBII can properly incorporate into our design.	ed		6000, and A/	S1-3201. Shoul	l to, 2/A1-2005, 3. d BBII have furthe BBII's revised subi	er	
ALFO900-0018 BSE - Beale Street Bridge Pile I	ocation Conflicts	Closed	09/24/2012	10/04/2012	09/24/2012	Potential	ly 🗌
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Webcor Construction LP	David Fields	Answered B	y :Webcor Const	ruction LP David	d Fields	
Co-Author:							
REQUEST: Based on the discussions at today's BSE meeting, BBII understands that the W/O's intention is to relocate the Beale Bridge from the location depicted in BBII's current submittal in order to accommodate work of future trade packages. Please provide detailed information regarding where to place the bridge, and what horizontal and vertic clearances are required. Time is of the essence for BBII to receive this additional previously unavailable information, so the re-design process can be started as soon as possible.	al		ANSWER: Refer to TCC	Accept Sug	gestion: ubmittal TG0300-	206.1.	
ALFO900-0019 BSE - Removal of Over Head Po	ower Lines In Lot N	Closed	10/08/2012	10/19/2012	10/09/2012	Potential	ly 🗌
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Webcor Construction LP	David Fields	Answered B	y :Webcor Const	ruction LP David	d Fields	
Co-Author:							
REQUEST: In order to construct the Beale Street Bridge per submitt TZ1030-015313A38, it must be pre constructed in Lot N. In order to do this the overhead power lines located on the east side of Lot N must be taken down throughout the bridge deck fabrication phase and during the final installation of the deck on Beale Street. The attached drawing illustrates the fabrication area in L N and the location of the overhead power lines through this area. BBII will also need to acquire a section	pt		Reviewed" or proposal is contractor to	n 10/3/12. BBI's urrently under re to the existing utile follow the provision.	gestion: 3 was returned "N Beale St. bridge laview by the TJPA lity facilities inquisions set forth in to existing utility fa	ayout as RFI ry: he	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

12 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	these items will be res deck fabrication comm				construct the Subcontractor result, all cost borne by BBII the logistics o	N/O's lot south of Beale St. Bridger is means and responsible to the second state of the second seco	of lot N in order to e is a Trade methods issue. As i this work would to O to respond relat a minimum a plan rould need to be	e	
					Drawing(s) sh pertinent infor other facilities - Expected du - Demonstrati	nould show reloce that ion relative to the infection of the infection of the infection that areas distribution upon the	nintain ADA compl ated K-Rails and of to W/O's Trailers a ringement into W/O sturbed will be res completion of Bea	other and O's Lot. tored	
ALFO900-0020	BSE - Rebracing S	upports above the L	ower Concourse Level	Closed	11/06/2012	11/16/2012	11/06/2012	Potential	lly
From: Balfour Beatty	Infrastructure, Inc.	Ural Yal	To: Webcor Construction LP	David Fields	Answered By	:Webcor Const	ruction LP David	Fields	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	//0 letter COM 00479, regarding rebracing of						tle piles to function gn-build internal b		

above concourse level, BBII requests the following clarification.

The letter states "internal bracing cannot be rebraced to a pin pile above the concourse level." Are trestle piles considered pin piles in this statement? Also, please clarify why rebracing above the concourse level cannot be supported to pin piles and/or trestle piles.

system. COM0479 was in response to concerns relative this means and methods decision and was authored to provide notification that trestle pile utilization would not be possible for re-bracing reactions at the lower concourse level given the coordination requirement for trestle removal prior to the final level of rebracing.

BBII may elect to utilize existing piles for rebracing reactions provided the re-shoring and removal sequence is developed and coordinated with Concrete



installation of chain link fence on temporary bridges in lieu of contract specified plywood. CR T-043A references blind

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

13 of 1053 11/05/2013

Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						tractor, Structul and other Trad	ral Steel Trade e Subcontractors		
3ALFO900-0021	BSE - Sump Pit Lo	ocation and Dimension		Closed	12/05/2012	12/15/2012	12/05/2012	Potential	ly
From: Balfour Beatty	/ Infrastructure, Inc.	Joe Chapman	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Zone 1 between GL necessary dimensio provide the dimension	the Sump Pit on the N 4 and GL 5, does not ons to properly excavat ons drawn in blue on I nsions of the bottom fo	have all e. Please Drawing GT-			superseded. via Field Orde included revis	Please refer to or r #00010R2 dat ed drawings dat	BI RFI #336 have current drawings, ed 9/26/2012 whi ted 8/30/2012. Re tited to S1-2022 a	issued ich efer to	
3ALFO900-0022	BBII RFI # 342: M	inna Street Manhole Se	ewer As-built Video	Closed	01/21/2013	01/31/2013	01/22/2013	Potential	ly 🗌
From: Balfour Beatty	/ Infrastructure, Inc.	Dean Wallahan	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Const	ruction LP Jacks	son Tukuafu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	a copy of the as-built Street sewer from SS				Box website:		eports from the fo	ŭ	
AL 50000 0000	DOT Obein Links		ala Otasat Tanananan Baidan	Olesed	00/40/0040	00/04/0040	00/40/0040	Datastial	
SALFO900-0023			eale Street Temporary Bridge	Closed	02/19/2013	03/01/2013	02/19/2013	Potential	іу
From: Balfour Beatty Co-Author:	/ inirastructure, inc.	Brandon Miller	To: Webcor Construction LP	Lynn Kowallis	Answered By	vvencor Const	ruction LP Lynn	nowallis	
			CHCCECTION:		ANCWED.	A 0			
REQUEST: Ref: CR T-043A			SUGGESTION:		ANSWER: Confirmed. Pe	Accept Sug er RFI T-293.2	gestion:		
Please refer to CRT	-043A Scope of Work	regarding							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

14 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSI	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

To: Turner Construction Compan Gary Krutsch

spots for "199 Fremont Street and 301 Mission Street onto Beale Street." Please see the attached sketch of Beale Street Temporary Bridge with location for chain link fence to be installed per CR T-043A.

Please confirm locations for chain link fence on Beale Street Temporary Bridge.

BALFO900-0024 BSE - Relocate Zone 3 Dewatering and Electrical Equipment

Lvnn Kowallis

Closed

03/09/2013

02/27/2013

02/27/2013

Data

Potentially

Answered By: Webcor Construction LP Kirk Nielsen

Co-Author:

REQUEST:

From: Webcor Construction LP

SUGGESTION:

BBII will be relocating equipment along the North perimeter wall in Zone 3 per W/0 and TCCO direction. Items to be relocated include but are not limited to dewatering header pipe, dewatering control boxes, site electrical, monitoring equipment, etc. Please see the attached photos and sketches and for approval to proceed with relocation of said equipment.

Please confirm the utility locations shown herein do not conflict with other trade subcontractors and can remain for the duration of the dewatering system.

ANSWER:

- Accept Suggestion: 1. The direction to evacuate the Muni Hump was
- provided by QBD #TG0300-0162. 2. WOJV recommends relocating the utilities
- consistent with BBII's RFI #352 SK(s) 1/2 & 2/2. 3. While WOJV will coordinate as necessary to avoid
- utility relocation(s) WOJV cannot confirm the utilities may remain the duration of the dewatering system, nor is WOJV obligated to:
- a. Specification section 31 23 19.1.3.C instructed bidders to "Locate system components to allow continuous dewatering operations without interfering with installation of permanent Work and existing public right-of-way, sidewalks, and adjacent buildings, structures, improvements and construction operations performed under this Contract or other contracts." b. Exhibit-A.Section IV.C.15 instructed bidders to "he
- design and the installation sequence shall be coordinated with Permanent Structure construction. Temporary Structures / Equipment by other Trade Subcontractors, Internal Bracings, Access Trestle. Temporary Bridges and other structures."

BBII was instructed as what to anticipate as it pertains to the permanent structure reference the BSE A-series drawings.

WOJV 2/26/13



(Origingally opened by Bret Dobel)

Webcor/Obayashi Joint Venture

15 of 1053 11/05/2013

Page: Date:

Job:

10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time:

30100

JOINT VENTURE			30100 - Trar	nsbay Trans	sit Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
BALFO900-0025	BSE - As-built Mi	nna Street Manhole Rii	m Elevations	Closed	03/04/2013	03/14/2013	03/05/2013	Potentia	lly 🗌
From: Balfour Beatty	Infrastructure, Inc.	Brandon Miller	To: Webcor Construction LP	Lynn Kowallis	Answered B	y: Webcor Const	ruction LP Lynr	n Kowallis	
Co-Author:									
REQUEST: Please provide BBII street sewer manhol 206, 207.			SUGGESTION:				gestion: gs for Minna Str 02, 203, 204, 20		
BALFO900-0026	Project Milestone	es and Substantial Com	npletion	Closed	08/08/2013	08/18/2013	08/08/2013	Potentia	lly
From: Balfour Beatty	Infrastructure, Inc.	Rodney Gordon	To: Webcor/Obayashi Joint Vo	entu Joanne Filipas	Answered B	y :Webcor/Obaya	ashi Joint VeJoar	nne Filipas	
Co-Author:									
REQUEST: Based on conversation please confirm that some prerequisite of project required to meet any	substantial completion to milestones and is	on is not a therefore not	SUGGESTION:		ANSWER: Refer to COM	Accept Sug //2209	gestion:		
P-0001	Unknown Condu	it Located in Geo Test	DMM Area	Closed	09/15/2009	09/29/2009	09/15/2009	Potentia	lly 🗌
From: Webcor Consti	ruction LP	Marina Rosso	To: Transbay PMPC	Jim Coughlin	Answered B	y: Transbay PMF	PC Alfre	ed Lau	
Co-Author:									
REQUEST: What is the source of Geo test Area and an operation for the DMI discovered a bank of the archeological treum were told that all obsuremoved up to a depabout 2 feet down. On the control of th	re they live? During of M drilling on Tuesda what appears to be nch. (See Attached tructions at the test th of 15 feet. These can you verify that the state of the truction of the there any mention of the week when the these de direction if these	the pre trenching by 9-15-09, Raito conduits inside Pictures) We locations were conduits are at nese conduits are n of them in the a copy of the	SUGGESTION:		ANSWER: subject condu proceed with		gestion: ed lines, cut and	I	

P-0002	50% DD Drawings V	Walk Thru Minutes Questi	ions	Closed	09/15/2009	09/29/2009	10/01/2009	Potentially
From: Webcor Const	truction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered By:	Transbay PMP0	C Mark	O'Dell
Co-Author:								



the 50% DD Budget Estimate.

2.) Above Grade, Paragraph 5 - Please provide the temporary mechanical and electrical service information that is to be included in the 50% DD Budget Estimate, or

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

16 of 1053 11/05/2013 10:53 AM

Time: Job: 30100

30100 - Transbay Transit Center Project

see attachment (file too large)

		,		,			
umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached Meeting Minutes					et pipe columns		
Please provide the following:			lightweight co	oncrete. At the E	ous deck are filled Bus Deck Level, t	the	
1.) Meeting Minute Item 3.2.4.1 - Please provide the VE					be assumed to be oncrete fill, intum		
alternate addendum 2.) Meeting Minute Item 4.7.5.4 - Please provide the RVA			paint or sprag	y fireproofing. A	II the rest of the sections, are spra	steel	
criteria VE options					pped with a clade		
Meeting Minute Item 4.7.5.1 - Please provide Webcor / Obayashi with information we are to review							
 Meeting Minute Item 5.5 - Please provide the TT Revit 3D model to Webcor / Obayashi 							
5.) Meeting Minute Item 9.5 - Please provide the clarification for items 9.5, 9.5.2, 9.5.3, 9.5.4, and 9.5.5							
From: Webcor/Obayashi Joint Venture	70: Transbay PMPC	Definition Closed Mark O'Dell	09/17/2009 Answered B	10/01/2009 y :Transbay PMF	09/29/2009 PC Mark	Potentia k O'Dell	lly
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached SKA-0488 to SKA-0494, SKA-sheets A-2207, A-2307, TTCSF - OA Phasing Narrative, TTC-			•		& PE704 are affe hed revised B1 L	,	
MEP Phasing			Phasing Drav	wing. These elev	rators are now sh	own as	
Passenger elevators PE703 & PE704 (sheets A-2207 &			located unde	r the east end te	mporary mechar	nical	
A2307) at gridlines 35.7/E.6 are indicated as Phase 1 (Red) scope at the Lower Concourse Level (SKA-0489)					ve no useful funct 1 the pits should		
and as Phase 2 (Green) scope at Ground Level (SKA-0490) on the Phasing Sketches dated 9/8/09. Please			constructed a	and provided witl	n a guardrail at thoor opening frame	ne B1	
confirm of what the planned operation of these elevators			provided with	a temporary, wa	aterproofed, cond	crete	
will be if they will not go to the ground level.					naft, cabs, roping finishes would b		
In addition, please provide the following pertaining to Phase 1 & 2 Definition:			provided in P			-	
			_				
1.) Above Grade, Paragraph 4 - Please provide the temporary landscaping information that is to be included in			Response to	additional quest	ions 1 thru 12:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 17 of 1053 Date: 11/05/2013 Time:

Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

note which items on the MEP Phasing PDF provide this information.

- 3.) Below Grade, Paragraph 3 All four (4) stairs shown on SKA-0488 are shown in orange, which indicates they are temporary, however the narrative indicates differently. Please indicate in plan, which stairs are temporary and which are permanent.
- 4.) B2 Train Platform Level, Paragraph All four (4) stairs shown on SKA-0489 are shown in orange, which indicates they are temporary, however the narrative indicates differently. Please indicate in plan, which stairs are temporary and which are permanent.
- 5.) B1 Train Platform, Paragraph 2 Please confirm which option of "temporary rated floor assemblies" or "rated GWB on metal stud enclosures" is to be included in the 50% DD Estimate.
- 6.) B1 Train Platform, Paragraph 3 Please provide the dimensions and rating for the "temporary closure wall" to be provided at the entry.
- 7.) B1 Train Platform, Paragraph 6 Please provide the location of the "temporary stud and drywall wall" at the glass skylight. Is this to be constructed at the Concourse Level?
- 8.) SKA-0488 Please provide the general details of what the "temporary" train box East and West end walls will consist of, so this can be included in the 50% DD Budget Estimate.
- 9.) SKA-0488 Per Thornton Tomasetti (as indicated in DL's Alternate & Phasing document, dated 9/3/09), the "Trainbox of Phase 1 extends to 1/3 bay past grid-line 36 as basis for estimate", this is not consistent with the SKA-0488. Please confirm which is correct.
- 10.) SKA-0489 / Detail 2 Please provide the general details for the "temporary" train box East end wall will consist of, so this can be included in the 50% DD Budget Estimate.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

18 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

- 11.) SKA-0490 / Detail 1 Please provide the general details for the "temporary construction" will consist of at the circular vent structure.
- 12.) SKA-0490 / Detail 2 Please provide the general wall and roof type details for the "temporary mechanical compound" will consist of at the East end. Is it anticipated that this structure will be completely removed and replaced by the permanent Phase 2 construction?

P-0004	Phase 1	1 & 2 Definition	Sketch Questions

From: Webcor/Obayashi Joint Venture

Rvan Cerri

To: Transbay PMPC

Mark O'Dell

Closed

09/18/2009 10/02/2009 Answered By: Transbay PMPC

10/07/2009

Potentially

Mark O'Dell

Co-Author:

REQUEST:

Reference: SKA-0488 thru SKA-0490

- 1.) SKA-0488 Please provide the general details of what the "temporary" train box East and West end walls will consist of, so this can be included in the 50% DD Budget Estimate.
- 2.) SKA-0488 Per Thornton Tomasetti (as indicated in DL's Alternate & Phasing document, dated 9/3/09), the "Trainbox of Phase 1 extends to 1/3 bay past grid-line 36 as basis for estimate", this is not consistent with the SKA-0488. Please confirm which is correct.
- 3.) SKA-0489 / Detail 2 Please provide the general details for the "temporary" train box East end wall will consist of, so this can be included in the 50% DD Budget Estimate.
- 4.) SKA-0490 / Detail 1 Please provide the general details for the "temporary construction" will consist of at the circular vent structure.
- 5.) SKA-0490 / Detail 2 Please provide the general wall and roof type details for the "temporary mechanical compound" will consist of at the East end. Is it anticipated that this structure will be completely removed and

SUGGESTION:

Accept Suggestion: Response to DR 00003.

1) See attached sketch SSK-012

ANSWER:

- 2) Follow SKA-0488
- 3) Same as indicated in SSK-012
- 4) Disregard "Temporary Construction" as none is needed
- 5) "Temporary Mechanical Compound" will consist of a chain link enclosure fencing with privacy screening.



(Room Finish Schedule).

Please advise what the finish information for floor, base,

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

exposed stringers, edges and soffits.

19 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

JOINT VENTURE		30100 - Tra	ansbay Trans	sit Center	Project			
lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
replaced by the permanent Pha	ise 2 construction?							
P-0005 TC1: Wi	ndow Washing Equipment 50%	6 DD Budgeting Scope	Closed	09/18/2009	10/02/2009	10/15/2009	Potential	ly 🗌
From: Webcor Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered B	y :Transbay PMF	C Mark	O'Dell	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Specifications Vol 1	- Sections 11 24 23					is the specificati		
Specifications sections 11 24 2 2.1.2.1, 2.1.2.6 and 2.1.2.9 - resystems, compatible manual arassemblies	ferences monorail track			should be co We will be m yesterday, bu	sted at this point odifying the metl	nods based on me utilizing those thir	eetings	
2.1.4.1 - references to powered	platforms							
2.1.7.3 - references gantry work	<							
None of the items listed above window washing drawings issue Please advise where the windor trolley assemblies, powered pla allowed for in the 50% DD Budg	ed in the current set. w washing monorails, atforms and gantries be							
P-0006 TC1: Fin	ish Schedule Missing Informa	tion	Closed	09/19/2009	10/02/2009	10/13/2009	Detential	h. 🗆
From: Webcor Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell		y:Transbay PMF		Potential O'Dell	іу 🔛
Co-Author:	rtyan oom	10. Hallsbay FINIFC	Mark O Deli	Allsweied B	y. Halisbay Fivir	C Wark	O Dell	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 1/ A-0005, A-9250, sheets	attached mark-up detail	000020110.111		Public Stairs	-			
Schematic design architectu (Train Platform Level Finishes L types "S-1" - Public Stair and "S	_ayout Plan) identifies room S-2" - Exit Stair. These			concourses. Steel stair co	nstruction, with I	d from the public		
room types are not identified or	50% DD datail 1/A-0005			finish i o sha	at ctainlace etac	I cladding and trip	m +0	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 20 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

walls, ceilings, doors and frames for these spaces.

2.) Detail 1/ A-0005 does not identify/ list the "Code" and abbreviations for the first column of descriptions (see attached sheet). Abbreviation descriptions for "concrete", "durable sealer", "epoxy terrazzo flooring", exposed", "glassfiber reinforced gypsum, painted", "glass" and "channel glass" are missing. Please provide the missing abbreviations for these material descriptions.

In addition, please advise if the missing Room Type Codes on the Finish Schedule (1/ A-0005) are intended to similar to codes identified on the Layout Sheet Plan "Room Type Legend" (sheet A-9250).

Epoxy terrazzo treads and risers c/w non slip nosings on steel stair substrate.

Stainless steel rails and posts.

Exit Stairs -

Enclosed exit stairways.

Concrete filled steel pan on steel stair structure.

Steel handrails, posts, and guard pickets.

All metal painted, including stair soffits

Landings and tread concrete sealed.

Stair doors and frames stainless steel clad on the public (concourse) side and painted on the stair side.

Exit stair walls painted.

The missing abbreviations are as follows:

CONC CONCRETE

SPC DURABLE SEALER

EF
EPOXY TERRRAZZO FLOORING

EXP EXPOSED

GFRG



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

21 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					GLASSFIBE GL GLASS GLC CHANNEL (ER REINFORCED	O GYPSUM, PAI	NTED	
					(1/ A-0005) a	om Type Codes on tre intended to sing t Sheet Plan "Ro	milar to codes id	entified	
P-0007	TC1: Exterior	Skin Mockups		Closed	09/21/2009	09/28/2009	11/04/2009	Potentia	lly 🗌
From: Web	cor Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered B	y :Davis Langdon	. Mike	Parkyn	
Co-Author:									
[08 44 26] a 50% DD sp - 26] and [0 extent of gl cannot be f Please adv requiremen example, p performance	50% DD Specifications S and [08 63 00] recifications sections [08 4 8 63 00 - 16] refer to secti ass enclosure mockups. So ound in the specifications. ise what should be anticip that for the 50% DD budget lease advise to which skin te, blast and/ or visual moc pproximate test size areas	11 23 - 17], [08 44 26 ion 084426A for the Section 084426A	SUGGESTION:		and DL both enclosure mo	Accept Sugge ce of further defir carry \$500K allow ock-ups. This do is would be part of	nition, at 50% DE wance for glass es not include bl		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 22 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor/Obayas	shi Joint Venture		To: Transbay PMPC	Mark O'Dell	Answered B	y: Pelli Clarke Pe	elli Architect Rand	y Volenec	
REQUEST: Reference: SKA-0488 Phasing sketch SKA- extending to the Trair The 50% DD drawing the stair terminating a Please advise if the S	0488 indicates in F Platform Level (g sheets A-2102 & It the Lower Conco tair 202 extension	RED Stair 202 ridlines F.5/ 1.5). A-2202 indicates ourse Level. to the Train	SUGGESTION:		level up to the (currently) Ur Triangle at th the B1 level. location has redefinitely be re	e Ground Floor I nassigned Space e B2 level and tl Stair 202's final not been settle y required perman	gestion:	the st enter at	
Platform Level is a per requiring stair removated Phase 2.					part of Phase Randy Volence 9/29/2009				
-0009	Revised Trainbo	ox Layout for Construct	ion Documents	Closed	11/10/2009	11/10/2009	11/23/2009	Potential	lly
From: Webcor Constru Co-Author:	uction LP	Ryan Cerri	To: Transbay PMPC	Alfred Lau	Answered B	y: Transbay PMF	PC Mark	O'Dell	
REQUEST: Please confirm SKA 6 are the most current to for preconstruction so construction.	rainbox layouts, w	hich shall be used	SUGGESTION:		Review No. 0 this time, of the second of the	10012 are the mother Architectural d 2 x 10" reduction are were prepare or the design teal e location and sign teals	ed primarily as stu m and to assist d ze of the building dingly they form p	dy ecision relative	
					whatsoever for sketches provinformation. F this information	or the interpretat vided for Design Furthermore, any on will be respor	sume any respons ion and use by ot Development yone who chooses sible for verifying own application.	hers, of s to use	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

two escalators and a stair. These are E705, E706 and

23 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

			Date	Date	Date	Cost	
Number Subject		<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Procee
			Construction	and under no cirued prior to the C	s have been issue cumstances will construction Phas		
			Regards				
			Paul				
P-0010 TC1: Structural Steel Design A From: Webcor/Obayashi Joint Venture	Illowance Calculation Clarification To: Transbay PMPC	Closed Mark O'Dell	09/21/2009 Answered B	09/28/2009 Sy: Transbay PMF	09/30/2009 C Mark	Potentia l O'Dell	lly
Co-Author:							
REQUEST: Reference: S-2302 thru S-2507 Structural sheets S-2302 thru S-2507 identifies a 3 lb/s	SUGGESTION:		design contir		plans (additional s		
allowance for design contingencies associated with structural steel and miscellaneous steel not shown and sheets S-2601 thru S-2607 identifies a 4 lb/sf allowanc for the same.			Mark O'Dell - 9/30/2009	- TJPA			
Please clarify how these lb/sf allowances should be calculated. Should these allowances be applied to the steel framed areas of the overall GSF?							
P-0011 TC1: 50% DD Phasing Sketch	Inconsistency - Temporary Stair on Lower	Concours Closed	09/24/2009	10/01/2009	09/29/2009	Potential	lly 🗌
From: Webcor/Obayashi Joint Venture	To: Transbay PMPC	Mark O'Dell	Answered B	y: Pelli Clarke Pe	Ili Architect Rand	y Volenec	
Co-Author:							
REQUEST: Reference: Attached SKA-0488, SKA-0489, SKA-0490	SUGGESTION:		ANSWER: The Stair ind	Accept Sug	gestion: s 36-37 / F-G is a	ctually	



Co-Author:

REQUEST:

Reference: Attached Raito RFI, attached drawing

Webcor/Obayashi Joint Venture

Webcor/Obayasiii Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 24 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

panels where coring was agreed to are: Panels B-

				<u> </u>							
Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
Phasing sketch SKA-0489 (Lower concourse level) indicates a temporary Phase 1 stair (enclosed in Red and Orange) by gridlines 36-37/ F-G. Phasing sketches SKA- 0488 (Trian Platform level) and SkA-0490 (Ground level) do not indicate of a stair or enclosure at the referenced grid location. Please advise if the stair identified is to go up to the Ground level or down to the Train Platform level.		Status	Stair 701. In connection be the Ground L (Ground) and green and ardown to the Train Concordere on Ground Floor the west of the opening is to escalators. Temporary Confill and shall the rest of the Temporary Moremoved and Bus Facility. Paul McPhai 9-29-2009 *Additional connections of the Connection	Phase 2 these petween the Train evel. They are in I SKA-0489 (B1 e not installed in Train Platform le escalator pits are urse Level and ir metal deck on structure to metal be framed to substitution to substitution of the covered with e slab in this are lechanical Complete and the covered as paid and the covered with the solution of the covered with the slab in this are lechanical Complete and the covered as paid of the covered as paid of the covered with the slab in this are lechanical Complete as the second paid of the second paid with openings are in the second paid the second paid with openings are in the second paid with openings are in the second paid the seco	Answered Provide a vertical of Concourse Lever adicated on SKA-Train Concourse) Phase 1. They divel. The to be provided at itstalled with tempeel framing infill. A part of the future stair abe provided with a deck on steel frain waterproofing si a forming the floopound. This will be to of the Phase 2 I decided.	I and 0490 in o not go at the B1 orary At the ea to 7, an and a ming milar to r of entercity	Proceed				
					openings and openings.	d put up tempora	st to construct the ary guard rails aro				
				Randy Volen 9-29-2009	ec - PCPA						
P-0012	TTC - Raito Geo-te	st Core Locations		Closed	10/01/2009	10/08/2009	10/14/2009	Potential	lly		
From: Webco	r/Obayashi Joint Venture	Ryan Cerri	To: Arup	Demetrious Koutsoftas	Answered B	y: Transbay PMF	PC Mark	O'Dell	_		

SUGGESTION:



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

25 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

	30100 - 11	Transpay Transit Center Project							
umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
Please identify the locations of Raito's (3) requested or locations for the Transbay Transit Test Program project Please reference the attached drawing of Raito's drillin Raito has discussed the recommended core locations Deme on 10-1-2009.	t. g.		11/B-12,C-4/C	C-5,and B-7/B-8					
-0013 Pre-Qualification Questions		Closed	01/05/2010	01/19/2010	03/24/2010	Potential	ly		
From: Webcor Construction LP Ryan Cer	ri To: Transbay PMPC	Mark O'Dell	Answered By	:Webcor Constr	uction LP Mari	na Rosso			
Co-Author:									
REQUEST:	SUGGESTION:		ANSWER:	Accept Sugg	gestion:				
Please see the attached questions regarding the pre- qualification process. Please verify if the answers are correct. If they are not, please provide the correct ans Thanks.	(Can't find answer in Conswer.	tructware)							
-0014 Caltrans Spec for Temp Road	Design Criteria	Closed	01/13/2010	01/27/2010	01/14/2010	Potential	ly 🗌		
From: Webcor/Obayashi Joint Venture Ryan Cer	ri To: Transbay PMPC	Mark O'Dell	Answered By	:Transbay PMP	C Mark	c O'Dell			
REQUEST:	SUGGESTION:		ANSWER:	Accept Sugg	nestion:				
Reference: OAC Meeting Minutes 12/10/09; Below Gra Internal Bracing Design Workshop Meeting Minutes 12/15/09, Caltrans Spec 12/18/09			Criteria for the contained in the criteria will be	e design of temp he document ho indicated in the	rary roadways is wever the specif 100% Shoring	ic			
Please confirm that the Caltrans spec you attached to OAC Meeting Minutes 12/10/09 are to be used as desi criteria for the temporary roadways on First St., Fremo St., and Beale St.	gn				cifications. Preli Loading will be u	•			
-0015 East Shoring Wall at Gridline	37	Closed	01/14/2010	01/28/2010	03/03/2010	Potential	ly 🗌		
From: Webcor Construction LP Ryan Cer	ri To: Transbay PMPC	Mark O'Dell	Answered By	Transbay PMP	C Mark	c O'Dell			
Co-Author:									

SUGGESTION:



Ref: email "Re: Div 01 spec sections for consultant review"

W/O received the Division 00 and 01 index from TJPA on 1/13/10. W/O received the Division 01 specifications on 1/13/10, but did not include Division 00. Please confirm

dated 1/14/10; Div 00 and 01 index; Division 01 Specs

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

26 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Response Notes:

PMPC sent Division 00 to W/O on January 18, 2010.

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Draft 90% Shor				As we discussed in the Below Grade Structu Workshop on Tuesday Janurary 12th, 2010, location of the east shoring wall is still in flux indications are that the wall will be located or column line 35 than column line 37. Since the of the wall will coincide with the location of the wall will coincide with the location of the seismic joint, PCPA indicated yesterday (Jan 13th) in a conference call @ 3:00PM that the design team recommendation is awaiting ferfrom Thornton Tomasetti. We expect this does made this week. The final dimensioned will be documented in the 100% Shoring Concuments however it is likely that the final dimensioned location will be available soone The exact dimension is indicated on sheet of the 100% Buttress/Shoring/Excavation Subr					
					the 100% But dated 2/26/10	tress/Shoring/Ex	cavation Submitta of the shoring wa	al	
-0016	PG&E Phase	I Duct Banks Weights at Te	emp Road Decks	Closed	01/14/2010	01/28/2010	01/21/2010	Potential	ly 🗌
From: Webcor 0	Construction LP	Ryan Cerri	To: Transbay PMPC	Guy Hollins	Answered By	Transbay PMP	C Guy F	Hollins	
o-Author:									
Please provide St. and Fremor	J-2020, U-2021, U-20 weight per LF of PG& nt St This information Imporary road decks.	E I duct banks at 1st.	SUGGESTION:		ANSWER: Response Nor Cable = 8.2 lb Total = 25.9 lb				
-0017	TC1 Division	00 Specs Receive Date		Closed	01/15/2010	01/29/2010	01/25/2010	Potential	ly 🗌
From: Webcor (Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered By	:Transbay PMP	C Mark	O'Dell	- 🔲
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 27 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
when W/O	will receive Division 00.								
-0018	TC1 Transmitta	al for Buttress Package r	eceived 1-14-2010	Closed	01/15/2010	01/29/2010	01/21/2010	Potentiall	v 🗆
From: Webo	cor Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered By	Transbay PMP0	C Mark	O'Dell	, _—
Co-Author:			•			,			
for Review" The transm Constructio complete. transmittal: have been Listing of Listing of Title and included on Review C CD, but no	ess Package - Construction transmittal dated 1/14/10 ittal sent with the "Buttress in Documents Issued for Replease include the following and reissue so we can verifeceived: all drawings transmitted all specifications transmitted date of CD, including a list the CD comments Responses (whice	Package - eview" is not g information in the fy all documents ed of all documents ch were found on the transmittals so W/O	SUGGESTION:		ANSWER: Response Not	Accept Sugg es: Please see		nittal.	
-0019	TC1 Construct	ion Documents Issuance	e Schedule	Closed	01/19/2010	02/02/2010	03/03/2010	Potentiall	v 🗆
	cor Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell		Transbay PMP0		O'Dell	,
Co-Author:			·			·			
provide cos 100%CD, h 50%CD and	or preconstruction scope of t estimates at 100%DD, 50 owever there are currently d 85%CD. Please provide d 85%CD for incorporation	9%CD, 85%CD, and no publish dates for publish dates for	SUGGESTION:		Document Sub The current da Document Sub These dates w	Accept Sugg te for issuing the omittal is August te for issuing the omittal is Decem fill most likely ch	e 50% Construc 30, 2010. e 85% Construc ber 20, 2010. ange in the futu	ion e to	



6) SE-5020 8) SE-5040

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

28 of 1053 11/05/2013

Time:

10:53 AM 30100

lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
P-0020 301 Mission Wall - Surve	y Info, Dim. From A	-Line	Closed	03/04/2010	03/18/2010	04/14/2010	Potential	ily
From: Webcor/Obayashi Joint Venture Mar	nuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	Transbay PMP	C Marl	k O'Dell	
Co-Author:								
REQUEST: Ref: email "301 Mission Wall - Survey Info, dated C-2003 - A Line, A-2306 - A line. Please provide the dimension from the "x" marke sidewalk (adjacent to the 301 Mission wall) to grid the 100% Design Development drawings.	d on the	SUGGESTION:		ANSWER: The dimension sketch from S		gestion:	ched	
2-0021 Site Description After De	mo		Closed	03/10/2010	03/24/2010	03/30/2010	Potential	ily
From: Webcor/Obayashi Joint Venture Mar	nuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	Transbay PMP	C Mark	k O'Dell	
Co-Author:								
REQUEST: After demolition of the site and upon turnover to Nobayashi, please provide a description of what the look like and drawings containing the following into 1). Finish grade elevations. 2) Locations of fences and gates. 3) Properties available for staging and storage. 4) Laydown of crushed concrete (Volume and locations concrete available for our use). 5) Condition of existing basements and structure.	ne site will formation:	SUGGESTION:		ANSWER: This information documents. Constructware	Accept Sugarn is to be provi			
P-0022 Missing 100%DD DWG F	iles		Closed	03/10/2010	03/24/2010	03/30/2010	Potential	ily
From: Webcor/Obayashi Joint Venture Mar	nuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	Transbay PMP	C Marl	k O'Dell	
Co-Author:								
REQUEST: Listed below are drawings in which the DWG files missing from the issuance of the 100%DD, pleas provide: 1) S-2103 2) S-5301 3) SE-4000 4) SE-4001 5) SE-5010		SUGGESTION:		10, 2010.	Accept Sugressent to Webcons DRQ #000022	/ Obayashi on N	darch	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 29 of 1053 11/05/2013

Time: Job:

the location as shown on the plans and there was no indication of the water line in the bell hole excavated

by PG&E.

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
9) SE-505	50								
0023	UR - Existing Wa	ter Line At Fremont Stre	eet	Closed	03/11/2010	03/25/2010	04/05/2010	Potential	ly 🗌
From: Web	ocor/Obayashi Joint Venture	Manuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	:AECOM Techr	ical Service Eric	Zagol	
o-Author:									
REQUES1	Г:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Sheet U-1 Street to b Sheet U-2 relocation stations 4- After revie TJPA to W review tak see a conf of the wate extensive a very close Please rev JV believe	e: AECOM Early Release Pack 2, Note 13; U-2023 122, Note 13 calls for the water be demolished, but not in the eaco 23 of the early package does of a small portion of that water +00 and 4+50 to accommodate wow of the demolition drawings as Vebcor/Obayashi for reference ing into account the extent of the flict with the (E) water line base er line provided thru U.S.A. The and demolition will require short to the existing water line if not view and provide a solution. We shall a temporary relocation of the 2+50 and 4+50 is a potential	r line in Fremont arly package. call for the line between the shoring wall. s provided by only, and a field ne footings we don the location e footings are ring that will be on top of the line.			the existing worelease as she due to the exishead portion of the shoring wall for labeled as ¿T OTHERS¿. To in the Buttress/Shorthe existing water AECOM belie improperly marecently active field show the PG&E HP Ga Transbay Prougles of the existing water the property of the existing water the property marecently active field show the property west of the existing water the property of the pro	ater line between own (between Sisting water line as of the temporary 2 and U-1123 shor Transbay Terrick EMPORARY Shirt wall is based shoring/Excavation pater line as shown 122, appears no line south of ST wes that the water water in the sar is (steel gas pipe gram Topograph the existing PG&E HP	now the temporare minal footing den HORING WALL El on information i ation package. In wall as shown backage, the locator in the Program d' Utility Survey, at in conflict with the A ~3+80.	rly 1+60) ammer ry nolition BY ncluded in the ation of and as the A ticket the the e und ~3.2; ching	
					AECOM found PG&E HP Ga made by AEC	d the water line t s line. Additiona OM during PG&	o be 3.25¿ west ally, visual observ E HP Gas work i	of the ations n	



Page:

30 of 1053 11/05/2013

Date:

Time: 10:53 AM

WEBCOR	BAYASHI	PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG Job: 10:53 AM 30100										
	URE		30100 - Tra	ansbay Trans	sit Center	Project						
lumber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed			
					AECOM recor	ecommends the following:						
				PMPC/TJPA ¿ prov location of the temp Terminal footing det the Buttress/Shoring PMPC/AECOM ¿ N suspect their water and request CDD re Analyze the above of	temp shoring wang demolition. (shoring/Excavati M ¿ Notify SFPL water line has been bove data to detect the Early Release the Early Release the demonstration of the Early Release the Market the Market the Early Release the Market t							
P-0024	DTX 650' HSR Tra	acks And Platform Exter	nsion Study Drawings	Closed	03/19/2010	04/02/2010	04/15/2010	Potentia	lly 🗌			
From: Webcor	/Obayashi Joint Venture	Manuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	:Transbay PMP	C Mark	O'Dell				
Co-Author:												
"Updated Figu Extension Stu direction on ho files:	nyashi received drawings re ures for DTX 650' HSR Trac dy", please provide a trans ow to proceed with the follo	ks and Platform mittal and wing attached	SUGGESTION:		Transmittal #1 The accompa reference. No	action is requir	al. arks (04/15/10): n is for your revie	ew and				
2) Sheet-DTX 09-10	(Modifications for HSR FIG(Modifications for HSR FIG(Modifications for HSR FIG	2-BLOWUP 03-			Constructware	e DRQ #00024						
P-0025	Tieback Anchors	Under Natoma And Min	na Drawings	Closed	03/19/2010	04/02/2010	04/15/2010	Potentia	llv 🗆			
	Obayashi Joint Venture	Manuel Saldana	To: Transbay PMPC	Mark O'Dell		Transbay PMP		O'Dell				
Co Authori	•				•							

REQUEST:

Webcor / Obayashi received drawings regarding the

SUGGESTION:

ANSWER:

Accept Suggestion:

Please see attached transmittal



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

31 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
"Tieback Anchors Under Natoma and Minna", please provide a transmittal and direction on how to proceed with the following attached files: 1) 400 Howard Shoring Tiebacks, (Sheet #SH1-1., SH1-2., SH1-3., SH1-4) 2) 500_HOWARD_SHORING-TIEBACKS 3) X-2082-1			Transmittal #140-00070 Remarks (04/15/10): The accompanying information is for your review and reference. No action is required at this time. Constructware DRQ #00025						
-0026 Shoring Wall And Buttress Comme	nt Log Clarification Request	Closed	03/19/2010	04/02/2010	04/15/2010	Potentially	,		
From: Webcor/Obayashi Joint Venture Manuel Saldan:	To : Transbay PMPC	Mark O'Dell	Answered B	y :Transbay PMF	PC Mark	O'Dell			
Co-Author:									
REQUEST: Below is a list of questions that provide an overview of information Webcor / Obayashi needs clarified for the Comment Logs provided with the 100% CD Shoring. These are not the only questions we have or will have. 1) The "Design Team Response" comments do not appear to be final answers. For example, the Shoring comments #2 and #5 say items "will" be submitted / provided. What date will they be provided? 2) What date can Webcor / Obayashi expect the final response / answer for items that are unresolved (i.e. #5 on the Shoring Comment Log- "TJPA to respond", and #329 on the Buttress Comment Log - "PMPC to respond.")? 3) What is Webcor / Obayashi expected to do with response comments like Shoring comment #5.10 - "Alternate solutions to the buttress scheme should be considered"; and #5.12 - "Needs further discussion"?	SUGGESTION:		remainder of April 6th 2010 Buttress / Sh Design Revie	Webcor / Obaya 0 regarding the r oring / Excavation	gestion: Sessed along with ashi Comments deview of the 100% on - Issued for Str	ated % CD:			
-0027 100%DD Specification Section 07 1 From: Webcor/Obayashi Joint Venture Manuel Saldan	·	Closed Mark O'Dell	03/23/2010 Answered B	04/06/2010 У :Transbay PMF	03/31/2010 PC Mark	Potentially	·		

SUGGESTION:



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

32 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

ANSWER:

Accept Suggestion:

umber Subject			Ctatus	Date Created	Date Required	Date Answered	Cost	Duagas
umber Subject			<u>Status</u>	Createu	Kequirea	Answered	Impact	<u>Procee</u>
In Volumes 1 & 2 of the 100% DD s 07 18 23 and 09 27 13 have the foll 1) Spec. section 07 18 23 - Vehicul (02/16/10) is missing from Volume's specifications, but is marked as isst Contents. Please confirm spec. seconger exists, it's corresponding infoinputted / consolidated with spec. st Traffic Coatings (02.16.10), and upodocuments accordingly. 2) In Volume 2 of the 100%DD spe 27 13 - Glass-Fiber Reinforced Plas (02.16.10) is labeled as 09 27 16 in Please confirm whether spec. secti 16 is correct for the Glass-Fiber Rei Fabrications (02/16/10) specification documents accordingly.	owing discrepancies: lar Traffic Coating 1 of the 100%DD ued in the Table of ction 07 18 23 no ormation has been ection 07 18 00 - date contract cifications, section 09 ster-GFRP-Fabrications the Table of Contents. on #09 27 13 or 09 26 inforced Plaster-GFRP-			 Confirmed specified in 07 longer exists. Section 09 typographical Constructware)			
-0028 Missing 100	% DD Spec. Section 00 30 00) - Desktop Cladding And Secon	ndary Struc Closed	03/23/2010	04/06/2010	04/15/2010	Potential	lly
From: Webcor/Obayashi Joint Ventu	ire Manuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	Transbay PMP	C Mark C	D'Dell	
co-Author:								
REQUEST: In Volume 1 of the 100%DD specific 00 - Desktop Cladding And Second: Load Review (12/14/09) is marked a of Contents, but is not included in the provide specification section 00 30 and Secondary Structure Wind Load confirm it has not been issued and documents accordingly.	ary Structure Wind as issued in the Table ne package. Please 0 - Desktop Cladding d Review (12/14/09) or	SUGGESTION:		Review Repor preliminary an	t is listed by mis d not ready for it issued with the	gestion: econdary Wind Loa stake. The report issuance. It was n e B / S / E Package	s ot	
•	oncrete Mat Slab Pour	To: Transk av BMDO	Closed	04/01/2010 Answered By	04/15/2010	04/05/2010	Potential	ly
From: Webcor/Obayashi Joint Ventu	ire Manuel Saldana	To: Transbay PMPC	Mark O'Dell	Answered By	Thornton Toma	asetti Albert	Chen	

SUGGESTION:



Ref: Adamson Associates Transbay Transit Center Phasing, February 26, 2010; A-2106 and A-2103 (dated

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Response: Answer provided; no action needed

33 of 1053 11/05/2013

30100

Time:

10:53 AM

20100 Tranchay Transit Contar Project

		30100 - 112	ansbay rrans							
umber Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proce		
As discussed in previous meetings, acceptable to pour the concrete mat of the project and in up to 400' in ler (Note: Webcor / Obayashi needs thi 100%DD estimating purposes.)	slab in the full width nigth.			The 100%DD specification, paragraph 3.2.2A limit the maximum length of the concrete pour for mat slab and train box wall to 60ft. This requirement is to minimize heat gain due to cement hydration during the pour and reduce shrinkage induced cracking and plastic settlement. This practice is very common in the construction of large water containment structures that require good quality concrete for water tightness. Please follow the DD Spec. Answered by Albert Chen Thornton Thomasetti 04/05/10 Constructware DRQ #00029						
-0030 TC1 100% DI	O Train Platform Mechani	cal Room Door Sizes	Closed	05/12/2010	05/19/2010	05/20/2010	Potential	lly 🗀		
From: Webcor Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered By	y: Transbay PMF	PC Mark	O'Dell			
Co-Author:										
REQUEST: Ref: A-3001, grids 3-6 and B-D (date Per our scheduling exercises, we ob conditions in the 100% DD drawings The mechanical rooms in the Train I CMU walls. We are scheduling to interpretable equipment prior to CMU because me rooms will not fit through a 3' wide do the door sizes for the following room B2223, B2230, and B2228.	served these : Platform BOH call for stall the mechanical post equipment in these oor. Please confirm	SUGGESTION:		ANSWER: Confirmed.	Accept Sug	gestion:				
From: Webcor Construction LP	D PE301 & PE603 Phase 1 Ryan Cerri	I/Phase 2 Clarification To: Transbay PMPC	Closed Mark O'Dell	05/12/2010 Answered By	05/26/2010 y :Transbay PMF	05/20/2010 PC Mark	Potential	ly		
Co-Author: REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

34 of 1053 11/05/2013 10:53 AM

Time: 30100

20100 Tranchay Transit Contar Project

001111 1211	10112		30100 - Trans	sbay Trans	sit Center	Project				
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
are identified built in Phase Phase 2 (color installation fo Phase 2 at both in compliance	enced phasing document on the Train Platform leven 1 (color red), and the elor green). We have scheor Phase 1 and the elevator the elevator locations. Plewith Phase 1 and Phastant for the 100% DD sch	vel as the core being evator being built in duled the CMU or installation for ease confirm this is e 2 construction.			Response Notes: 100% Design Development Architectural Drawings A- 2103 and A-2106 do not depict phasing. For phasing refer to SKA-0777 and SKA-0778, dated 02/26/2010. For elevators PE301 and PE603, the Phasing Diagram Legend Note # 5 states: Elevator Pit in Mat Slab. It is the intent to provide elevator/escalator pits in the Mat Slab only for the CalTrain platform, to accommodate low platform height.					
-0032	TC1 100% DD	Stair 202 Landings Clari	fication	Closed	05/12/2010	05/26/2010	05/20/2010	Potentia	lly 🗌	
From: Webco	or Construction LP	Ryan Cerri	To: Transbay PMPC	Mark O'Dell	Answered B	y: Transbay PMF	PC Mark	O'Dell		
o-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
(dated 2/16/1 Per our sched conditions in The reference the Train Plate stair 202 from We have scheduler than the Train Plate scheduler than the Train Plat	A-2202, A-2203 and A-2 10) duling exercises, we obs the 100% DD drawings: ed plan view drawings sh tform Level to the 2nd Le n the Train Platform Leve leduled stair 202 to servior this is correct. This is hedule development.	erved these now stair 202 from evel. 1/A-7103 shows el to the ground level. ce up to Level 2.			Response No Stair 202 is to	otes: o service from Ple. The section of	no action needed atform Level to the on drawing A-7103			
0033	TC1 Vertical T	ransportation at Grids 1	0-11 Phase Designation	Closed	06/15/2010	06/30/2010	06/28/2010	Potentia	lly	
From: Webco	or Construction LP	Ryan Cerri	To: Adamson Associates, Inc.	Sandor Rott	Answered B	y:Adamson Asso	ociates, Inc Sando	or Rott		
o-Author:										
REQUEST: Ref: Adamso	on Associates Phasing Pl	an, dated 2/26/10;	SUGGESTION:		ANSWER: Acceptable	Accept Sug	gestion:			

SKA-0779 identifies the following vertical transportation areas (grids 10-11) as Phase 1 or Phase 2:

SKA-0778 and SKA-0779; 100% Design Development drawings, dated 2/16/10; A-2203 and A-2303



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 35 of 1053 11/05/2013 10:53 AM

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

- Stairs 309 & 311 (serving lower concourse and ground levels) in Phase 1 (note: SKA-0778 shows these stairs constructed in Phase 2)
- Escalators 303 & 304 (serving lower concourse and ground levels) in Phase 2
- Escalators 305 & 306 (serving ground and bus deck levels) in Phase 2 $\,$

It looks as if the phases for stairs 309 & 311 and escalators 305 & 306 could be reversed seeing the floors that they serve. Please confirm the phases for each area above, so we can provide an accurate 100% DD schedule.

P-0034	TC1	Control	Dointe	nor	11_0040
P-0034	161	Control	Points	ber	U-0010

From: Webcor Construction LP

Michael Constable

To: Transbay PMPC

Mark O'Dell

Closed

08/12/2010 08/19/2010

11/17/2010

Potentially

Answered By: Webcor Construction LP Joanne Filipas

Co-Author:

Ref: U-0010 (dated 7/9/10)

The referenced drawing shows four control point locations:

- 1. Point #101 NE Corner of Second St. & Mission St.
- 2. Point #105 NE Corner of Beale St. & Mission St.
- 3. Point #106 SW Corner of Beale St. & Howard St.
- 4. Project Benchmark at SE Corner of Second St. &
- Howard St.

REQUEST:

Webcor/Obayashi field engineers have located Point #101 and the Project Benchmark on Second St. However, control Points #105 & #106 on Beale St. are missing. These control points are required for Webcor/Obayashi field surveying. Please physically place points #105 & #106 per U-0010 (dated 7/9/10).

In addition, please physically place a minimum of two clear Line-of-Sight Survey Control Points on Second, First and Fremont Streets at the Natoma and Minna intersections. This allows Webcor/Obayashi to survey PG&E utility work and additional existing utility As-Built information in PG&E excavations.

SUGGESTION:

ANSWER:

Accept Suggestion:

Response was never provided by PMPC but work was

completed.



1347 that will permit the timber piles beneath the existing footing on gridline 33.5 to be extracted per the contract documents. The piles beneath this footing should be considered for exemption since they fall outside of the Zone 4 J-line "critical areas", the thin strip orientation has

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

36 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0035	P - Steel Basket	Column Strut Connection	n at Glazing	Closed	07/12/2012	07/12/2012	07/18/2012	Potential	ly 🗌
From: Webcor Co	onstruction LP	Jeff Heath	To: Turner Construction (Compan Gary Krutsch	Answered By	:Turner Constru	ction Comp Gary	/ Krutsch	
o-Author:									
REQUEST: Ref: 14/SI-6092 1. The strut connecting the basket columns to the glazing sub framing is currently shown as part of the TG08.1 package. Because of structural steel tolerances of the basket columns, the length of the strut will vary depending on the final location of the basket column. The discussions have been going on for months about speeding up the fabrication and installation of the glazing system, therefore we would like to incorporate the strut as part of the TG07.1 Structural Steel package. Please confirm it is acceptable to incorporate the strut into the Structural Steel package. 2. Provide details for an adjustable end strut at the glazing sub frame connection. 3. Provide a typical length that takes into account the		SUGGESTION:		ANSWER: Accept Suggestion: This request is neither an RFI nor QBD. If W/O would like to pursue this issue, please formalize a letter addressed to PMPC and route through the proper venue.					
FI T-0491 From: Webcor Co	BSE - Extract Ti	mber Piles at Footing Ald Robert Kjome	ong Gridline 33.5 To: Turner Construction (Closed Compan Gary Krutsch	04/09/2013 Answered By	04/19/2013 :Adamson Asso	04/17/2013 ociates, Inc Geo	Potential rge Metzger	ly 🗌
REQUEST: Reference Speci Reference Drawing Based on converge meeting, BBII undiffing the ban on COM1347 (TCC remaining piles to the second sec	atty Infrastructure, Inc. ification: 02 41 19 ings: GT-2103 & D-221 rsation at the 4/3/13 we iderstands that the TJP pile extraction previou letter dated 10-10-12) to be removed by excave the exemption to the direct	eekly coordination A may consider sly issued in which directed all vation and cutting.	SUGGESTION:		ANSWER: This is not acc	Accept Suggeptable.	gestion:		



line will be cut below the sleeve, capped and grouted in with the trestle block-out pour back. The line will be poured in place with the future mat and concourse slabs and all 3 wall lifts. The line will also be capped at the top

of the final wall lift.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 37 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
			_					
geotechnical dr deformation co	of influence on the J-Line wall, and the awings already allow non-ground ntrol pile removal along most of the footing 2103 & D-2213 attached).							
Please advise i	f this request is acceptable?							
HIMM00-0326	BGP - Plumbing Clarifications Area 4		Open	09/18/2013	09/28/2013		Potential	y
From: Shimmick	Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drav	ving PSK-2022 and IR Rreport 1633.							
On 0/10/2013 E installation of the slab area 4 - Se	OBI inspector expressed concern about the ne 2" vent and 3" connections in the mat see IR 1633.							
Please confirm be installed per	that 2" ven and 3" connection pipes are to PSK-2022.							
HIMM00-0361	Dewaering Well Re-Route		Open	10/21/2013	10/31/2013		Potentiall	ly 🗌
From: Shimmick	Construction Company, Inc Scott Bunnell	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ce Detail 6/A1-8711 and S1-3201 of the ngs and the attached drawing.							
as proposed in elimnate any po removal, wall w	ting to re-route all 2" dewatering well llines the attached drawings. The re-route is to otential conflicts with future work (bracing raterproofing, rebar, and for/pour/strip). on of the use of the dewatering system, the							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

38 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Is this acceptable	9?							
SHIMM000-0001	BGP - Construction Joint Layout		Closed	11/15/2012	11/25/2012	11/15/2012	Potential	ly 🗌
From: Shimmick (Construction Company, Inc Tyler Shell	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Constr	uction LP Robe	rt Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Lower Concourse shown on sheet S note that the cons	nat the construction joint layouts for the e, Foundation Walls and Mat Slab as SL-025 (Exhibit A) are acceptable. Please struction joint lengths of the Mat Slab r feet in (7) of the specified areas.			in nature and i drawings. Pro be included in conform with t	s not intended to posed construct		sign s shall	
SHIMM000-0002	BGP - Foundation Wall Horizontal Const	ruction Joint Elevation	Closed	11/27/2012	12/07/2012	11/27/2012	Potential	ly
	Construction Company, Inc Tyler Shell	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Constr	uction LP David	d Fields	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Drawir Reference Specif	ngs: S1-3201, SCCI#11 & #12 fication: 03 30 20			including but r	not limited to sho	ocations with TGopp drawings and I-3201. Submit po		
the temporary wa	hed drawings showing conflicts between ller lookouts and the horizontal wall s as shown on drawing S1-3201. Please			joint locations				
SHIMM000-0003	BGP - UV damage to Modified Bitumen V	Naterproofing	Closed	01/11/2013	01/21/2013	01/11/2013	Potential	ly 🗌
From: Shimmick (Construction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Constr	uction LP Robe	rt Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specification Refe	erence: 07 12 10					rer's product data able time the mod		



over the lower sheet by 4 inches. What is the purpose of

this shingle? Since the waterproofing membrane will not

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 39 of 1053 11/05/2013

Date: Time: Job:

composite and waterproofing membrane.

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
by long-term	elf-adhering modified butimens are damaged exposure to UV. Can this membrane be traviolet radiation for extended periods of ow long?			radiation. All construction r	means and met nust adhere to the and recommend	e exposed to ultra hods of sequencir he manufacturer's dations as defined	ng	
HIMM000-0004	BGP - Modified Bitumen Waterproofing		Closed	01/11/2013	01/21/2013	01/11/2013	Potential	ily 🗌
From: Shimmi	ck Construction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Robe	rt Kjome	
o-Author:								
REQUEST: Reference Sp	pecification: 07 12 10	SUGGESTION:		ANSWER: If Shimmick c	Accept Sug	gestion:	eed per	
system has be (Section 1.1 of modified biturn application (i.e. before the structure Specifications). Laurenco War is a bitumen rewith a cold ad membrane proto those publicother modified	-adhered modified bitumen waterproofing een specified for this blind side application of Specifications). It is unusual for any men system to be used in a blind side e., where the waterproofing is installed ucture is constructed). Section 2.2 of the slists only one potential manufacturer, terproofing Systems. The Laurenco system modified with chloroprene rubber and applied lihesive. The required waterproofing operties listed in Section 2.4.B are identical shed by Laurenco. We cannot find any other d bitumen manufactured with chloroprene on re you aware of any other systems?			the specified (manuracturer.			
HIMM000-0005	BGP - Waterproofing Wall System Layers		Closed	01/11/2013	01/21/2013	01/11/2013	Potential	llv 🗀
	ck Construction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome			ruction LP Robe		.,
o-Author:							,	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	pecification: 07 12 10, 3.2-3.3			_		rs' specified detail	s.	
	2, D. requires the protection board horizontal coints to be shingled lapping the upper sheet					cturer's shop drav tion between drair		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

40 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subiect Status Impact Proceed

be adhered directly to the protection board and layers will be present between them (e.g. drainage composite w/filter fabric, insulation, felt), the shingle does not seem necessary. Please confirm.

- 2.Section 3.2, F. reads "seal top edge of filter fabric to membrane". There is a layer of 1/2" thick insulation between drainage composite and waterproofing membrane. Please clarify.
- 3. In addition to these items, there is also a concern about the number of layers used on this wall including the stability and durability prior to concrete placement. There is a large potential for problems such as creep of the adhesives securing the various layers together and loss of adhesion between layers. What is the purpose of the asphalt saturated felt layers, drainage composite, filter fabric and EPS insulation? Can some of these layers be eliminated? What level of adhesion is required between layers? Does this system of layers have sufficient rigidity to provide intimate contact between the waterproofing layer and

From: Shimmick Construction Company, Inc Ben Gordon

3. We concur that asphalt saturated felt layers, drainage composite, filter fabric, and EPS insulation are required by the specifications as layers in the waterproofing. Please submit specific RFI's requesting clarification for disperepencies between the specifications and what is shown in the drawings. Furthermore, please address specific locations shown on the contract drawings that are in concern with the manufacturer's details.

SHIMM000-0006 **BGP - Horizontal Construction Joints - Foundation Walls**

To: Webcor Construction LP

Robert Kjome

Closed

01/16/2013

ANSWER:

Answered By: Webcor Construction LP Robert Kjome

Accept Suggestion:

01/16/2013

Potentially

01/26/2013

Co-Author:

REQUEST:

Reference Specification: 03 20 00 Reference Drawing: S1-3001

Please reference detail 7 on Drawings S1-3001 and Specifications Section 03 20 00 3 .2-B. Structural details do not clearly show size of the foundation wall horizontal construction joint keyway. Specifications Section 03 20 00 3 .2-B, however, calls out for: "1-1 12 inch deep key type construction joint at the end of each placement for slabs, beams and walls unless otherwise noted on drawings". Since Specifications take precedence over the drawings in this case, SCCI believes that all horizontal construction ioints in the foundation walls shall have 1 1/2" deep keyway.

SUGGESTION:

Sheet S-0005 note GR-11 reads "APPLY DETAILS, SECTIONS. AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE."

Sheet S1-3201 references 7/S1-3001 for all horizontal constructions joints in the foundation walls.



design in Detail 1 is high.

S3H proposes a constructable solution. Please find attached the details for a constructible design. This design eliminates the waterproofing anchorage support of the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

position the headers will be valved and capped with a

pressure gauge."

41 of 1053 11/05/2013 10:53 AM

Time: Job: 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
SHIMM000-0007	BGP - WPM-1 - Mud Slab Finish for Wat	erproofing	Closed	01/17/2013	01/27/2013	01/31/2013	Potential	lly
From: Shimmick Co	onstruction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Joan	ıne Filipas	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Secti	ion 07 12 10, 3.2			See response	e to T-0370			
waterproofing man CSP level of 2 and Concrete Repair Ir "Selecting and Spe for Sealers, Coatin defines the levels of (very rough). The "a good wood screal 'sidewalk' finish attached excerpt of 1. Please confirm as it relates to surf ASTM F-value requires section 030300-3.6 section 033000 incomplete.	ace profile (CSP) required by the sufacturer Laurenco, ranges between a d 4 as defined by the International stitute (ICRI) of technical guide ecifying Concrete Surface Preparation ngs, and Polymer Overlays." The ICRI of CSP as 1 (nearly flat) to CSP Level 9 Laurenco waterproofing system requires ed or broom finishoften referred to asDo not use a steel trowel finish." See of the manufacturer specification. the specified ICRI CSP requirements face finish are to supersede the varying uirements setforth in specification 6, B1 or provide a revised specification corporating the ICRI requirement. a wood screed or broom finish is mud slab							
<u> </u>								
SHIMM000-0008	BGP - Geothermal Pipe Penetration Slee	eves at the Manifolds	Closed	01/30/2013	02/09/2013	01/30/2013	Potential	lly
From: Shimmick Co	onstruction Company, Inc Chris Williams	To: Webcor Construction LP	Lynn Kowallis	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawing	g: A1-8710					I-0006 which stat		
sleeves are not to CDSM wall. The so sleeves is the bitur waterproofing men anchorage for thes	an sheet A1-8710, the pipe penetration be anchored to any portion of the ole mounting connection for these pipe men waterproofing membranes. The mbrane is not strong enough to use as se sleeves even with temporary support.			lower concour CDSM shoring the foundation they are capp forming of the headers are to	rse level recessed wall. Prior to community wall the pipes seed with pressure final portion of to be modified an	d up to the ceiling ed in the face of the construction of the shall run to grade e gauges. During the foundation want and installed in the property wall. In their for the foundation wall.	the ne top of e where g the all, the sir final	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 42 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
penetration sleev	e. Please advise.							
HIMM000-0009	BGP - Geothermal Loop Soil Compaction		Closed	03/04/2013	03/14/2013	03/04/2013	Potential	ly 🗌
From: Shimmick (Construction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Consti	uction LP Robe	rt Kjome	
Co-Author:								
from 88%-95%, it the soil could be I In the case of a g with existing soils compacted to the accordance with a field has an existi geothermal loop t compaction may	xisting subgrade compactions varying appears that the existing conditions of below the 95% compaction requirement. eothermal loop being installed in areas below 95%, can the geothermal loop be localized compaction level in ASTM DI557? For example, if the first ng condition of88% compaction, can the renches be compacted to 88%? 95% not be possible with the existing soils and on in some areas.	SUGGESTION:		ANSWER: See Response	Accept Sugget to RFI T-0387	gestion: and RFI T-0405.		
Please advise.								
HIMM000-0010	BGP - Schedule Dates for GLS/GLR Mani	fold Construction	Closed	03/05/2013	03/15/2013	03/05/2013	Potential	ly 🗌
From: Shimmick (Construction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Consti	uction LP Robe	rt Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
schedule. This so installation of the sleeve penetration	G06.1 bid package is a conceptual hedule does not provide a date for the stainless steel geothermal manifold as or manifolds themself. Please provide on for the sleeve penetrations and h of the 15 fields.			schedule show installation an penetrations a of this work ca superstructure Coordinate wi of these syste	wing activities per different testing of the grand manifolds. Nannot delay follow concrete, super the W/O as to the ms so as not to mate off of the P	Provide a revised ertaining to the geothermal sleeve lote that the insta w on trades (i.e. retructure steel). e timing of the ins affect follow on the schedule that V	e Ilation tallation ades.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

43 of 1053 11/05/2013

Date: Time:

Page:

Job:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
HIMM000-0011	BGP - Geothermal Pipe Elevation		Closed	03/06/2013	03/16/2013	03/06/2013	Potential	ly 🗌
From: Shimmick C	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Consti	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST: Reference Drawin	ng: M-5002	SUGGESTION:			Accept Sugg 2013 Geotherma nifold piping per	I RFI meeting, in	stall	
piping is above the constructability co	102, Detail I, the GLS/GLR manifold the TG06 SOW demarcation line. Due to concerns of the manifold, is it acceptable ifold at a lower elevation below the TG06 in line?			GEO/GEIX IIIa	illioid pipilig per	W 3002.		
Please advise.								
SHIMM000-0012	BGP - Monitoring Instrument Penetrations		Closed	03/11/2013	03/21/2013	03/11/2013	Potential	lv 🗆
	Construction Company, Inc. Chris Williams	To: Webcor Construction LP	Robert Kjome			ruction LP Robe		'y
Co-Author:	Scholadion Company, inc Chile Williams	19. Webcol Construction El	Robert Rjoine	7 o o. o a 2,	· Webcoi Consti	TUCTION ET	art rejoine	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Drawin	ng: A1-8711				nce BBII's dewa	tering/piezomete		
instrument penetr monitoring instrun some of these mo Detail 3 (Picture 1 an additional, larg additional casing contract documen dimensions and d of monitoring instr	I-8711, Detail 3, the monitoring ration sleeve is to be place around the ment itself. From the field, it appears that pointoring instruments exist as drawn in I) while others seem to be placed within ger sleeve (Picture 2) casing. This occurance isn't accounted for in the ats. Please advise to this type of sleeve letail. Please note that one of these types rument sleeves is located in the first area and poured for the protection slab.					g in information f		
SHIMM000-0013	BGP - Welding for Penetration Sleeves		Closed	03/12/2013	03/22/2013	03/12/2013	Potential	ly 🗌
From: Shimmick C	Construction Company, Inc. Andy Khuu	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Consti	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI T-	0411			Reference Dra	awings: 2/S1-30	03, 5/\$1-3003, 6	6/S1-	
collar ring and cap	esponse to RFI T-0411 states that the p plate cannot be shop welded prior to d that the collar must be welded onto the			Per detail 2, 5	and 6 on sheet be field welded.	S1-3003 the ring	plates	



REQUEST:

Reference Photo: attached

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

44 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

ANSWER:

geothermal loop.

Accept Suggestion:

Please confirm that the H pile is in conflict with the

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
sleeve prior to the ma However, in the subm the Engineer clearly se that the "contract doc steel ring such that the without the ring instal collar after the mat sl- to weld the assembly is to be welded prior t most likely occur to the cutting process as state the comments to sub to RFI T -0411 clearly necessary construction	t slab pour for access purposes. ittal comments to SUB-TG0600-036,		Status	Created	Required	Allswered		Procee
CLUMMMOOD OOAA	PCD Coathormal Disease in Locking CD	CM Wall	Classed	02/49/2042	02/28/2042	02/49/2042	Detential	
SHIMM000-0014 From: Shimmick Cons	BGP - Geothermal Risers in Leaking CD: truction Company, Inc Chris Williams	To: Webcor Construction LP	Closed Robert Kjome	03/18/2013 Answered By	03/28/2013	03/18/2013 ruction LP Robe	Potential	іу
	truction company, me office williams	10. Webcoi Construction Er	Robert Rjorne	Allswered By	V-VVEDCOI COIISII	IUCIIOII EF KODE	it Kjoine	
Co-Author: REQUEST: With water leakage throughout the CDSM wall at many different locations, the likelyhood of a geothermal loop riser being laid out in the location of a CDSM wall leak is high. In the event that the Geothermal Riser is located at the same location as a CDSM wall leak, what should S3H do? Should the riser be relocated to a portion of wall that isn't leaking? If the riser is to be embedded in the wall at the location of a leak, grouting the riser back into the wall will not be possible. Please advise.		SUGGESTION:			Accept Sug Geothermal RFI v up RFI SCI-08	Meeting 3/06/20	13.	
SHIMM000-0015 From: Shimmick Cons	BGP - Shoring Beam in Sump Pit truction Company, Inc Chris Williams	To: Webcor Construction LP	Closed Robert Kjome	03/18/2013	03/28/2013 :Webcor Consti	03/18/2013	Potential	ly

SUGGESTION:



from BBII Submittal TG0300-284.1 revision 7. These are the most recent drawings SCCI has available for the actual locations of the piles. The attached drawings show the piles running vertically through 22 future Concourse

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 45 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
the Geothermal F a previous shorin	Field 1. In the pit, the g wall. There is pote with with geothermal	ump pit near J Line in ere is a H-beam from ential for this beam to loop. Is this beem to							
SHIMM000-0016	BGP - Clarific	ation of Mass Concrete Re	porting Periods	Closed	03/25/2013	04/04/2013	03/25/2013	Potential	ly 🗌
From: Shimmick (Construction Compa	ny, Inc Ben Gordon	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Robe	rt Kjome	
Co-Author:				•				•	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion.		
	specification section	n 03 30 20.3. 11.A			Record tempe	rature differenti	als per 03 30 20 3 shi with SCCIs da		
(submittal TG060 illustrates the ma	nnal Control Plan Mc 10-20 1.1 It em #033 x temperature di ffel p at approximately 8	000-0 I 1.1 pg 8), rential is reached and			теропъ.				
	temperature differen readings on a daily (tials at 6 hr intervals (24 hr) basis. Is this							
SHIMM000-0017	BGP - Conco	urse Slab Beams and Trest	tle Pile Conflicts	Closed	04/09/2013	04/19/2013	04/09/2013	Potential	ly
From: Webcor Co	nstruction LP	Lynn Kowallis	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Webcor Const	ruction LP Lynn	Kowallis	
Co-Author: Shimmick (Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: S1-2202 thro Submittal TG0300	ough S1-2210 0-284.1 revision 7				pile conflict pl	ease provide the	sheet S1-2052 for a northern dimense I line and easting	sion to	
the locations of th Drawings S1-220	2 through S1-2210,	SCCI has overlaid piles onto Contract the Lower Concourse the piles were taken			nearest nume Revise and re	ric grid line.	3		



at approximately -6.15, EAST of Grid 9 (see concourse slab drawing). The proposed top of concourse slab

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

46 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Slab beams. Please advise.								
HIMM000-0019	BGP - Foundation Wall and Internal Bracing	g Conflict	Closed	04/09/2013	04/19/2013	04/09/2013	Potential	ly 🗌
From: Shimmick (Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Consti	ruction LP Jack	son Tukuafu	
REQUEST: Ref: Sketch - SC	I-103	SUGGESTION:		ANSWER: Refer to respo	Accept Sugg	gestion: RFI RFI T-0527	.2	
foundation walls. foundation wall al conflict with the s encroach into the constructability of wall SCCI require of the wall. Conditio	attached sketch of the top of the At gridlines 1 thru 26, top of the bove the lower concourse level is in shoring level A. The A level lookouts top of the walls for approximately 8". For f waterproofing, and reinforced foundation as 12" minimum clearance above the top ons described herein do not allow top of to be constructed per Contract Plans.							
HIMM000-0020	BGP - Waterproofing and CJ Layout Conflic	t	Closed	04/10/2013	04/20/2013	04/10/2013	Potential	ly 🗌
From: Shimmick (Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Kirk Nielsen	Answered By	:Webcor Consti	ruction LP Kirk	Nielsen	
Co-Author:								
and the attached bottom ofthe 2nd approximately -5. drawing). The proto be -5.42, WES waterproofing systimension neede 1 '-11" (see attack	Al-2203 and Sl-3201ofthe Contract Plans drawings. The current elevation at the level bracing lookouts is at 13, WEST of Grid 9 (see concourse slab poposed top of concourse slab elevation is ST of Grid 9. Per the WPM-1 stem, the minimum overall tie-in ad for the succeeding lift is approximately hed waterproofing drawing). The current cottom of the 2nd level bracing lookouts is	SUGGESTION:		11/27/12, revis accommodate	se the proposed	#SHIMM000-00 locations of the th all of SCCI's v	CJ's to	



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 47 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
1 waterproofing s dimension needed 1'-11" (see attack locations, the min in to the next lift of the current location for the location for the location and eleved as wall lift and the 3 lift drawing). With is virtually no root to occur. SCCI futhe location of the seeds at lift drawing of the location of the location of the location of the location needs at lift drawing or location of the location	bbe -7.67, EAST of Grid 9. Per the WPM- system, the minimum overall tie-in ed for the succeeding lift is approximately ned waterproofing drawing). In both nimum required dimension (1 '-11") to tie- of waterproofing can not be reached with on of the 2nd level bracing lookouts and ncourse slab elevations. SCCI is restricted e CJ due to the absolute concourse slab ration. imilar conflict exists in the 1st foundation and level of bracing lookouts (see 1st wall in SCCI's current location of the CJ, there im to allow for the waterproofing overlap ally understands its freedom to manipulate e CJ's by lowering it approximately 2'. lly change BBII's rebracing plans.							
Please advise.								
SHIMM000-0021	BGP - Differential Movement in Waterp	roofing Layers	Closed	04/26/2013	05/06/2013	04/26/2013	Potential	ly 🗌
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
the Contractor is incorporate "prov reference the cor criteria for the dif	t's response to Submittal TG0600-023.2, to install the waterproofing system to visions for differential movement". Please intract documents that specify the design ferential movement of the structure. a specification or drawing note that			differential mo as required by	note states "ii	ncluding provision adjacent comportant	onents	
SHIMM000-0022	BGP - Testing of WPM-1 Seams		Closed	04/26/2013	05/06/2013	04/26/2013	Potential	ly 🗆
	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Robert Kjome			ruction LP Robe		

SUGGESTION:



From: Shimmick Construction Company, Inc Ben Gordon

Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

Webcor/Obayasiii Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 48 of 1053 11/05/2013

Time:
Job:

Answered By: Webcor Construction LP Kirk Nielsen

Accept Suggestion:

ANSWER:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Reference Specification: 071210 - 3.5.B The Specifications call for testing of "seams" independently by Applicator and Manufacturer. In the waterproofing preinstallation meeting on 3/27113, the Manufacturer (Laurenco) and the Architect stated that testing of seams is not required as this is not a single-ply system. Please define "seam" and advise if testing of seams is required or not, and if it is, then to what extent?				e any specified v	emains unchange vaterproofing com		
SHIMM000-0023 BGP - Carlisle Miradrain 9900 Drainage	Composite	Closed	04/26/2013	05/06/2013	04/26/2013	Potential	ly 🔲
From: Shimmick Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Robe	rt Kjome	
Co-Author:							
REQUEST: Reference Specification: 07 12 10 2.5.C This section calls for "Drainage Composite: Three dimensional plastic rolls bonded to a geotextile on one or both faces: Mirafi Miradrain 9900, or equal with a minimum compressive strength of30,000 psi." The waterproofing membrane manufacturer (Laurenco) states that the specified product "Miradrain 9900" no longer meets the performance requirements of the specifications since the woven filter fabric is no longer bonded at every dimple of the molded polystyrene core. Best Contracting has contacted the drainage composite manufacturer and they have confirmed that the woven filter fabric is bonded at every fourth dimple. Best Contracting has also performed a shop "mock up" using the aforementioned composite		of Carlisle. If I submit a requ		s available upon int to use Miradra on pursuant to			
which resulted in complete separation and failure upon the installation of the waterproofing membrane. Please provide direction. SHIMM000-0024 BGP - Additional Fasteners for Protectic	n Roard Installation	Closed	05/02/2013	05/12/2013	05/02/2013	Potential	

To: Webcor Construction LP

SUGGESTION:

Kirk Nielsen



Reference Specification: 23 57 34

Reference Drawing: A1-8712, M1-5002

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Sleeves as shown on A1-8712 and M1-5002 are a part

of S3H's scope of work. The grey SOW line on M1-

49 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

Number	Cubiast		Status	Date Created	Date Required	Date Answered	Cost	Drago
Number	Subject		Status	<u> </u>	Nequireu	Answered	<u>Impact</u>	Procee
Section 07 12 10 protection board to driven fasteners a vertical joints. Ma The manufacturer (Laurenco) has in and relaxation of requiring intermed	Spec Section 07 12 10 - 3.2.D. Spec - 3.2.D states the following: "Secure 1/4" to flanges of soldier piles with powder and washers spaced 12 inches o.c. Butt aximum joint width : 1/4"" r of membrane waterproofing system idicated that due to "out of plane" piles, CDSM substrate requirement, they are diate fasteners to hold the 1/4" protection CDSM wall. Please review and advise.			CDSM surfactions comments due the concern of the mitigated of the concern of the mitigated of the concern of the mitigated of	th John Laurence the John Laurence tring the 4/30/13 over the protection to two methods: te fasteners when placing construction board to	waterproofing me on board deflection crete SCCI does excessively defle	ed. eeting g can not ct.	
SHIMM000-0025	BGP -Request for Revit Model		Closed	05/02/2013	05/12/2013	05/02/2013	Potential	ly
From: Shimmick (Construction Company, Inc. Andy Khuu	To: Webcor Construction LP	Robert Kjome	Answered B	y:Webcor Const	ruction LP Robe	rt Kjome	
Co-Author:								
Structural and Ard designers. The 3I only and will not be understands that the project design SCCI accepts the subject to change	ng access to the latest, most up to date chitectural Revit models from the D database would be used for reference be used for construction. SCCI the 3D Database is subject to change as a evolves. As a user of this 30 database, a risk and acknowledge that the data is a SCCI also acknowledges the terms and ad in the Transbay Transit Specification	SUGGESTION:		ANSWER: Not proper us Please	Accept Sug	gestion: per specification s	ection	
SHIMM000-0026 From: Shimmick 0	BGP-Geothermal Field Riser Pipe Termin Construction Company, Inc John Berggren	To: Webcor Construction LP	Closed Robert Kjome	05/13/2013 Answered B	05/23/2013 y :Webcor Const	05/13/2013 ruction LP Robe	Potential	ly
Co-Author:			•				•	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



a continuous L8x4x1/2 in lieu of the 1'-2" base. Please provide the elevator post locations if an elevator manufacturer has been selected? If not, SCCI is

Webcor/Obayashi Joint Venture

Webeonobayasin John Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 50 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
(copies attached Reference is ma attached), the hi and the SOW de S3H Inc. will terr	s as shown on A1-87' I) are not part of the S Ide to Note 1 and Note ghlighted notes in Dete marcation line in Dete minate pipe at grade a pressure guage to be	3H's scope of work. e 2 on M-0006 (copy tail2 on A1-8712, ail A on M1-5002. as shown in Detail A			continues into Detail 3/M1-50	the manifold sle 002 also distingu	e geothermal rise eeves uninterrupt uishes the geothe t of the TG06 sc	ed. ermal	
HIMM000-0027	PCP Tompor	atura Broha Slagva Banatr	otion	Closed	05/42/2042	05/22/2012	05/12/2012	Potontial	
	-	ature Probe Sleeve Penetr			05/13/2013	05/23/2013	05/13/2013	Potential	іу 📗
	Construction Compar	ny, Inc John Berggren	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Constr	uction LP Robe	ert Kjome	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
stating the temporal Note 6 on Sheet the additional mediatronal mediatron line	de to RFI T-0388.0 (certure probe piping sh M-0006. Per Note 2 cechanical work shown is for reference only a G06.1 package. Pleas n intent.	all be installed per on Sheet M-0006, above the and was not			does not exclu		se. The demarca hanical work refe rmal piping.		
[S3H RFI No. 02	28]								
HIMM000-0028	BGP - Mat Slai	b Elevator Opening Embed	I Dimensions	Closed	05/10/2013	05/24/2013	05/15/2013	Potential	ly 🗌
From: Webcor Co	onstruction LP	Ian Corcorran	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Constr	ruction LP Robe	rt Kjome	
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref. RFI T-0439	.1						I not be awarded	а	
post locations sh	e to RFI T-0439.1 stat nall be coordinated wit The response has a se	th elevator				-			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 51 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Procee
requesting to use	e continuous embeds. Please advise if e.							
SHIMM000-0029	BGP - High Congestion Mockup Revit File		Closed	05/20/2013	05/30/2013	05/20/2013	Potential	ly 🗌
From: Shimmick	Construction Company, Inc Jesse Dillon	To: Webcor Construction LP	Robert Kjome	Answered By:	Webcor Consti	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
high congesting a Gerdau to detern	sting the 3D Revit model of the isometric area shown in SI-3208/DI. This will allow nine conflicts prior to fabri cation of rebar mock up. Please provide Revit file a.			Progress Revit for review and	computer mod comment on Model to the Con	'The updated In- lel will be issued ay 31, 2013". TJ tractor for inform	PA will	
					the model as ren recieved and	necessary once t reviewed.	he	
SHIMM000-0030	BGP - Lower Concourse and Mezzanine Plu	umbing	Closed	05/21/2013	05/31/2013	05/21/2013	Potential	ly
From: Shimmick	Construction Company, Inc Jesse Dillon	To: Webcor Construction LP	Robert Kjome	Answered By:	Webcor Consti	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
and PI-2202 IFC. have the callouts REFERENCE Of do not contain th circumstance app Mezzanine level PI-2211 and PI-2 plumbing depicte Below Grade Pawork package incarea drains, floor	e attached Contract Drawings PI-2202 IFB Both IFB and IFC plumbing drawings "BELOW GRADE PACKAGE FOR NLY", "NOT FOR CONSTRUCTION" and e Architect's/Engineer's seal. This plies to all Lower Concourse Level and Plumbing Contract Drawings, PI -2202 to 252. All Lower Concourse and Mezzanine ad in these drawings is excluded from the ckage. The scope excluded from SCCI's cludes, but is not limited to, floor drains, sinks and cleanouts. Please inform SCCI re package this scope is contained for			mezzanine inc the contract dr package conta	ludes all sleeve awings and spe ining the floor o	wer concourse a sand openings a scifications. The strains, area draingone out to bid.	as per future	



From: Shimmick Construction Company, Inc Andy Khuu

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Webcor Construction LP Michael Spillane

52 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
HIMM000-0031	BGP - S-3 Wall Stirrups Preassembled U	Using IDEA Machine	Closed	06/04/2013	Accept Suggestion: Output	Potential	iy	
From: Shimmick	Construction Company, Inc Andy Khuu	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI	T -0340 and T -0526			Voided per SC	CCIs request.			
response to RFI response, appro 3 stirrup in lieu o 0526. Please co same criteria as use the machine	ovided to utilize the IDEA machine per the T-0340. Since the issuance of this wal has also been provided to utilize an S-of the T-9 hairpin within the walls per RFI infirm that it is acceptable, following the outlined in the response to RFI 0340, to e/welded holding wires to pre-assemble the ne wall reinforcing.							
HIMM000-0032	BGP - RFI 448.5, Dimension From Grid	Line to Extent of Change	Closed	06/20/2013	06/30/2013	06/18/2013	Potential	iy 🗌
From: Shimmick	Construction Company, Inc Andy Khuu	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Mich	ael Spillane	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI				WR1 west of	GL -06 as show	on drawing S1-2	060	
utilize Option 1 b dimension for re reinforcing detail nearest grid or c	onse to RFI 448.5 the proposal indicates to between CDSM piles #733 - #772. No inference has been provided to layout the las. Please provide a dimension from the column line to the Eastern most extent in hange is required per RFI 448.5.			with the modil	еа теппогсетте	ni detail option C	ne	
HIMM000-0033	Foundation Wall Conflicts with Level A	Bracing	Closed	06/24/2013	07/04/2013	06/24/2013	Potential	ly 🗍
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Robert Kjome	Answered By	:Webcor Const	ruction LP Robe	ert Kjome	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
RFI T-0527.1, W with the shoring	awings CJ-35 and CJ-66. Per response to /all lifts W326 and W350 are still in conflict level A. n how to proceed.			See attached				

To: Webcor Construction LP

Michael Spillane



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 53 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author: Shimmick	Construction Company, Inc Ben Gordon							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI Bracing Elevation	T-0527.1 - BSE -Revision to Zone 4 ons Level A-D				remove the 4 from the TG06			
"The TG06 Trangle to include howe waterproofing waterproofing waterproofing waterproof work." response is to eather upper CJ as	to RFI T-0527.1, W/0 included a comment de Subcontractor is to provide a credit for, ever not limited to, the concrete rebar and which has been deleted from the TG06 Please confirm if the intent of the RFI eliminate the 4th lift ofwall reinforcing above is lowering the elevation of the CJ does not entity of the reinforcing required.							
HIMM000-0035	BGP - 'Intermediate' Base of Sleeve Flat Mu	ıd Slab Elevation for 8 Penetratio	ons in F Closed	07/08/2013	07/18/2013	08/16/2013	Potential	ly 🗌
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Const	ruction LP Jack		, _—
Co-Author:				•				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: SK-	2676,S			The elevations	. •	tion sleeves have	been	
there will be 8 a detail per SKA- RFI#0479). Please provide	ipt of RFI T-0479.1 response outlining that additional areas requiring slab penetration 2676 and SKA-2677 (issued in original the elevations of 'intermediate' base of contal mud slab area for all 8 trestle piles, ge piers.			(W/O), Scott E	Bunnell (SCCI) a	ween Jose Verdu and Don Muns (T elevations for Zon	CCO).	
HIMM000-0036	BGP - Area 3 Room Layout Discrepancies		Closed	07/16/2013	07/26/2013	07/16/2013	Potential	lv 🗀
	Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu			ruction LP Jack		
Co-Author:	, ,,			•				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
2013. This ASI area 3 mat slab configuration ar	ipt of CR #071- ASI #104 on Jun 26th, #104 changes the layout of the room in b. This changes the partition wall and the dowels coming out of the mat slab d for the construction of the partition wall				struct and insta	Ill per RFI T-0612		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

54 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject		Status	Created	Required	Answered	Impact	Proceed
2nd, 2013, aft response, the well as update locations for the	n recipt of RFI response to T-0612 on July er the issuance of ASI #104. In this RFI layout of the rooms and partition walls, as ad wall, door opening, and control joint the B2 Emergency Electrical Room B2880 1214 are altered with the issuance of SKA-							
control joint Solayout as show	n which room layout, door opening, and CCI is to construct and install, especially the wn on A1-9214. (E.G: Please provide the dated drawings)							
HIMM000-0037	BGP - Mass Concrete Specifications		Closed	07/17/2013	07/27/2013	07/17/2013	Potential	by \square
	·	_						- 🗀
	ck Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Constr	ruction LP Jack	son Tukuafu	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
CTL Group, da analysis of the Differential Lir	nce attached letter published by Jon Feld, ated July 8, 2013. This letter contains further b "Perfomance-Based Temperature nit", also refered to as "Strength-Based Difference Limit", for Mat Slab mix #			by George Me requirements revise and res	al requirements tzger appear to are approved via	set forth in RFI T be satisfied. Pro a submittal. Plea ittal package TG0	ocedural ise	

Temperature Difference Limit", for Mat Slab mix # 1557204.

This additional analysis was prepared per RFI response T-0585, in which the reviewer found this PBTDL method to be acceptable based on satisfying four (4) conditions. See below:

- I. The attached analysis was specifically developed for mix #1557204
- 2. SCCI confirms that all remaining mass concrete specification requirements shall still apply.
- 3. Shimmick Construction will be providing field quality control and the required concrete maturity measurements through the "Concrete Maturity HardTrack System". Reference attached HardTrack system data and example concrete maturity data. This system has been procured by Shimmick Construction, and has been sucessfully tested



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 55 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
umber	Subject	Status	Created	Required	Answered	Impact	Proceed

To: Shimmick Construction Comp Ben Gordon

on multiple mock-ups.

4. It is confirmed that Shimmick Construction shall remain responsible for providing a mat foundation that meets requirements of the contract documents.

Please confirm conditions have been satisfied. This analysis will be submitted as a supplement to the Mass Concrete Plan (TG0600-20 1.1)

SHIMM000-0038 BGP - Geothermal Loop Excavation in Zone 4

Closed

07/19/2013

07/29/2013

07/19/2013

Potentially

Answered By:Webcor Construction LP Jackson Tukuafu

Co-Author:

REQUEST:

From: Webcor Construction LP

QUEST: SUGG

Jackson Tukuafu

Per discussions in the Trade subcontractor meeting with Turner, BBII, and WOJV, it is apparent that BBII has been directed to demo the buttress shafts in Zone 4 to bottom of mud slab elevation. Per the geothermal trenching and backfill specification 31 23 34, 1.1.A.1, the only slot excavation in CDSM/concrete is to be in the wall panels. The specification does not require slot excavation/demolition for the horizontal field loops. Per Plan sheet GT-5201, the buttress shafts are to be demolished to a maximum of 4' below subgrade elevation (bottom of mud slab). The geothermal pipe is to be installed at 15" below the bottom of mud slab elevation, well within the 4 ' below mud slab demolition elevation. Please confirm that the geothermal loops in zone 4 will be trenched in soil like the rest of the project and as detail din the geothermal trenching and backfill specification (31 23 34).

SUGGESTION:

ANSWER: Accept Suggestion:

BBI's contract drawing GT-2103 and the Geothermal shop drawings (TG0600-065), indicate the excavation and demolition of the buttress is set to final subgrade elevation 41'-5" or bottom of the mud slab. SCCI¿s interpretation on plan sheet GT-5201 as it relates to demolition is incorrect. The note "...shafts shall be maximum 4 feet below, maximum 2 feet above subgrade elevation" is in reference to the parameters set for the concrete (high strength) being placed in relation to the CLSM mix. These parameters are not set as demolition or excavation bench marks.

SCCI to proceed with geothermal loops in Zone 4 as shown in the approved shop drawing TG0601-065 and conform to specification section 31 23 34. SCCI to remit request for backfill and excavation requirements per specification 31 23 34 at buttress locations.

SCCI to consider the following when re-submitting:
Does SCCI plan to demo the buttress shafts down to
the required 15",re-fill the area and meeting
compaction requirements? or Does SCCI intend to
seek a design variance by slot excavating through the
buttress' and seek back-fill requirements within the
buttress from the design team?



2. For dewatering well #3- please provide detail for

blockout for reinforcing at shearwall

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

56 of 1053 11/05/2013 10:53 AM

30100

Time:

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact I	Procee
SHIMM000-0107	BGP - Concourse Slab Embeds and Trest	le Pile Conflicts	Closed	04/09/2013	04/19/2013	09/20/2013	Potentially	
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Consti	ruction LP Jack	son Tukuafu	
Co-Author:								
REQUEST: Ref: S1-2202, S1	-2203 and S1-2205	SUGGESTION:			Accept Sugg WOJV RFI T-7	726. Further cod	odination	
and S1-2205 with locations where the	attached drawings S1-2202, S1-2203 n pile locations overlaid. There are three he trestle piles interfere with the nblies at elevator and escalator			io roganoa to c	anayize outer o	Sillioto.		
SHIMM000-0141.1	BGP - Moment Beam and Pile Conflicts		Open	07/29/2013	08/08/2013		Potentially	
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	•			
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: SCI R	RFI-141, RFI T-0510.1							
The response to the MFB conflict a made clear this so	SCCI RFI # 141 and W/O RFI T-0510.1. T-0510.1 provided details for rectifying at internal Bracing Pin Pile #8. It was olution could only be used at Pin Pile #8. provided for the additional five MFB a SCCI RFI #141.							
	formation for the five additional MFB and wn in SCCI RFI# 141.							
SHIMM000-0203.1	BGP - Blockout -Reinforcement and Size	Detail Needed at Dewatering Well a	and Co Closed	07/19/2013	08/02/2013	08/27/2013	Potentially	
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	Webcor Consti	ruction LP Jack	son Tukuafu	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
As a follow up to	RFI#T0584 response:			Refer to respo	nse to RFI T-05	84.2.		
block out. Please	GR9 on S-005 is not applicable for wall provide block out detail for the the partition wall for blockout for:							



tto the interioor walls. Additionally, dimensions showing th

Webcor/Obayashi Joint Venture

Webeel/Obayasiii 30iiit Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 57 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Date Required Answered	Cost Impact Procee
Please provide dewatering wells.	e size and extent for blockouts for all 4					
SHIMM000-0204.1	BGP - Locations of Electrical Outlets, Ec	quipment, and Fixtures	Closed	07/31/2013	08/10/2013	Potentially
From: Shimmick (Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
Reference: Spec	Section, 34 05 34					
of the equipment						
	nat these dimensions are acceptable so can be laid out correctly.					
SHIMM000-0204.2	Locations of Electrical Outlets, Equiptme	ent, and Fixtures.	Closed	08/23/2013	09/03/2013	Potentially
From: Shimmick (Construction Company, Inc Chris Williams	To: Webcor Construction LP	Jackson Tukuafu	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
	hed the revised layout for Electrical Room onfirm that the layout is acceptable.					
SHIMM000-0204.4	BGP - Locations of electrical Outlets, Eq	uipment and Fixtures	Accepted	09/12/2013	09/22/2013	Potentially
From: Shimmick (Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
layout for the Ele	onse, please find attched the revised ctricl Room B2221. This revised layout sions of the conduit locaitons in respec					



REQUEST:

Webcor/Obayashi Joint Venture

Page: Date:

Job:

58 of 1053 11/05/2013

Time:

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

JOINT VENTURE 30100 -			sbay Transi	it Center I	Project			
umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
eroom locaiton in please advise if it	respset to the grid lines are shown. is acceptable.							
HIMM000-0233.1	BGP Bracing Removal Sequence - Area 5-	13	Open	07/30/2013	08/09/2013		Potentiall	у 🗌
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
SCCI (Data date of predecessor to "V 4000)- in each are - Bracing Remova predecessor to "V 4110)- in each are - Bracing Remova predecessor to "V 6010) in each are Based on the curr to be modified to each area, separa E.g. Any walers so during removal of waterproofing instead to each area level B, C and D. please find attach	al- Level C" (BGSOX-4100) is the Vall Waterproofing- 2nd lift" (BGSOX- ea al- Level B" (BGSOX-6000) is the Vall Waterproofing- 3rd lift" (BGSOX-	SUGGESTION:		ANSWER:	Accept Sugg	estion:		
HIMM000-0242.1 From: Shimmick C	BGP - 100% CD Phase 1 Documenation Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Accepted Jackson Tukuafu	08/22/2013 Answered By:	09/01/2013		Potentiall	у 🗌

ANSWER:

Accept Suggestion:

SUGGESTION:



Co-Author: Webcor Construction LP

REQUEST:

Jackson Tukuafu

SUGGESTION:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: Time:

Job:

Accept Suggestion:

ANSWER:

59 of 1053 11/05/2013 10:53 AM

30100

Number	Subject		Status	Date Created		Date Answered	Cost Impact	Proceed
refers to "100% C for the drawings t SCCI does not ha following drawing- pricing of ASI#10 A 1-2224-2231 A 1-2844-2846, 2								
SHIMM000-0252.1	BGP - Geothermal Loop Excavation in Z	one 4	Accepted	07/30/2013	08/09/2013		Potentiall	у 🗌
From: Shimmick (Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:	:			
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggest	tion:		
SCCI received the excavation of the response directed senction 31 23 34 that cover buttres loops. SCCi is aw required for the ga geothermal spe dempition for the 31 23 34, Section gound excavation	Section 31 23 34 e response to RFI-252 regarding the geothermal loops in Zone 4. The d SCCI to conform to specification 4 regarding the ptential section 31 21 34 so concrete demolition for the geothermal vare of the CDSM wall excavation eothermal field risers, but is not aware of ecification requiring buttress shaft geothermal loop trenches. Specificaion in 3.2 is very clear i the ful scope of the in soild and wall riser excavation in sont cover trenching in buttress shaft							
concrete.	o not oover trenoming in buttiess share							
Please advise.								
SHIMM000-0255	BGP - Plumbing Scope Clarification ASI	104	Closed	07/26/2013	07/27/2013 0	7/26/2013	Potentiall	у 🖂
From: Shimmick (Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:	:Webcor Constructi	on LP Jacks	on Tukuafu	



s

Construction (IFC) drawings to the newly issued ASI #104 drawings. This RFI requests for information regarding

TG06's scope of work that may or may not be added

Please provide clarifications of TG06's Scope per ASI

S1-7005, S1-7101, S1-7111, S1-7600, S1-7602, S1-7660,

through the issuance of ASI #104 due to removed

notations "For Reference Only " or similar.

S1-9000, S1-9050 and S1-9051.

#104 in the following drawings (also attached):

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 60 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
See attached may 6001. PI-6001 R the noted drawing notations in the classification of the scope of TG06 via Please clarify the	ne Designers to significantly change the		1. Detail 1, 2 #104) depict are not applic 2. Detail 4/P the floor clea the TG06 part the concours detail is calle 3. Detail 6/P concourse signature 11 a pump details B2230 and B includes emb wall, pony ware	typical standpipe cable to the TG0 1-6001 (ASI #10 n-out cover. Thickage where the e and mat slab led-out for "floor c 1-6001 is applicated. Typ. and 12 of sheet titled "Detail At 2442." The appleded pipe in the all and pit openin	14) depicts a change of the second of the se	etails ge in ple to ther at fic np G06 d pony	
SHIMM000-0261	ASI#104- TG06's Scope Clarification	Closed	07/26/2013	08/05/2013	07/26/2013	Potentia	lly 🗌
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor/Obayashi Joint Ventu Spencer Sayles	Answered B	y:Webcor Const	ruction LP Jacks	on Tukuafu	ı
Co-Author:		, , , , , , , , , , , , , , , , , , , ,					
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:		
There are multip	ole changes beween the Issued for		Per the attac	hed drawing:			

Per drawing S1-7005 (ASI #104), exclude all steel/stair components, all other details are applicable. Show credits for wall removal etc. accordingly in pricing reviiew of ASI #014.
 Per drawing S1-7101 (ASI #104), the only

2. Per drawing \$1-7101 (ASI #104), the only applicable detail is 1/\$1-7101. All othe detail are shown to be on the ground level, second level and bus deck level. Please note, there will be no poured in place walls on the concourse level in the TG06 package; however, SCCI will provide the applicable dowels to accompodate the tie-in.

Per drawing S1-7111, the details in question are on the ground, second and bus deck level. Not applicable



From: Shimmick Construction Company, Inc Ben Gordon

Webcor/Obayashi Joint Venture

ni Joint Venture

Page: Date: Time:

Job:

Answered By: Adamson Associates, Inc George Metzger

61 of 1053 11/05/2013 10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
				metal stair rel 5. Per drawir Slab On Meta 6. Per drawir applicable to 7. Per drawir TG06 packag 8. Per drawir 9. Per drawir	ated. Not applied at St. 7602, see all Deck. In St. 7660, all of TGO6 trade pace at St. 9000, the ewill be dowels ag S1-9050, see ag S1-9051, the ly if this detail of	item #4. Details a details in question a ckage. only applicable so for CMU tie-in	are ppe to	
SHIMM000-0263	BGP - Revised Attached Method of Nels	son Studs to the Elevator Pit Embed	ded Anį Closed	07/24/2013	08/03/2013	08/05/2013	Potential	ly 🗌
	BGP - Revised Attached Method of Nels	son Studs to the Elevator Pit Embed To: Webcor Construction LP	ded Anı Closed Jackson Tukuafu			08/05/2013 ociates, Inc Georg		ly
			•					ly
From: Shimmick C			•			ociates, Inc Georg		ly

To: Webcor Construction LP

Jackson Tukuafu



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 62 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:								
REQU	EST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refere	ence: Drawing S1-3001, Spec Section 03 30 20				r proposed lap	splice length is where the conflict	oviete	
wall ve	potential conflicts exist between the typical shear ertical dowels and the 36" OD shoring Pipe Struts in . See attachement for locations of conflict.			ассеркавіе оп	ny at locations v	where the conflict	exists.	
	on Detail A shown in S1-3260, the typical shear erts will be lap spliced.							
wall re	e schedule in Detail 1-S1-3001, the #9 vertical shear inforcement requires a 63" lap splice, which places of dowel at elevation -30'-5".							
shown	enterline of Level D diagonal bracing atop Area 1 is to be at EL -29'-0" and the bottom of the 36" OD trut at level D is at EL -30'-6".							
	pe strut will potenially encroach on the shear wall s since the vertical spacing is #9 at 10" OC.							
Please locatio soultio	e confirm that a 60" lap splice is acceptable at ns where conflicts exist, if not please provide ns.							
HIMM000-0	265 BGP Embedded Conduits in Mat Slab fo	or the Light Column	Closed	07/24/2013	08/03/2013	08/02/2013	Potential	lv 🗆
	Shimmick Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu			ociates, Inc Georg		.,
Co-Author:	, , , , , , , , , , , , , , , , , , , ,		ouchoon runualu	,	, , , , , , , , , , , , , , , , , , , ,	oo.a.oo,o	goot_go.	
REQU	EST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please 4105.	e reference attached drawing E1-2205 and E1-			No, there are concourse sla	no embedded c	onduits required i	n lower	
electri	e attached lighting plan drawings, there are no cal conduits shown to be embedded exclusively for the column on drawing S1-6005.							
light co	e confirm that there are no conduits required for the column in both the concourse slab and mat slab or e the location, route and size of the conduit at each							



Scope.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

63 of 1053

Date: Time:

10:53 AM Job: 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
HIMM000-0266	BGP - Temporary Perimeter Lighting		Open	07/24/2013	08/03/2013	07/30/2013	Potentially	<i>,</i> \Box
From: Shimmick C	construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Const	ruction LP Jack	son Tukuafu	
Co-Author:								
6/11/12 (attached) drawings are to be to the start of the begin? Are the draperimeter lighting	e required documents or clarify when	SUGGESTION:		but not limited necessary for lighting along and installed interfere with by the worker code-minimum sufficient foot the work at al SCCI is response.	d to, product date installing and methe perimeter of in such a manner the structure and the public mething at egrecandle lighting I times.	all information in a and layout drawal intaining tempor in the site at 50'-0 are that it does not at all walkways, as required to pess paths, as we evels to safely paining the temporal intil completion of	wings orary " O.C. t s utilized orovide ell as erform	
SHIMM000-0267 From: Shimmick C Co-Author:	BGP - Mat Slab Conduits Construction Company, Inc Chris Williams	To: Webcor Construction LP	Closed Jackson Tukuafu	07/24/2013 Answered By	08/03/2013 /: Adamson Asso	08/13/2013 ociates, Inc Geo	Potentially rge Metzger	<i>'</i>
and Detail 5 on E1 on the columns ar indicates an embe the columns at Lin Detail 5 on E1-60 stubbed up 12" at shows all conduits in the Mat Slab are of the TG06.0 con TG06.0 scope. 1. Please clarify if be embedded in the slab at the face of 2. If the conduits a columns please principle in the columns please p	duit details on sheet A1-9204/Detail 1 1-6001 regarding the electrical conduits e in conflict. Detail 1 on A1 -9204 edded junction box in the long portions of the D.8 above the Train Platform Level. 101 indicates all conduits are to be the face of the column. This Detail 5 to (shown dashed) above the 12" stub up the to be installed in future phases outside etract. The columns are part of the these junction boxes and conduit are to the columns or stubbed up through the the each column at all four (4) locations and boxes are to be embedded in the rovide a revised embedded conduit bonduits as part of TG06 Below Grade	SUGGESTION:		applies only to sides) of the conferment of the conduit and be finished fluther of the conduits.	o the flat surface columns along Gon details 1 & 2 led boxes and cooxes such that the finished west sides of the have surface may be free to detail 1 columns in the Bare typically surface to surface the finished the finished west sides of the have surface may be free to detail 1 columns in the Bare typically surface.	letails on A1-920 letails on A1-920 letails on A1-920 let D.8 of Platform on A1-9204) and onduits. Locate the device facepled column cladding columns indication ounted junction	uth m 2 d shall he ates will ng. ated on boxes boxes	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 64 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
SHIMM000-0268	BGP - Column and Reshoring Struts Co	olumn and Reshoring Struts Conflict		07/26/2013	08/05/2013	09/20/2013	Potential	ly 🗌
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Const	ruction LP Jack	son Tukuafu	- Ш
Co-Author:								
show re-shoring st columns. In order will need at least 3 face and the struts Please confirm tha	reas on the attached re-shoring drawings truts against some of the oval shaped to construct the concrete columns SCCI 30" of clearance between the column	SUGGESTION:		are in conflict	or in close prox ase submit as-b	gestion: on of specific struinity to formwork uilt of all location	is	
SHIMM000-0269	BGP - 1st Street 48" Bridge Pile Asbuilte		Open	07/25/2013	08/04/2013	07/31/2013	Potential	ly
	Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Const	ruction LP Jack	son Tukuafu	
Co-Author:								
drawing attached) exceed the 48" dia Sheet S 1-3003. T each temporary br 48" CIDH concrete of the slab penetra surface profile var tolerance required an as built of the 4 consequence the current conditions	dge piles (00 1 through 010 in the under the 1st Street temporary bridge ameter required per Detail 6 on Plan The varying diameter of ridge pile is the result of the pile being a e pile instead of a steel pile like the rest ations. As typical of a CIDH pile, the ries much greater than the 1 /2" gap I per Detail 6 on \$ 1-3003. Attached is 48" piles with their varying diameters. In penetration sleeves will not fit the of the 48" piles.	SUGGESTION:		depicts the CI the the Caltral no reference t ascertain any proceed as sh with the CIDH SCCI has ten	DH pile diametens specification o tolerances; the diameter larger lown on the BBI pile at 48" in di (10) sleeves fal	drawing SH-510 at 48". Our revon CIDH piles in erefore, we cann than 48". SCCI and contract dra ameter. Please oricated and onsication at this time.	view of dicate ot to wings note, te. The	
Please advise hov	w to proceed.							
SHIMM000-0270	BGP - Clear Cover to Mat Reinforcing at	CDSM Pile Encroachment	Closed	07/30/2013	08/09/2013	08/07/2013	Potential	ly 🖂
From: Shimmick C	Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Adamson Asso	ociates, Inc Geor		- 🔲
Co-Author:							-	
REQUEST: Reference: Drawir	ng S1-3201, Spec Section 03 30 20	SUGGESTION:		ANSWER: Encroachmen	Accept Sug			



raker base plate of RKB#15 lands over the floor cleanout. Top of floor cleanout is supposed to be set to FFE (EL -

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

65 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Per Section 1 on S1-3201, the mat slab reinforcing is shown with 6" of clear cover from the outside face of the concrete wall. When the outside face wall and mat foundation step in and out due to CDSM encroachment, the 6" clear dimension shown on 1/S1-3201 will be encroached upon. Please confirm this is acceptable. This would apply in any area where the wall thickness is being reduced due to encroaching CDSM Pile.			the foundatio face. To avoi the mat slab wall shall not note that the within the fou is illustrated i	n wall vertical red this conflict, of reinforcing and be less than 4". condition at the indation walls is in detail 1/S1-33 If the question in	bar does not continiforcement at the lear dimension be couter face of the couter face of the couter face of the couter face of the couter different. That co 02 of the constructuded in this RFI	e outer etween concrete nce, nns ndition ction	
HIMM000-0272 bgp - Pin Pile Encroachment		Accepted	08/23/2013	09/02/2013		Potential	ly 🗌
From: Shimmick Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered B	y:			
Co-Author:				-			
REQUEST:	SUGGESTION:		ANSWER:	Accent Suc	gestion:		
See attached photo.	0000 <u>1</u> 011011.		AITOTTEK.	Accept oug	igestion.		
Pin pile No. 6 is encroaching into the future RCW. This RCW is not part of TG06 package, but the form savers fo rfuture walls are. With the pin pile in the way SCCI will not be able to install form savers in the area of encroachment.							
Please advise.							
HIMM000-0274 BGP - Rebracing Conflict RKB 15		Open	08/15/2013	08/25/2013	08/15/2013	Potential	ly 🔲
From: Shimmick Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered B	y :Webcor Cons	truction LP Jack	son Tukuafu	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: PSK-2022, Spec Section 22 13 01			Reference: A	ttached RFI# PE	BA-172		
Please see attached.					esponse from PB noted in the RFI.	&A that	
After performed layout of the drainage system in the mechanical room SCCI has discovered that the reshoring							



up the sloped plane on all sides, and the horizontal

placement will stop at the top edge of the pit.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

66 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

consider, include but not limited to:

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	3" above the top of mat slab. Floor location will be protruding into the raker's							
Please advise	on how to proceed on this matter.							
SHIMM000-0275 From: Shimmicl	BGP - Rebracing Conflict RKB 16 k Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Open Jackson Tukuafu	08/15/2013 Answered By	08/25/2013 y: Webcor Const	08/15/2013 ruction LP Jack	Potentiall son Tukuafu	y 🗌
REQUEST:	K-2022, Spec Section 22 13 01	SUGGESTION:		ANSWER: Reference: R	Accept Sug FI# PBA-172	gestion:		
mechanical roo raker base plate of floor drain is which is 3" abo	d layout of the drainage system in the om SCCI has discovered that the reshoring e ofRKB#l6 lands over the floor drain. Top supposed to be set to FFE (EL -35.42) we the top of mat slab. Floor cleanout at II be protruding into the raker's base plate.				ne internal RFI re cer to move as n	esponse from PB oted in the RFI.	&A that	
Please advise	on how to proceed on this matter.							
SHIMM000-0279	Placing Protection Slab on Sloped Surfa		Open	08/21/2013	08/21/2013	08/21/2013	Potentiall	ly
Co-Author:	k Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered by	y:vvebcor Const	ruction LP Jack	son i ukuatu	
REQUEST: Please reference Due to quality a thick slab on th waterproofing n pour the sloped	ce attached sketch SK-PSOOI. and constructability concerns of placing a 4" e 45-degree plane of the pits, installed on nembrane, SCCI is proposing the option to d plane of the pits with the mat slab. In e protection from pit reinforcing steel, SCCI	SUGGESTION:		protection on workers may once the reba	the sloped surfar damage the wat ar is installed it is and perform an i	gestion: Without the pits, interproofing. Furth a very difficult to graph on the	on nermore, go inside	
will place the pr	rotection slab in the bottom of the pit, 12"			Other means	and method opt	ions for SCCI to		



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

67 of 1053

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee			
membrane not be le installation, SCCI w exceeds the 56-day	rproofing requi rement that tbe eft exposed for more than 56 days al\er ill ensure that the membrane never exposure limit. option is acceptable?			what was don 2. Use small 3. Install top pour this slop 4. Try to pou at the steep p dobe's horizo 1/2" space be more stronge	 Installing #3 rebars at 18" o.c. each way similar to what was done in the mud slab. Use smaller aggregate 1/2" instead 1". Install top and bottom protection slab first and then pour this sloped surface after. Try to pour concrete similar fashion it was poured at the steep pit mud slab. You may need to add more dobe's horizontally to allow the concrete to adhere to 1 1/2" space between bars and waterproofing. Rebar is more stronger than wire mesh for someone to climb up onto the surface. 						
SHIMM000-0282	Temporary Power from Skids #3 and #4		Open	08/14/2013	08/24/2013	08/14/2013	Potential	ly 🗌			
From: Shimmick Co	nstruction Company, Inc Chris Williams	To: Webcor/Obayashi Joint Ve	entu Spencer Sayles	Answered B	y:Webcor Const	ruction LP Jacks	son Tukuafu				
Co-Author:											
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:					
"skids #3 & #4 for to Skids #3 & #4 are n and are unavailable time fto use for tem SCCI and BAss rou	I planned to used Temporary Power emporary power needs. Currently not available and have been removed. Will these skids be up and running in porary power? If not, where should te temporary power from? Serving the power needs from Skids #1 and #2 is			Temporary p any of trade of documents. TG06 Exhibit "nearest" pov Plan drawing skids (Skid 1 projects temp methods by S limitations, in	group package T As indicated in tr A, SCCI is requiver source; further SL-001 show the , 2 and 5) to tie in corary power nee SCCI. Overcominactude but not lim	are not represen	ge Logistics (3) Ind Ircuitry g the				
SHIMM000-0283 From: Shimmick Co.	BGP - Moment and Spandrel Beams 180 D nstruction Company, Inc Ben Gordon	egree Hooks Versus 135 Degree To: Webcor Construction LP	Hooks Accepted Jackson Tukuafu	08/26/2013 Answered B	09/06/2013 У :Adamson Asso	08/30/2013	Potential	ly			

SUGGESTION:

ANSWER:

Accept Suggestion:



See attached drawing regarding the North shear wall. Due to the monolithic pours at the intersection of the shear wall, foundation wall and mat slab chamfer, there will be

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 68 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact Pr	rocee
See attached Gerdau's RFI#068, S1-3600, S1-3410 At the contractor's option, Gerdau is requesting to change the 135 degree hooks on the Moment Frame and the Sprandrel Beam sstirrups to 180 degree hooks. Please confirm this is acceptable.		with 180 degre	ee hooks on the le Beam and Sp	ce the 135 degre Lower Concours andrel Beam Pe	se		
HIMM000-0284 REBAR - Configuration at Moment Beam		Closed	08/13/2013	08/23/2013	08/13/2013	Potentially	
From: Shimmick Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Const	ruction LP Jack	son Tukuafu	
Co-Author:							
REQUEST: See attached Gerdau's RFI #066 Withing all of the Moment Frame Beam Sections found in the structural drawings, the T9 ties are depicted alternating. Gerdau is proposing to install the T9 ties within the Moment Frame Beams with all the 90 degree hoods at the bottom rather than alternating. During the installation of the mock up, it was evident that the process of hooking the 135 degree hook around the bars at the bottom of the beam was problem due to the limited clearance (1.5") and the depth of the 135 hook (4.5"). By eliminating the alternating ends and only installing the 90 degree hook end down, it would resolve this situation. Please confirm that this configuration is acceptable withing the Moment Frame Beams.	SUGGESTION:			T rejected the n	DJV and SCCI on		
HIMM000-0287 BGP - North Shear Wall Concrete Mix From: Shimmick Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Accepted Jackson Tukuafu	08/21/2013 Answered By	08/31/2013		Potentially	
Co-Author:	WEDGOI GOIISHUGHOH LP	Jackson Tukualu	,on or ou by	•			
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



REQUEST:

Webcor/Obayashi Joint Venture

Page: Date:

Accept Suggestion:

ANSWER:

69 of 1053

Time:

11/05/2013 10:53 AM Job: 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
•	concrete mix uses. The attached drawing tions of this intersection with its concrete mix.							
Please verify the location as acce	e use of these concrete mixes at this eptable.							
HIMM000-0290	BGP - Couplers for Future Construction		Accepted	08/19/2013	08/29/2013		Potentially	' [
From: Shimmick	Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference draw	rings: S1-3001, S1-3206				. •			
used for the country on Detail 4 of States that Detail 4 of States that Detail 6 of States the following: 1. As shown on savers have tin tin cap will prote 2. Whatever tar not compatible to 3. Detail 6 on States	noto of the form savers that are going to be uplers for future construction as depicted 1-3206, and Detail 6 of S1-3001. SCCI etail 6 on S1-3001 is not applicable due to the attached photo, epoxy coated form cap incorporated into coupler's body. This ect the rebar until the future construction. intended to be used with form savers is with the Grace waterproofing. 1-3001 is a detail for the slabs, where to be constructed.							
construction as set against the	to install the couplers for future shown on Det. 4 S1-3206 with form savers waterproofing membrane. Care shall be that waterproofing is not damaged.							
Is this acceptab	le?							
HIMM000-0291	BGP - FF&FL Values for Mat Slab and Con-	course Slab	Accepted	08/23/2013	09/03/2013		Potentially	<i>!</i>
From: Shimmick	Construction Company, Inc Don Muns	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								

SUGGESTION:



SHIMM000-0293

Co-Author:

BGP - ASI-104 Electrical Clarifications

From: Shimmick Construction Company, Inc Chris Williams

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 70 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

All Please confirm the contract documents (TG06.0) do not specify a FF value for the Mat Slab. 2. Also, please reference ACI 302.1 R and contract specification 033020.3 6.1 B. 15.3 b of ACI 302.1 R (loge 4) distincts that it is being submitted in response to RFI response T-6681. Please confirm the contract floword and the surface of the lower of the size of the submitted in response to RFI response T-6681. Specification as extra contract as extra contract specification as extra contract as extra contract as extra contract and contract as extra contract and contract as extra contract as extra contract and contract asummatical and contract as extra contract and contract as extra co					_		_		
1. Please confirm the contract documetris (TG06.0) do not specify a FF value for the Mat Slab. 2. Also, please reference ACI 302.1R and contract specification 339:203.6 B. ACI 302.1R does not provide any recommendations on F-numbers for bowners for bowners for the provide any recommendations on F-numbers for bowners	Number	Subject		Status					Proces
SHIMM000-0292.1 Cast-In-Place Concrete - FF & FL Values for Concourse Slab Open 10/02/2013 10/12/2013 Potentially From: Shimmick Construction Company, Inc Ben Gordon To: Webcor/Obayashi Joint Ventu Spencer Sayles Answered By: Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: This RFI is being submitted in response to RFI response T-0691. Please reference TG0600 contract specification section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarifly if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab	1. Please confirm the specify a FF value fo 2. Also, please refere specification 033020. any recommendation surfaces. Furthermor 46) demonstrates to grade, it must be a sr Please clarify if the d broom/rake finish, or	e contract documetns (TG06.0) do not r the Mat Slab. ence ACI 302.1R and contract .3.6.B. ACI 302.1R does not provide so on F-numbers for broomed re, table 8.15.3.b of ACI 302.1R (page achieve FF value of 20 for a slab on mooth, floated surface. designer intends to have a rough intends to have the concourse slab		Status	Oreaceu	Nequired	Answered	шрасс	70000
From: Shimmick Construction Company, Inc Ben Gordon To: Webcor/Obayashi Joint Ventu Spencer Sayles Answered By: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: This RFI is being submitted in response to RFI response T-0691. Please reference TG0600 contract specificaiton section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarify if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab	Please confirm the	e concrete finish within the train box							
From: Shimmick Construction Company, Inc Ben Gordon To: Webcor/Obayashi Joint Ventu Spencer Sayles Answered By: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: This RFI is being submitted in response to RFI response T-0691. Please reference TG0600 contract specificaiton section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarify if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab									
REQUEST: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: This RFI is being submitted in resposne to RFI response T-0691. Please reference TG0600 contract specification section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarifiy if the designer intends to have a rough broom/rake finish, or intends to have the concourse slab	SHIMM000-0292.1	Cast-In-Place Concrete - FF & FL Values	s for Concourse Slab	Open	10/02/2013	10/12/2013		Potentially	, [
REQUEST: This RFI is being submitted in response to RFI response T-0691. Please refernce TG0600 contract specificaiton section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarifiy if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab	From: Shimmick Cons	struction Company, Inc Ben Gordon	To: Webcor/Obayashi	Joint Ventu Spencer Sayles	Answered By:				
This RFI is being submitted in response to RFI response T-0691. Please reference TG0600 contract specificaiton section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarifiy if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab	Co-Author:								
T-0691. Please reference TG0600 contract specification section 033020.3.6.B. Section 3.6.B specifies a FF value of 20 for the surface of the lower concourse slab. Table 8.15.3b of ACI 302.1R (page 46) statres that to achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarifiy if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab	REQUEST:		SUGGESTION:		ANSWER:	Accept Sugges	stion:		
achieve a surface with an FF value of 20, it must be a smooth floated surface. ACI 302.1R does not provide any recommendations of "F" numbers for broomed surfaces. Please clarifiy if th edesigner intends to have a rough broom/rake finish, or intends to have the concourse slab	T-0691. Please refer section 033020.3.6.B	rnce TG0600 contract specification 3. Section 3.6.B specifies a FF value							
broom/rake finish, or intends to have the concourse slab	achieve a surface wit smooth floated surface	th an FF value of 20, it must be a ce. ACI 302.1R does not provide any							
	broom/rake finish, or	intends to have the concourse slab							

To: Webcor Construction LP

Closed

Jackson Tukuafu

08/22/2013

09/01/2013

Answered By: Webcor Construction LP Jackson Tukuafu

Potentially



After performed layout of the drainage line system around

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

71 of 1053

30100

Time:

10:53 AM

		<i>3</i>		,			
lumber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Note B on the SKE-01-3201, SKE-01-3202, & SKE-02-320I(from RFI T-0633 response) indicate that all electrical equipment shown in halftone is to be included in the later phase 2 construction (outside of TG06.0 scope). With the there is extensive electrical equipment (switch gear, panels, etc) that are shown in full tone on the drawings. Please clarify whether or not this electrical equipment is to be furnished and installed under the TG06.0 scope of work.	at,		clearly identifie be performed be electrical equip shown in the a	d and labeled by other trade s ment shown. ttached sketch group TG06.0	is and boxes shall for future connect subcontractors for All Electrical equiles are excluded f and will be includoted	tions to r the pment rom	
Additionally, if it is required, please provide the specifications pertinent to the required equipment.							
SHIMM000-0294 BGP - Rebar Configuration at Mo	oment Beam with Incorporation of S-3 vs ⁻	T-9 Ties Accepted	08/23/2013	09/03/2013		Potential	ly
From: Shimmick Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please find attached Gerdau's RFI#70.							
At the contractor's option, Gerdau would like to propose utilizing S-3 stirrups with only one T-9 tie (see attached sketch) for the vertical ties in the moment frame beam. This will be installed in lieu of installation all T-9 ties. This is done to avoid the constructability issues associated wire alternating the hooks under the 1.5" of clear cover beneat the bottom beam bars.	th						
Please confirm that the proposed reinforcing configuratio is acceptable.	n						
SHIMM000-0296 BGP - Drain Line and Micro Pile	Conflict at K.5 5.5	Accepted	08/22/2013	08/30/2013		Potential	ly 🗌
From: Shimmick Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:							
REQUEST: See attached photo and CD PI-2030.	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



be placed below the top mat. Gerdau proposes the folloing

options:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 72 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proces
umbei	<u>Subject</u>		Status	<u> </u>	Required	Answered	_ <u>impact</u>	riocee
conflict with the	as discovered that a row of micro piles is in e 4" cast iron pipe drain line. SCCI suggest ain line run to clear the micro piles.							
Is this accepta	ble?							
HIMM000-0297 From: Shimmic	BGP - Drain Line conflict with reinforcer	ment at GL K3 To: Webcor Construction LP	Accepted Jackson Tukuafu	08/22/2013 Answered By:	08/30/2013		Potentially	у 🗌
REQUEST: See attached properties of the borinterfering with catch basin. So the second	ar tails to allow installation of the drainage catch basin.	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
HIMM000-0298 From: Shimmic	Additional Rebar Conflict for Plumbing of the Construction Company, Inc. Ben Gordon	Trim at GL2/D.4 To: Webcor Construction LP	Accepted Jackson Tukuafu	08/23/2013 Answered By:	09/03/2013		Potentially	у 🗌
REQUEST: Due to the den and additional 2 and D.4, the interrupting the installed to the the opening. T additional stee	asity or the typical N-S top mat bars (#10) bars (#11) near the elevator pit at Gridlines additional trim rebar per 1/S1-3501 for a bars over the plumbing opening cannot be East of the plumbing opening within 3" of the alternative solution would be to install the sel in a new layer below the top mat; however, try of the piping to the steel the bars cannot	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



REQUEST:

Refer to drawing S1-3410.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

Confirmed. Tabs will be included in the scope for that

ANSWER:

73 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
opening. B. Relocate the ac East of the openin for additional stee Please advise if p	Subject Status Created Required Answered							
(000 anaonoa 011								
SHIMM000-0299	BGP - Additional Rebar Conflict for Flo	or Sink Trim GL B.7/2.7	Accepted	08/23/2013	09/02/2013		Potential	у 🗌
From: Shimmick C	construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached Gere	dau's RFI#72							
additional N-S top (#11 with lap splic sink at Gridlines 2 1/S1-3501 for inte opening cannot be opening. The alter additional steel in due to the proximi additional bars can the additional bar with the pin pile. G	mat bars (#11) and pin pile trim steel les directly over floor sink) near the floor large of the plumbing e installed on either side of the plumbing rative solution would be to install the a new layer below the top mat; however, ty of the plumbing piping to the steel the nnot be placed below the top mat. Also, to the East of the opening would conflict Gerdau proposes to cut top mat bars to							
Please advise if th	ne proposed solution is acceptable.							
SHIMM000-0300	•	Others Clarification	Open	09/12/2013	09/26/2013	09/20/2013	Potential	У
From: Shimmick C	construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:	Webcor Consti	uction LP Jack	son Tukuafu	
Co-Author:								

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

74 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
confirm SCCI is	e attached detail 7, S1-3410. Please to provide 3/8x7xcontinuous plate only, s shown at 5'-0" OC.				lized in Phase 2	connection of the 2 per coordination		
SHIMM000-0301	BGP - Vehicle/Bike Beam End Suppoert	Embed	Accepted	08/27/2013	09/09/2013		Potentiall	у 🗌
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST: Please reference	e attached drawing S1-3411 .	SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Detail I calls for corbel. 1D/S1-3-rather than 18".	a W'x4"x 18" embed plate at the toe of the 411 details this embed and shows it as 24"							
Please clarify th	e correct dimensions for this embed.							
SHIMM000-0302	BGP - Catch Basin Requirements		Accepted	08/27/2013	09/06/2013		Potentiall	у 🗌
From: Shimmick	Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	estion:		
	age from DBI's standard catch basin detail, rawings P1-6001 and P1-2022 thru 2030.							
drainage lines in Inspector has po	during pressure testing inspection of the nat slab areas 1 and 2, DBI Plumbing binted out that all catch basins in the mat constructed per attached detail.							
cleanouts, vents Constructing the	gs do not show catch basins details with s and trap primer connections. e catch basins per attached sheets mpensable change.							
Please provide of catch basins.	details and direction for construction of the							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

75 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
SHIMM000-0303	BGP - Chamfer Bar Top Hook		Closed	08/29/2013	09/08/2013	08/29/2013	Potentially	y 🗀
From: Shimmick (Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached Ge See attached SK				bars that are in	n conflict with d	ree hook for the couble shoring wall not been fabricate	ers is	
the existing shori	vent the chamfer bar from encroaching on ing waler beams, Gerdau would like to nding the top hook and turning it into a gree hook as shown on the attached			radius point fo		remain located a		
Please advise if t	this is acceptable							
SHIMM000-0304	BGP - Drainage Conflicts with Reinforce	ment	Accepted	08/29/2013	09/08/2013		Potentially	y 🗌
From: Shimmick (Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:			
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached ma S1-3005	arked up contract drawings PSK-2022 and							
constructed in clo similarly S1-3005 schedule and det bars will be interfo SCCI suggest to where conflicts on	nage lines and fixtures are designed to be ose proximity of the concrete columns, 5 depicts typicall mat shar reinforcement tails. Some of these shear reinforcement fering with the drainage lines and fixtures. displace these shear reinforcement bars occur. Displacement would occur lateraly, governed by the grid of the mat slabent bars.							
Please advise.								
SHIMM000-0305	BGP - Haunch Reinforcement at Double	Waler Condition	Classed	08/29/2013	00/09/2012	00/02/2012	Potentiall	
	Construction Company, Inc John Berggren	To: Webcor Construction LP	Closed Jackson Tukuafu		09/08/2013	09/02/2013 ociates, Inc Georg	Potentially	у 🔛
Co-Author:	Constitution Company, inc. Com Beiggien	10. Webcor Construction LP	Jackson Tukualu	Allowered by	·Auamson Asso	ociales, inc Georg	je ivietzgei	
		CHOCECTION		ANCWED.		\Box		
REQUEST: Gerdau RELNo. (075 dated August 29th, 2013	SUGGESTION:		ANSWER: The revised ha	Accept Sug	gestion: ment clear cover :	as	
	nfirm the resolution as proposed in the				e RFI per field			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 76 of 1053 Date: 11/05/2013

Cost

Time: Job:

Date

Date

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject		Status	Created	Required Answered	Impact Proc	eed
waler web is #10@8" (100 interferes with was observed double waler shall be to ac interfering tai 1-1/2" clear of The plan loac possible per taketch for fur remain at loc the double-widelieverd, Ge {SCCI #303} clear cover.	louble shoring waler condition, where the lower that that of a single waler, the tail of the C262 on BM-3t) haunch reinforcement he the web of the shoring waler. The condition d at Grid 2/ A and will likely repeat at other locations. The resolution to the condition djust the position, where required, so that the I clears the double waler web. As a result the cover will deviate up to 4-112" of clear cover. In the placement drawings. See the attached ther details. The 1-1/2" clear spacing shall ations unaffected by the reduced clearance of laer. For pieces not yet fabricated and ardau has submitted in [Gerdau] RFI #074 a proposed solution to conform to the 1-1/2"						
							_
SHIMM000-0307	BGP - Jitter Bug Finish on Mat Slab Surface		Accepted	09/03/2013	09/13/2013	Potentially	
	ick Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:		
	pec Section 033020.3.6.B.l.c. I photos for a visual reference.						
033020.3.6.B	ence TG06.0, BGP contract specifications B.I.c. SCCI is proposing to finish the top e Mat foundation Slab, as a "Jitter Bug" finish.						

SHIMM000-0308

Is this acceptable?

BGP - Haunch Reinforcement Atlernative Detail

Accepted

08/30/2013 09/16/2013 **Potentially**

From: Shimmick Construction Company, Inc Filip Filipic

All other finishing requirements will remain the same.

To: Webcor Construction LP

Jackson Tukuafu

Answered By:

Co-Author:



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

77 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawir Reference Spec: Attached Gerdau		SKS-76.2, SKS-76.3				3			
as fabricated due (shoring walers ar sleeves. Per discreased of haunch bar with place of the typica (SKS-76.1 and Skobstructions at the Please confirm if	10 @ 8" haunch bars to conflicts with over and struts) and the deussions with Sean M d due to the obstruct an HRC 555 head of I haunch bar. The att (S-76.2) depict the ne dewatering wells in this is acceptable.	rhead obstructions watering well cNeil where bars itions, a modified #1 an be installed in tached sketches hagnitude ofthe Area 3.							
	ded tail of the modifi								
SHIMM000-0308.1	BGP - Haunch	Reinforcement Alternative D	etail	Accepted	09/03/2013	09/13/2013		Potential	ly 🗌
From: Webcor Co	nstruction LP	Jackson Tukuafu	To: Shimmick Construction Co	mp Ben Gordon	Answered By:				
Co-Author:									
REQUEST: See attached Ger	dau's RFI #79.		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
degree hook char conflict with the d RFI was to reques chamfer bars thro	te to RFI T -0702 sta infer bars are accepta ouble shoring walers st the use of the 180 oughout the structure be bars were below a	able where the bars . The intent of the - degree hook for the regardless of							
Please confirm th	at this is acceptable.								
SHIMM000-0309	BGP - Mat Slai	o Added Steel Interference		Accepted	08/31/2013	09/16/2013		Potential	lv 🗀
	Construction Compar		To: Webcor Construction LP	Jackson Tukuafu	Answered By:				, _—

To: Webcor Construction LP



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 78 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

Number Subject		Status	Date Created		ate nswered	Cost Impact	Proceed
REQUEST:	SUGGESTION:		ANSWER:	Accept Suggesti	on:		
Reference Drawing S1-3003 and Spec Section 03 20 00 See attached Gerdau Sketch SK-77, BM-3b, BM-3t							
Due to the location of select trestle and pin piles, the #9@16" (bottom mat) and #11@16" (top mat) added North-South layer reinforcement cannot be installed at the desired spacing. The proposed solution is to cut the adde #9 or #11 bars, where interrupted by a pile, and add a hook of equal size or greater (#11 hook max) with a lap splice similar to the hooks used for the trestle and pin pile trim steel.	d						
Please confirm if this is acceptable.							
From: Shimmick Construction Company, Inc Ben Gordon	Rebar Conflict With Plumbing Near GL3/C.3 To: Webcor Construction LP	Closed Jackson Tukuafu	09/03/2013 Answered By:	09/13/2013		Potentially	/
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Suggesti	on:		
See attached Gerdau's RFI #078. Near Gridlines 3/C.3, there is a conflict between the partition wall pier dowels and the installed 6" pluming pipe (8" with insulation). The wall pier currently overlaps with the plumbing pipe by approximately 6". Gerdau proposes to move the wall pier to the East, or West to allow the dowels to clear the pipe.							
Please provide the acceptable direction (East or West) to shift the wall pier.							
Please note that there are conduits stub up on the East side that would need to be moved, should the opening is shifted towards the East.							
SHIMM000-0311 BGP - Couplers for Future Walls		Accepted	09/03/2013	09/13/2013		Potentially	, \Box



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 79 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

			9		-			
lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact Pro	ocee
REQUEST: Reference Det. 6		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
used as couplers	oto of the form savers that are going to be s for future walls.							
6HIMM000-0312	NW Corner Wall intersection Horizontal	and Haunch - Area 3	Closed	09/04/2013	09/14/2013		Potentially [
	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:						. \square		
REQUEST: Reference Draw Reference Spec		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ation with the on-site structural engineer nditions are to be confirmed as acceptable:							
the size, spacing	est comer of Area 3, comer bars matching g and lap splices of typical horizontal nstalled in-lieu ofbent typical horizontal in sketch FC-1							
of the same size	ked haunch horizontal bars, straight bars e have been installed with the required e Bar B in sketch FC-1.							
the haunch bars trimmed at the a (Bar C) haunch I observed conditi	ction of the North and West haunch bars, along the North (Bar D) wall have been approximate intersection with the West bars. Reference sketch FC-2. The ion is acceptable, but at future locations ection of two haunches the detail for BarE							
	ess BarD already has 42" of embedment.	with Downstonian Walla	011	00/04/0045	00/04/00/2		Data dalla 1	_
SHIMM000-0313 From: Shimmick	BGP - Haunch Reinforcing Intersection Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Closed Jackson Tukuafu	09/04/2013 Answered By:	09/04/2013		Potentially	
	,, ,	WODOOI OOIISH GOHOII LI	Jackson Tukualu					

SUGGESTION:



REQUEST:

Please refer to attached drawing S1-2024 (dated 11/27/12), S1-3005 and attached sketch SK-SCCI 316.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

80 of 1053 11/05/2013

Time:

10:53 AM 30100

ANSWER:

Accept Suggestion:

Number	Subject		Status	Date Created	Date Date Required Answered	Cost
Number	<u>Subject</u>		Status	<u> </u>	Answered	<u>Impact</u> <u>Proce</u>
Reference drawir Reference spec:						
	ation with the on-site structural engineer ditions are to be confirmed as acceptable:					
	g Gridline A, the haunch bars have been oproximate intersections with the bottom FC-3					
trimmed at the ap	g Gridline 1, (2) haunch bas have been oproximate intersection with the top mat ent. See sketch FC-4.					
haunch bars, use	is where dewatering wells interrupt e detail for bar E in sketches FC-3 or FC-4 s do not have 42" of embedment into the					
SHIMM000-0315	BGP - Extended Time for Concrete Deli	ivery - Protection Slab	Open	09/10/2013	09/20/2013	Potentially
From: Shimmick (Co-Author:	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:	
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
Cemex has perfo	ermed the set time test to evaluate the enset of hydration occurs for mix ction Slab Mix).					
	enced herein, is it acceptable to extend very time to (2) hours?					
SHIMM000-0316	BGP - Column Shear Rinforcement and	Bump-Out Pile Interference	Accepted	09/10/2013	09/20/2013	Potentially
From: Webcor/Ob	payashi Joint Venture Bob Garcia	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 81 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Cost

30100 - Transbay Transit Center Project

Number	Subject		Status	Created	Required	Answered	Impact	Procee
	ents, the 36" bump out trestle pile near rfere with the nearby column shear dlines G/15.							
head locations, as p	restle pile, the adjustment of the shear provided in RFI T-0703, cannot be provide direction on how to proceed.							
SHIMM000-0317	BGP - Trim Steel Requirements for Mat S	lab	Open	09/10/2013	09/20/2013		Potential	ly 🗌
From: Shimmick Co	nstruction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered B	/ :			

Co-Author:

REQUEST:

Per field instructions, to help alleviate congestion in the mat reinforcing, and in particular, congestion resulting from add bars due to openings and penetrations, please confirm the following:

- 1. Details 4 and 7 on Sheet S1-3009 in so far as they apply to trestle piles, pin piles, dewatering wells and piezometric pipes can be relaxed in terms of additional bars. For an even number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars)/2. For an odd number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars +1)/2.
- 2. Detail 1 on Sheet S1-3501, which applies to sinks, can be relaxed in terms of additional bars. For an even number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars)/2. For an odd number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars +1)/2. The minimum requirement of 2 bars on either side of the opening need not apply.
- 3. The number of bars and maintenance of clear spacing will take precedence over 8; or 4; module spacing as to minimize the number of potential bar interruptions (and minimize resulting add bars). Any bar may be displaced to avoid conflict. The maximum center-to-center spacing of

SUGGESTION:

ANSWER:

Accept Suggestion:

Date

Date



for the below grade package are to be terminated 12" above the mat slab directly adjacent to the future train platform wall. With the train platform wall beginning at grid

terminations for the sumps to be installed west of grid line

line 12 and moving east, where are the conduit

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

82 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
any two adjacent bars may be as large as 16¿. Clear spacing of 1 bar diameter shall be maintained between bars where bar relocation necessarily reduces spacing in the vicinity of relocation. Where bar relocation affects a lap splice, noncontact lap splices will be allowed up to 6¿ for #10 and #11 bars. This remedy shall apply in particular when seeking to avoid interruptions at small penetrations such as risers, vents, sinks and conduits. 4. Clear spacing of 1db minimum shall be maintained in all mat reinforcing except for contact lap splices.5. Measures to reduce congestion at other locations such as catch basins, sump pits, elevator pits, shoring bracing and bridge piers will be considered on a case-by-case basis during field coordination with Thornton Tomasetti¿s field representative.							
HIMM000-0318 BGP - Mat Slab CJ Layout Areas 2/4, 6		Accepted	09/10/2013	09/20/2013	09/10/2013	Potential	y 🗌
From: Shimmick Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Webcor Consti	ruction LP Jack	son Tukuafu	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please reference the attached CJ layout drawing, CJ-04, regarding the proposed CJ layout for Areas 2/4 and Area 6. These changes are to eliminate conflict with diagonal pit rebar as well as micro piles. Please verify that these changes are acceptable.			submittal proc submittal pack	ess. Please re- age designated	be submitted via send using the n I for this shop dra d item number 03	ext awing:	
HIMM000-0320 BGP - Sump Pump Conduit Termination	s Between Grid Lines 1 & 12	Open	09/12/2013	09/22/2013		Potential	ly 🗌
From: Shimmick Construction Company, Inc Chris Williams	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:			
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Por Dotail 7 on plan shoot E1 6001, sump nump conduits					- 🗀		



grade 75 #11 reinforcing where required will be acceptable for use within the typical mat reinforcing

installed at 8" O.C.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 83 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Date Required Answered	Cost d Impact Proceed
			<u> </u>			<u>pace</u>
dimenion the conduit s when the train platform	train platform? Is there a set hould be set away from the sump is not present? Please advise. e two sumps that have been poured					
of each sump opening	were placed roughly 9' to the north to avoid the future train tracks. s west of grid line 12 with 6 ofthem					
HIMM000-0321	BGP - Pit Detail Near Grid E/34.5		Open	09/17/2013	09/27/2013	Potentially
From: Webcor/Obayash	ni Joint Venture Bob Garcia	To: Webcor Construction LP	Jackson Tukuafu	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
shown in SI-2057 to be show along gridline 34. depicts the pile being le at gridline E/34.5. Base that the pile in question	0" diameter) near grid E/34.5 is offset from the typical row ofpiles 7. In addition, detaill /SI-3007 ocated within the pit that is located ed on field observations, it appears a has been installed in line with the 34.7 which could possibly result in of the pit.					
Please confirm if the pi in S12057 and 1/Sl-300 alternative detail to 1/S	lle is located within the pit as shown 07. If not, then please provide an Il-3007.					
HIMM000-0322	BGP - Mat slab, Grade 75 #11 Reinforcing		Open	09/17/2013	09/27/2013	Potentially
From: Shimmick Consti	ruction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
	of grade 75 #10 reinforcing please					



confirm it is acceptable to omit the pilaster ties of Detail

2/S1-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

84 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

9/17/2013

RESPONSE:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
supplement the ty	ade 75 # 11 rebar is expect pical #1 0 bar in the follow of Area 6, and 4th layer of	ing locations,							
SHIMM000-0323	BGP - Column C16 a	and Knock-Out Cor	bel - West Throat	Open	09/17/2013	09/27/2013	09/18/2013	Potentiall	у 🗆
From: Webcor/Ob	ayashi Joint Venture	Bob Garcia	To: Webcor Construction LP	Jackson Tukuafu	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
West throat shear columns and verti walls, only the Cl6 the mat at the des 12" below the low associated with the mat slab. This corbel ties, as pla	ussion with TT field engine walls which contain integra cal corbels to restrain the last column ties are required is signated spacing for a distatest top mat elevation. The le corbel are not required to s RFI confirms that the coluced, are acceptable based a TT field engineer.	ated Cl6 knock-out to penetrate unce of at least ties o penetrate umn and			Shearwall. Intevertical corbel are indicated for the column ties the designated below the lower associated with the corbel ties observed as a seconfirmed as a	s a boundary elegand to the columbrate that restrains the columbrate to the columbrate that restrains the columbrate that required to the columbrate to the columbrate to the columbrate that columbrate that columbrate that columbrate the columbrate that columbrat) is a . Ties el. Only nat at st 12; eat, the / tte the . This nt or	
SHIMM000-0324	BGP - Area 1- Confir	ming RFI- Knock C	out Corbel and Haunch at SW Corner	Closed	09/17/2013	09/27/2013	09/18/2013	Potentiall	v 🖂
	Construction Company, Inc	_	To: Webcor Construction LP	Jackson Tukuafu			ciates, Inc Geor		- 🗀
Co-Author:								-	
REQUEST: Per field coordina	tion with TT field engineer,	please	SUGGESTION:		ANSWER: George Metzg	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

85 of 1053 11/05/2013

30100

Time:

10:53 AM

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed 3204 within the body of the haunch provided that: The pilaster detailing as described in the RFI is ¿ The pilaster West corner bar (Bar A in attached photo) is acceptable within the body of the haunch. tied with 135 hooks in both directions ¿ Ties shall be #4 bars spaced at 4" o.c. ¿ The tie perpendicular to the South wall shall be developed a minimum of 14" into the South wall beyond haunch. ¿ The tie parallel to the South wall shall be hooked around the pilaster East corner bar (Bar B in attached photo). ¿ In lieu of two individual ties, it is also acceptable to combine the ties into a single shape with a 90 degree bend at Bar A. ¿ The extent of the ties shall be from the top of the mat to the top of the haunch, after which Detail 2/S1-3204 will resume. ¿ The horizontal haunch bars shall terminate with a spliced matching hook. ¿ The horizontal formsaver bars for the future train tunnel shall be #7 @ 6" O.C. on the inside and outside face of the 3'-0" foundation wall. 09/18/2013 SHIMM000-0325 **BGP - Area 6 CJ Layout Modifications** Open 09/28/2013 **Potentially** From: Shimmick Construction Company, Inc Filip Filipic Answered By: To: Webcor Construction LP Jackson Tukuafu Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** See attached photos of the construction joint at mat slab area 6 South, near grid line 8.5, and CJ layout drawings. Due to congestion and access SCCI would like to shift the walls and concourse joints at this location 14.5" to the East. This adjustment does not affect any other structure's elements and complies with the CJ parameters outlined in the contract specifications.

Is this acceptable?



Page: Date:

Job:

86 of 1053 11/05/2013

Time:

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

JOINT VENTURE	301	00 - Trans	bay Transit	t Center F	Project			
lumber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Shimmick Construction Company, Inc Filip	Filipic To: Webcon	r Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST: See attachments.	SUGGESTI	ON:		ANSWER:	Accept Sugg	gestion:		
SCCI had to shift the construction joint between m areas 6 and 7 Eastward due to the interference wi micropiles and trestle piles. THis shif i nt ht eCJ p bulkhead against the catch basin near GL G11.	h the							
in order to mitigate this conflict SCCI propose shift catch basin location 24" +/- (in East/Wet direction) either side of the bulkhead/CJ.								
Is this acceptable.								
BGP - Structural Slurry Pr	imer in Mat Slab		Open	09/24/2013	10/04/2013		Potential	ly
From: Shimmick Construction Company, Inc Ben (Gordon To: Webco	r Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
REQUEST:	SUGGESTIC	ON:		ANSWER:	Accept Sugg	gestion:		
Please refer to the attached letter, authored by Ro Foley (CEMEX QC), dated September 17, 2013.	per							
With limited site access, many Mat Slab pours will a larger than normal amount of slick-line. To ensu no slick-line gets plugged, SCCI is proposing to pr slick-line with a structural slurry that will reach and the specified design strength for the Mat Slab. A miniscule percentage of this primer will be deposit the mat slab. This percentage would amount to .0 percent by volume.	re that me the exceed ed into							
Please confirm the proposed SCCI method of slick priming is acceptable.	-line							
SHIMM000-0329 BGP - Internal Bracing Le	vel D Removal		Open	09/24/2013	10/10/2013	09/30/2013	Potential	lv 🗀
ŭ		r Construction LP	Jackson Tukuafu			struction Cc Filip		·
Co-Author:				,			r ·	
REQUEST: Compiled concrete maturity data and break results	SUGGESTIO	ON:		ANSWER: Per email	Accept Sugg	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 87 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
reaches betwee the end of the well. SCCI requests Contractor to a	lab pour show that after two weeks mat slab een 4.5 and 5 KSI, this is approximeateley thermal control fo rthe mass concrete, as s design team to allow TG03 Trade remove level Dinterior bracing when mat reaches 4.5 KSI.			available for ex Changing the t removal is for the For the benefit pursuing the co Ryan's e-mail the If you have any	rity data from to reryones use a serms/specification NOJV/BBII/De of the Projects oncept of our, ropelow.	he mat slabs will nd interpretation. tions/scope of brasigner coordination progress I suggenow voided, RFI 3 ease let me know.	cing on. est 29 and	
				Regards,				
				Filip Filipic				
SHIMM000-0330	BGP - Haunch Bar Grade and Size Increas	e	Open	09/25/2013	10/05/2013		Potential	ly 🗌
From: Shimmic	ck Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered By:				
Co-Author:								
	m if it is acceptable to utilize Grade 75 #10 or eu of the Grade 60 #10 rebar for the 3'-0"	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
SHIMM000-0331	BGP - Geothermal Fields 11, 12, & 13 Layo	out in Zone 4	Open	09/30/2013	10/10/2013		Potential	ly
From: Shimmic	ck Construction Company, Inc Chris Williams	To: Webcor/Obayashi Joint Ver	ntu Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
layout in zone	the two proposal drawings fo rthe geothermal 4. Please confirm which layout is option #! or Option #2.							



B2441 in Mat Slab Area 9. Please confirm that the layout

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

88 of 1053

Time:

10:53 AM

30100

umber	Subject		Status	Date Created	Date Date Required Answered	Cost Impact Proceed
HIMM000-0332	BGP - Mat Slab Construction Joint Betwe	een Area 2 and Area 4	Open	10/01/2013	10/11/2013	Potentially
From: Shimmick	Construction Company, Inc Filip Filipic	To: Webcor/Obayashi Joint Ver	ntu Spencer Sayles	Answered By:		
Co-Author:						
REQUEST: Reference TG06	:00-30.2 Submittal.	SUGGESTION:		ANSWER:	Accept Suggestion:	
to combine slab	the prior progress meetings, SCCI plans pours S102 and S104 into one pour I forms in between. Is this acceptable?					
HIMM000-0333	Loc. of Electrical Equipment and boxes f	or Elec. Room B2560	Open	10/02/2013	10/02/2013	Potentially
From: Shimmick	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
	shed the revised layout for Electrical Room ab Area 8. Please confirm that the layout					
HIMM000-0333.1	Loc. of Electrical Equipment and Boxes t	for Elec. Room B2560	Open	10/28/2013	11/07/2013	Potentially
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
Please reference and Spec Section	e RFI #T-0782, drawing El-2025, Al-2105, n 26 05 34.					
	sponse proposes layout for electrical loox layout in Electrical Room B2560 - Area lt. See attached.					
Please confirm the	hat the layout is acceptable.					
HIMM000-0334	Locc. of Electrical Equipment and boxes	for Elec. Room B2441	Open	10/02/2013	10/12/2013	Potentially
From: Shimmick	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
Please find attac	thed the revised layout for Electrical Room					



equipment and box layout in Electrical Room B2460 - Area

08 in CAD format. See attached.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

89 of 1053 11/05/2013

Time:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
is acceptable.								
HIMM000-0334.1	Loc. of Electrical Equipment and Boxes	for Elec. Room 82441	Open	10/28/2013	11/07/2013		Potential	v 🗆
From: Shimmick (Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				,
Co-Author:			,	-				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	stion:		
Please reference 2104 and Spec S	e RFI #T-0781, drawings El-2024 and Al- Section 26 05 34.							
	ponse proposes layout for electrical ayout in Electrical Room B2441 - Area 09 see attached.							
Please confirm th	nat the layout is acceptable.							
SHIMM000-0335	Location of Electrical Equipment and Bo	oxes for Electrical Room B2460	Open	10/02/2013	10/12/2013		Potential	y 🗌
From: Shimmick (Construction Company, Inc Chris Williams	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	stion:		
	hed the revised layout for Electrical Room ab Area 15. Please confirm that the layout							
SHIMM000-0335.1	Loc. of Electrical Equipment and Boxes	for Elec. Room B2460	Open	10/28/2013	11/07/2013		Potential	у 🗌
From: Shimmick (Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	stion:		
Please reference 2104, and Spec S	RFI #T-0780, drawings El-2026 and Al- Section 26 05 34.				. 30			
RFI #T -0780 res	sponse proposes layout for electrical							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

90 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Required Date Answered	Cost <u>Impact</u> P	rocee
Please confirm t	hat the layout is acceptable.						
SHIMM000-0336	Locations of Electrical Equipment and B	oxes for Electrical Room B2461	Open	10/02/2013	10/12/2013	Potentially	
From: Shimmick	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Spencer Sayles	Answered By:			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:		
	thed the revised layout for Electrical Room ab Area 8. Please confirm that the layout						
SHIMM000-0336.1	Loc. of Electrical Equipment and Boxes f	for Elec_ Room B2461	Open	10/28/2013	11/07/2013	Potentially	
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:		
Please reference Section 26 05 34	e RFI #T-0779, drawing El-2024, and Spec I.						
	sponse proposes layout for electrical lox layout in Electrical Room B2461 - Area t. See attached.						
Please confirm la	ayout is acceptable.						
SHIMM000-0337	Loc. of Electrical Equipment and boxes f	or Elec. Room B2640	Open	10/02/2013	10/12/2013	Potentially	
From: Shimmick	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Spencer Sayles	Answered By:			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:		
	thed the revised layout for Electrical Room ab Area 8. Please confirm that the layout						



mat slab. The provisions are as follows:

¿ All terminating EW top mat reinforcing shall be hooked

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

91 of 1053 11/05/2013 10:53 AM

Time:

Job: 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact Pr	ocee
6HIMM000-0338	Clarification of Vehicle/Bike Beam End S	Supports	Open	10/02/2013	10/12/2013		Potentially	
From: Shimmick C	Construction Company, Inc. Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
0453.1. Please c	submitted in response to RFI resonse T- confirm the Vehicle/Bike Ramp end Confirm the acute angle is 56 degrees is 124 degrees.							
SHIMM000-0339	Type C31/D22 Coupler Stagger		Open	10/03/2013	10/03/2013		Potentially	
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
column vertical ba of 24" or more; ho	requires the couplers for the adjacent ars be staggered with a vertical distance owever, due to the pattern and spacing of he type C31/D22 detailed on S1-3306, not be met.				,			
	etch of a proposed pattern for the vertical C1/D22 columns, please confirm if it is							
SHIMM000-0340	Areas 5 and 6 EW Top Mat Reinforcing a	nt South Wall Radius	Open	10/04/2013	10/14/2013		Potentially	
From: Shimmick C	Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Spencer Sayles	Answered By:			•	ш
Co-Author:			,	•				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
Refer to the attac Radius.	ched sketch 131003_S105-S106 South				33			
an increasingly ac eventually preven	nd S106, EW top mat reinforcing makes cute angle with the south wall. This nts the reinforcing from penetrating the reinforcing curtains to reach the edge of							
	ation, it is acceptable to terminate EW top							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 92 of 1053 Date: 11/05/2013 Time: 10:53 AM

Job:

30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

- ¿ Where the angle becomes such that the mat reinforcing cannot penetrate the inner wall reinforcing. The reinforcing may terminate immediately in front of the wall reinforcing inside the haunch. This is labeled Zone 1 in the sketch.
- ¿ In Zone 1, single haunch bars that interfere with penetration of mat reinforcing into the haunch shall be relocated to allow penetration. Relocation will be to the nearest adjacent placement opportunity without regard to the 8" spacing module. Clear spacing, however, between haunch bars shall be maintained.
- ¿ The total number of haunch bars will remain unchanged.
- ¿ In Zone 1, provide a curved band of reinforcing at the typical size and spacing of the mat within the wall.
- ¿ Where the angle becomes such that the mat reinforcing cannot penetrate the haunch without relocating more than one haunch bar, reinforcing may terminate at the toe of the haunch. This is labeled Zone 2 in the sketch.
- ¿ In Zone 2, provide a curved band of reinforcing at the typical size and spacing of the mat within the haunch.
- ¿ Zone 1 and Zone 2 bands will overlap typical reinforcing by the distance LTS.

SHIMM000-0341 Mat Slab S108 East Construction Joint Modifications Open	10/08/2013	10/18/2013	Potentially [
--	------------	------------	---------------

From: Shimmick Construction Company, Inc Filip Filipic Answered By: To: Webcor Construction LP Spencer Sayles

Co-Author:

REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:**

See Attachments.

After the layout of the East construction joint in the mat slab area 8, SCCI discovered several constructability issues with the mat keyway and other project structure elements.

- 1. East construction joint in area 8 falls within th erow of micropiles. For this area, SCCI intends to jog the joint 12" +/- to the East to clear the mimcropile conflict.
- 2. CJ at area 8 East runs thru the thickened slab section at GL 1.6G.3. In this area SCCI intends to shift the joint Eastward to capture the thickened section within the area



Page: Date:

Job:

93 of 1053 11/05/2013

30100

Time:

10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed 8 pour. Is this acceptable? SHIMM000-0342 Mat Slab S109 East Construction Joint Modifications Open 10/08/2013 10/18/2013 Potentially From: Shimmick Construction Company, Inc Filip Filipic To: Webcor Construction LP Spencer Sayles Answered By: Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** See Attachments. After the layout of the East construction joint in mat slab area 9 SCCI discovered several constructability issues with the mat keyway and other project structure elements. SCCI proposes to install the CJ between area 9 and 10 as shown on the attached sketches. Is this acceptable? SHIMM000-0343 Partition Wall Pilaster and Plumbing Conflict at GL C.5/4.8 10/08/2013 Open 10/18/2013 Potentially From: Shimmick Construction Company, Inc Ben Gordon Answered By: To: Webcor Construction LP Spencer Sayles Co-Author: **REQUEST:** SUGGESTION: ANSWER: **Accept Suggestion:** The reinforcement fo rthe partition wall pilaster at approximeately GL C.5/4.8 is in conflict with the drainage pipe below. Per not 3 on detail 0/S1-9050 the ties will be installed if possible. Two veritcal bars in teh pilaster will have to bent in ordre to clear the pipe and two others will have to be slightly displaced to clear the pipe. See the attached sketch for details. Please confirm if this is acceptable.



to the West Extent of WR2 at Gridline 11

Please confirm that this deviation from RFI T-0627.1

Webcor/Obayashi Joint Venture

Page: Date:

Job:

94 of 1053 11/05/2013 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

JOINT VENTU	JRE	30100 - Tran	sbay Transi	it Center F	Project			
lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
6HIMM000-0344	Haunch Hook Embedment		Open	10/08/2013	10/18/2013		Potentially	y
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
lengths of the had average 35", but their intersection interior reinforcial	s with TT Field Engineer, the embedment aunch hooks (see RFI T-716) provided t are no less than 29", as measured from n with the wall ng curtain. See sketch for more details. if this is acceptable.							
SHIMM000-0345	Mat Slab S110 East Construction Joint	Modifications	Open	10/08/2013	10/18/2013		Potentially	у 🗀
From: Shimmick	Construction Company, Inc Filip Filipic	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attachmaer	nts.							
area 10 SCCI di wih the mat key SCCI proposed	of the East construciton joint in mat slab iscovered several constructability issues way and other project structure elements. to install the CJ between area 10 and 11 e attached sketches. Is this acceptable?							
SHIMM000-0346	Follow up and Field Adjustment to BEI	T 0627 1 Area 6 CDSM	Onen	10/10/2013	10/20/2013		Potentiall	
	Follow-up and Field Adjustmetn to RFI Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Open Spencer Sayles	Answered By:	10/20/2013		Potentially	у 🔛
Co-Author:	Construction Company, the Bon Corden	10. Webcoi Constituction Er	Spericer Sayles	Answered by.				
REQUEST:		SUGGESTION:		ANSWER:	Accort Sug	nostion.		
During field layo	out of CDSM encoachment in Area 6, the does not only of encroachment has been moved:	SUGGESTION.		ANSWER.	Accept Sug	gestion:		
extent to SP694 the buried bar la	eent at SP696, we have moved the East i, this is due to SP695 encroaching during ayout. This accounts for 4' additional wall /8" due to CDSM encroachment.							
encroachment v	nent at SP104, the West extent of was moved to SP102. The rebar option 1 1 rebar @ 6" OC will be used from SK102							



Per discussions with TT Field Representative, please

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

95 of 1053 11/05/2013

Time:

10:53 AM 30100

			<i>J</i>		,			
Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
response is acce	eptable.							
SHIMM000-0347	Area 4 Wall Vertical Reinforcement Spacing		Open	10/10/2013	10/20/2013		Potentiall	у
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
Reference: RFI	T-0622 and RFI T-0622.1.							
	vertical reinforcement has been installed e layout in RFI T-0622.1.							
reinforcement, a acceptable. Note	f the spacing of wall vertical s shown in the attached sketch, is that the wall thicknesses remain the ed in RFI T-0622.1.							
SHIMM000-0348	Area 2 Foundation Wall Vertical Spacing		Onen	10/10/2013	10/20/2013		Detential	$ abla$
	Area 2 Foundation Wall Vertical Spacing Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Open Spencer Sayles	Answered By:			Potentiall	у
Co-Author:	Constitution Company, the Ben Cordon	10. Webcor Construction LP	Spericer Sayles	Allsweled by.				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	oction.		
A 16ft portion of between GL 6 ar of the required V	the Area 2 wall vertical reinforcement, and 7, has been installed at 6" OC instead VR1 spacing (8" OC). Please confirm if the ertical reinforcement, as shown in the is acceptable.	SUGGESTION.		ANOWER	Accept Sugge	ssuon.		
SHIMM000-0349	Top Mat Reinforcement Placement Toleranc	e	Open	10/10/2013	10/20/2013		Potentiall	у 🗆
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST: Reference: ACI	117.	SUGGESTION:		ANSWER:	Accept Sugge	estion:		



details for the seismic joint. What is the function of this

plate?

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 96 of 1053 11/05/2013 10:53 AM

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
								-	
reinforcement pla	ceptable to increase acement tolerance frould also change the coll/2" to +/-1/2".	om +/-1/2" to +1/2"							
HIMM000-0350	Seismic Joint	Drawing Discprepanices in	Contract Drawings	Open	10/14/2013	10/14/2013	10/14/2013	Potentiall	у
From: Webcor Co	onstruction LP	Jackson Tukuafu	To: Webcor Construction LP	Spencer Sayles	Answered By:	Webcor Const	ruction LP Jack	son Tukuafu	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
contract drawing	e detail 7/A1-8881 and s. 81 shows several ele				those provided	contract drawi and reference awing A1-8881	ng details differ for the control of	fer to	
Please confirm the	uctural drawing (high hese are required in t or tabs, bolts and wel	the assembly and			2. See respon	_			
	embed. What are th	ped object protruding nese objects and			3. See respons	se to Item #1 al	oove.		
	010 depicts a 3/4" dia e Architectural drawin								
HIMM000-0351	5/8"x6' Galvar	nized Steel Plate at Seismic	Joint	Open	10/14/2013	10/24/2013		Potentiall	у 🗌
From: Shimmick	Construction Compa	ny, Inc Scott Bunnell	To: Webcor Construction LP	Spencer Sayles	Answered By:				
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please reference Contract Docume	e Detail 7/A1-8881 an ents.	d 4/S1-3010 of the							
a 5/8"x6' galvani:	881 (and other details zed steel plate secue is plate does not app								



3 rows of vertical bars. See attached sketch for details.

Please confirm if this is acceptable.

Webcor/Obayashi Joint Venture

Page:

Job:

97 of 1053 11/05/2013

30100

Time: 10:53 AM

Date:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed 2. How is the plate secured of the mud slab? How is it secured to the soldier beams? There does not appear to be access to weld directly to soldier beam. SHIMM000-0352 BGP - Temporary Power Route from Skid #5 to Zone #5 Closed 10/16/2013 10/26/2013 10/16/2013 Potentially From: Shimmick Construction Company, Inc Chris Williams To: Webcor Construction LP Spencer Savles Answered By: Webcor Construction LP Jackson Tukuafu Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Please find attached a drawing of the proposed Temporary This should not be an RFI but reviewed via the Power route from Skid #5 to Zone #5. Is this routing submittal process. The proposed route should include acceptable? Please advise. but not limited to, elevation of proposed route across the pedestrian walkway, attachment method of conduit to Beale St. bridge, detail of conduit at shoring wall and product data to support installation. The following submittal package and item # are available for use: TG0600-089 - BGP - Temp Power to Zone 4 Drawing Layout, Item # 011500-01 - Temp Power Route Drawing and Product Data at Zone 4.. SHIMM000-0353 U-Bar at CDSM Encroachment Near GL 16.9/J Open 10/17/2013 10/27/2013 Potentially From: Shimmick Construction Company, Inc Ben Gordon To: Webcor Construction LP Spencer Sayles Answered By: Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference: RFI T-0742 - CDSM Soldier Pile Encroachment Area 9. Per the response to RFI T-0742, the spacing of the verticals in the C21 embedded column at Gridlines 16.9/J was changed from 6" OC to 5" OC due to the CDSM soldier pile encroachment. As a result, there is an odd number (19) of verticals per layer which would leave one row of verticals to not be straddled by a U-bar. Gerdau proposes to widen the final U-bar in the embedded column and straddle



lug and blockout that are present, include but are not

- Typical MFB Beam at C24.9 (blue colored bars in

limited to:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

98 of 1053 11/05/2013 10:53 AM

30100

Time:

lumber	Subject		Status	Date Created	Date Date Required Answered	Cost Impact Procee
6HIMM000-0354	BGP - Concourse Elevator Pit Sill Plates		Open	10/16/2013	10/26/2013	Potentially
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
Contract Drawings	A1-2824 through A1-2847 (BGP TG06.0 s). Please confirm all delvator it sill he TG06.0 scope of work.					
SHIMM000-0355	BGP - Concourse Opening Dimension Cl	arification	Open	10/16/2013	10/26/2013	Potentially
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
Contract Drawings	A1-2844 and S1-2204 (BGP TG06.0 s). Please clarify North-South concourse n at gridlines 13/C. 8'-8 3/4" or 7'-7"?					
SHIMM000-0356	BGP - Elevator Rail Supports Dimension		Open	10/16/2013	10/26/2013	Potentially
From: Shimmick C	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
	attached detail 4, S1-7630. Please embed dimension is 2-7", as shown in					
SHIMM000-0357	BGP - Structural Steel Embeds in Conco	urse Slab/Columns	Open	10/17/2013	10/27/2013	Potentially
From: Shimmick C	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Spencer Sayles	Answered By:		
Co-Author:						
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	
slab and column (structural steel she conflict with the re	ar congestion model of the concourse C2 at C24.9. As is apparent, the ear lug portion of the plate embed is in einforcing steel and will not fit with acting. The rehar conflicts with he shear					



2251, A1-7401, S1-3411, S1-3203 and S1-3204.

1. Please confirm embed locations as shown on attached S1-2251 (reference drawings for description of embeds).

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

99 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

				Date	Date	Date	Cost	
Number	Subject		Status	Created	Required	Answered	Impact	Procee
 Main concours 	ellow colored bars in model) se slab (pink colored bars in model) ertical T-Heads (purple colored bars in							
	a solution that will provide a constructible abediment of the structural steel plate.							
SHIMM000-0358	Sump Pit Rebar Tail and Trestle Pile @	GL 18.5/E - Area 9	Open	10/17/2013	10/27/2013		Potential	у 🗌
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference: RFI	T-0644							
18.5/E are in co	np pit lower mat #11 tails near grid line nflict wit the nearby trestle pile. The bars ned to clear the trestle pile and provide an ad of 60" as required per plans.							
bar as required in however, the tring not beet the 78" leave the 3 ea tr	t bar would be spliced to the interrupted in SKS-0281 in the response to RFI T-066; mmed bars have a 70" length which would LTS requirement. Gerdau propose to rimmed bars as-is and not incoporate an d bent bar. Please confirm if this is							
SHIMM000-0359	Vehicle Ramp Beam and Wall Support I	Embeds Clarification	Open	10/17/2013	10/27/2013		Potential	у 🗌
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				_
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Please reference	e attached TG06.0 contract drawings S1-							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 100 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
7401 (4 total emb	e angles for embeds highlighted on A1- beds, with acute and obtuse angle for milar to RFI Response T-0453.2)							
HIMM000-0362	Area 11 to 16 Mat Slab Layer 3 Lap Splic	ce Relocation	Open	10/21/2013	10/31/2013		Potentiall	у 🗍
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
access trestle, G typical layer three through 16. This moved from the o Note 1 of the Mar	cess between the waterproofing and erdau proposes to shorten the mat slab e (North-South) 67'-0" bars at Areas 11 requires the lap splice location to be center of column line, as specified on t Top Bar Notes in S1-2052, to the a the attached sketch.				,			
Please confirm if	this is acceptable.							
HIMM000-0363	Lower Concourse Construction Live Lo	ad Variance	Open	10/23/2013	11/02/2013		Potentiall	у 🖂
From: Shimmick	Construction Company, Inc Scott Bunnell	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
and the attached calls for a minimureferencing or inc According to D.F projects of this padesign for 50 pafterwards, while load (dead + live) Charles project h	e Specification Section 03 10 00 - 3.2.A.2 project spreadsheet. This spec section um construction live load of 50 psf without dicating before or after concrete is placed. H. Charles (shoring designer), falsework oplication typically approach the falsework before concrete is placed and 20 psf always maintaining a minimum design of at least 100 psf. See attached D.H. iistory spreadsheet using this same. Falsework calculations to follow. Is this acceptable?				. 30			



embeds per detail 6 on S 1-3203 and detail 10 S 1-3204 are required. SCCI and its embed supplier has a

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

101 of 1053 11/05/2013

Time:

10:53 AM 30100

			,		,		
Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact Procee
SHIMM000-0364	Lower Concourse Slab Edge Dimensions		Open	11/04/2013	11/14/2013		Potentially
From: Shimmick Co	onstruction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
through SI-2207, fra for the slab opening drawings conflict wi	rings for the lower concourse (SI-2202 aming plans) do not include dimensions gs. Scaled dimensions from these ith many of the dimensions provided on ab edge plans (AI-2842 through AI-					-	
Please confirm that	ed for observed conflicts (highlighted). t the dimensions shown on the at the slab openings are correct.						
SHIMM000-0365	TG0600-103 Interior Wall Thickness Chang	ge Clarification	Open	10/28/2013	11/07/2013		Potentially
From: Shimmick Co	onstruction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
platform future intel Areas 8 and 11. Th 4" walls use same of with RFI T-0587." T which were previou	tal TG0600-0103 eview notes for TG0600-0103, the train rior wall thicknesses are increased in the reviewer has included a note "For 1'- coupler reinf as 14" walls. Coordinate The note does not include 12" walls tally 10". Please confirm if the now 12" tame coupler reinforcing as the 10"						
SHIMM000-0366	Vehicle Ramp Wall Embedded Supports		Open	11/05/2013	11/15/2013		Potentially
	onstruction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:	11/10/2010		1 Otomiumy
Co-Author:	,,	Webber Constitution Er	openeer cayles				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	nestion:	
Please reference at detail10 S1-3204, F T-0835 and attache RFI Response T-08 ramp wall intersects	ttached detail6 S1-3203, attached RFI Response T-0453.1, RFI Response ed SKA-2863. 335 confirmed that the vehicle bike s the foundation wall at a 97 degree camp wall intersects the foundation wall,				, tooopt Jug	goodon:	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

102 of 1053 11/05/2013

30100

Time:

10:53 AM

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
constructability stating that if a member of suc	ch thickness is bent to achieve an angle member's stock angle, it will structurally							
plates togethe Response T-0	irm it is acceptable to weld two (2) 8"x24"x1" r in order to achieve angle prescribed in RFI 835. Reference SKA-2863 for the acute and required. Forthcoming shop drawings will .							
HIMM000-0367	Receptacles at Elevator Pits 19E and 20G		Open	11/04/2013	11/14/2013		Potentiall	ly 🗌
From: Shimmic	k Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	estion:		
lines 19/E and do not show a	ator pits in the mat slab at approximate grid 20/G. The drawings E1-2024 and E1-2025 by receptacles being supplied to these pits. In this is correct.				,			
HIMM000-0368	Conflict of elevator Opening Embed and Fu		Open	11/04/2013	11/14/2013		Potentiall	ly
	k Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:				
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Al-2202 thru A	ice attached Detail4 on SI-7630, attached I-2205 and AI-2207, SI-2202 thru SI-2205 SI-7130, SI-7132, SI-7134, SI-7136 and SI-							
	n no conflict exists between embed Detail 4 and future walls highlighted on attached rawings.							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

103 of 1053 11/05/2013

Time:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
SHIMM000-0369	Column Tie Change from T9 to T12		Open	11/05/2013	11/15/2013		Potential	ly
From: Shimmick	Construction Company, Inc Ben Gordon	To: Webcor Construction LP	Spencer Sayles	Answered By:	:			
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
column ties (90°	it is acceptable to replace the typical T9 or 135° bend on either end) with Tl2 ties both ends). See the attached sketch for							
SHIMM000-204.3	BGP - Locations of Electrical Outlets, Eq	uipment, and Fixtures	Rejected	08/30/2013	09/09/2013	09/05/2013	Potential	ly 🗌
From: Shimmick	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Jackson Tukuafu	Answered By:	Webcor Const	ruction LP Jack	son Tukuafu	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
layout for the Ele	onse, please find attached the revised ectrical Room B2221. This revised layout asions off of the interior walls as			submission. Reand T-0655.	efer to the resp	RFI is not accept onse to RFI T-06		
Please advise if	it is acceptable.			instruct the cor wall dimension any room dime sketch This is not su backgrounds a RFI Fire was indic are included.	om the previous ntractor to coords. It looks like tensions previous bimitted on currons instructed in cated on the coes an acceptable	s revisions of this dinate with archit they have just rer sly included on the rent contract docuthe last revision of lor key but no fire sketch before the	ectural noved ne ument of the	
SHIMM000-314.1	BGP - Embedded Conduits in Columns		Closed	09/04/2013	09/14/2013		Potential	ly 🗌
From: Shimmick	Construction Company, Inc Chris Williams	To: Webcor Construction LP	Jackson Tukuafu	Answered By:	:			
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
0693 was clarifie WSP Electrical D	cing on 9/4/13, the response to RFI T- d. To confirm conversations with the Design representative, the only conduits to columns per the RFI T-0693 response							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

104 of 1053 11/05/2013

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u> Proc
depicted in the recepticals etc	nanagement conduits per the locations e response. All other conduits (power e) are to be stubbed up on the face of the are not to be embedded in the column.					
T- 0851	BGP - Lower Concourse Shoring/Reshor	ring Calculation for Construction Live Loa Closed	d 10/23/2013	11/02/2013	11/05/2013	Potentially
From: Webcor	Construction LP Jackson Tukuafu	To: Turner Construction Compan Gary Krutso	ch Answered B	y: Adamson Ass	ociates, Inc Geo	rge Metzger
Co-Author: Shimmic	ck Construction Company, Inc Scott Bunnell					
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:	
Per Article 3.2 minimum cons and reshoring unclear whether concrete place According to D falsework projefalsework design load (dulist of of D.H. Capproach. Fall	a attached excerpt of Specification Section norete Formwork - Below Grade Package. , Section A.2 of Spec Section 031000, the struction live load design criteria for shoring is 50 psf. The specification section is er the live load of 50psf is prior to or post ement. D.H. Charles (SCCI shoring designer), ects of this application typically approach the gn for 50 psf before concrete is placed and rds, while always maintaining a minimum ead + live) of at least 100 psf. The attached Charles project used the this same design sework calculations are to follow. arles design criteria acceptable?		responsibility formwork desconformance Section 3.2 f conformance ACI 347.2R f associated with the Live placement. Use of "worki reshoring sold be less than operations. Unless meas access to sp Lower Concount the contractor SEI/ASCE-3	: 103 10 00: Design of the contractors and Report of the contractors and Report of the contractors of the co	-37 and ACI 347. eshores including	Dad is sete and letion of nned horing/e or may ent on e entire hd that is per the

From: Webcor Construction LP

T-0001

Joanne Filipas

Article 6 Changes in Work - Clarification

To: Turner Construction Compan Daphne Faulkner

Closed

10/11/2010

10/25/2010

11/03/2010

Potentially

Answered By: Turner Construction Comp Daphne Faulkner



T-0003

From: Webcor Construction LP

301 Mission Wall Specification Format

David Hungerford

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

105 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber <u>Subject</u>	Status	Date Created	Date Answered	Cost Impact	Procee		
Co-Author:							
REQUEST: Reference: Spec Section 00 07 00, Article 6 - Clarifications and Changes in Work Article 6 in the General Condition specification sectio 07 00 defines the procedure for changes in work. Th procedures defined throughout Article 6 are conflictin According to section 6.01.A, CM/GC shall promptly comply and proceed with changes issued by the TJP the form of a Change Order or Field Order. Section 6.02.B states that the TJPA will respond to RFI's with written Clarification deemed necessary and consister the Contract Documents or a Field Order requiring m changes in work. Per section 6.01.A, the CM/GC is t proceed with the Field Order immediately. However, according to section 6.03.A, CM/GC shall submit a Change Order Request within 21 days of written direct Please advise if the CM/GC is to proceed with chang promptly and prior to approval or if the CM/GC shall receive approval prior to proceeding with any change Work.		additions, delections, delecti	etions, or revision or Field Order, uch orders and ded]. Under parield Order in recommended. Under parield Order in recommended. Under submit a COR of CM/GC, the Figoral of the Contract. PA expects the Work as may be dorder, unless the recourse of so do so, within the Lusion, TJPA's Fithe CM/GC is remptly. Neverthe sible incorporate with minimal di	at, "TJPA mayon ons in the Work by CM/GC shall pror proceed with the Varagraph 6.02.B, T sponse to an RFI paragraph 6.03A, within 21 days if in eld Order is considered. CM/GC promptly the clarified or direct instructed otherwill ubmitting a COR value time limit stipulation in the control of the control	mptly Vork," JPA the the the ered to o ed dise. when sted. early at the shall ective		
-0002 Transit Center Building Addr	ss Clarification	Closed	10/20/2010	11/03/2010	10/28/2010	Potential	lly
From: Webcor/Obayashi Joint Venture Joanne	ipas To: Turner Construction	Compan Daphne Faulkner	Answered By	Transbay PMF	PC Alfred	Lau	
Co-Author:					. \Box		
REQUEST: Please clarify the building address for the Transbay Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.	SUGGESTION:		ANSWER: 425 Mission S Answered by TJPA (PMPC) 10/28/2010	Alfred Lau	gestion:		

To: Turner Construction Compan Michelle Smith

Closed

11/17/2010

12/01/2010

Answered By: Turner Construction Comr Kevin Chiu

11/23/2010

Potentially



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

106 of 1053 11/05/2013

Date: Time:

Page:

Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet: C-0001 issued 11/04/10; 301 Mission Interim Screen Wall - General Notes We are in the process of preparing submittals for this project. In doing so we would like to know what specification division format would be most appropriate for us to submit and track these project documents. Please provide us with the desired specification division format as soon as possible so that our submittals can be processed with the proper efficiency.					All submittals for the 301 Mission Interim Screen Wall shall be submitted under the new CSI Division, "301 Mission Interim Screen Wall," that has been created and is available in Constructware under Transit Center Building (140). Within CSI Division "301 Mission Interim Screen Wall," there is a list of available "spec sections" that are equal to the drawing sheet number (and paragraph heading as applicable) that the submittal is called out on. If there are multiple "spec sections" on one sheet, the suffix ".X" has been added. For example, "S-0001.5 Concrete and Reinforcing" shall contain all submittals found on sheet S-0001 under the heading "Concrete and Reinforcing." If there is no suffix , the description of the spec is simply the title of the drawing.			Screen et ittal is et, the ading	
T-0004	Transbay Pro	ject Signs		Closed	12/01/2010	12/15/2010	12/03/2010	Potentia	lly 🗌
From: Webcor C	onstruction LP	David Hungerford	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:Transbay PMP	C Alfred	Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section: 01 15 01 Webcor/Obayashi is initiating project sign procurement per Spec 01 15 01 and will require the artwork and locations for four 4x8 post mounted signs. What are required graphics/logo's for sign fabrication and where shall each sign be located.					will be issued mayor and SI	to CMGC as so FCTA Board med , 2011. Informat	specified per 01 1 on as the names f mbers are confirm ion for locations w	or ed in	

Co-Author:

From: Webcor Construction LP

T-0004.1

David Hungerford

Transbay Project Signs

To: Turner Construction Compan Daphne Faulkner

Closed

04/01/2011

04/11/2011

04/12/2011

Potentially

Answered By:Transbay PMPC

Alfred Lau



During the Fremont Shoring/301 Mission Wall

Coordination Meeting on 12-7-10, it was proposed that a

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

107 of 1053 11/05/2013

Time:

Job:

Partners. The 8' tall plywood barrier wall shall be

constructed in segments such that it can be pushed

10:53 AM 30100

Number	r Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
R	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
S R S s a lo Ir p lo	Reference: RFI T-0004 Spec Section: 01 15 01 Response to RFI T-0004 read "Graphics for Project ID Signs specified per 01 15 01 will be issued to CMGC as soon as the names for mayor and SFCTA Board members are confirmed in early January, 2011. Information for sociations will be issued prior to installation." In a follow up to this RFI, Webcor/Obayashi's is initiating project sign procurement and will require the artwork and sociations for four 4x8 post mounted signs. What are equired graphics/logo's for sign fabrication and where shall each sign be located.			Unfortunately that the name for one of the TJPA Board seat (PJP seat) is still not confirmed at this time, and it may be at least another month before that can be resolved. TJPA/PMPC will ensure this issue is resolved as expedited as possible and inform the Contractor immediately after the information is anounced.			e, and it be	
T-0005	Incorporation of Trade Subcontractor So	hedule Submittals	Closed	12/03/2010	12/13/2010	12/07/2010	Potentia	ily
Fr	rom: Webcor/Obayashi Joint Venture Jim Tomaszewski	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Transbay PMF	PC Jim C	oughlin	
Co-Aut	thor:							
R	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	-		
F S ir 1 th	For TJPA convenience W/O requests that Trade Subcontractor Schedules (Section 01 13 10, 1.2.B) be incorporated into the Monthly Schedule Report (Section 01 3 10, 1.5.A) for the month following issuance of NTP for the specified trade package. A detailed section of the starrative will be clearly identified and contain all of the parrative requirements of Section 01 13 10, 1.2.B.			the requireme first schedule award. Howev construction s 10, 1.5.D will	nt to include a s submittal that is er, the 15 day r		in the r mit a	
T 0000	204 Mission Well Disused Well Devries 5	han and	Classed	40/00/0040	40/40/0040	40/47/0040	Datastia	
T-0006 Fr	301 Mission Wall Plywood Wall Barrier F rom: Webcor Construction LP David Hungerford	roposal To: Turner Construction Co	Closed	12/08/2010 Answered By	12/18/2010 Turner Constru	12/17/2010 uction Comr Jack /	Potential	лу
Co-Aut	**************************************	Tarrior Construction Co	mpan Dapinio i duikiioi		- Lamor Constit	action Compoder /	aums	
	REQUEST: Reference: C-5000 and attached sketch	SUGGESTION:		,		gestion: ed in lieu of the trit eting with Millenni		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

108 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

plywood barrier wall be erected ir shown on sheet C-5000 of the 30									
Screen Wall drawings. This plyw view of the 301 Mission tenants a demolition of the existing screen construction of the new "interim" this it will enable the demolition c removal of the deep footings earl scheduled. In addition, the deletion of the trit approximately 2' of additional driv Mission. Please review the attact the above mentioned plywood ba engineering/architectural comme	ood barrier will block the nd will allow for the early wall (prior to the screen wall). By doing ontractor to start the er than currently on barrier will provide eway width for 301 ed preliminary sketch of rrier and provide		against the new screen wall at the end of each week to accommodate parking. While in position during working hours it will be mechanically fastened to the pavers and to the structure on the back side in order to prevent it from overturning. The exterior face of the wall will be painted "jet mist" to match the existing wall stone. Pilasters will also be painted on the plywood to match the stucco on the existing wall. W-O will submit a dimensioned sketch drawing with plan, elevation and bracing details to be submitted by your subcontractor once he has completed design and before he begins construction.						
T-0007 Field Orde	er #2 - Issued for Programwide	Closed	12/08/2010	12/18/2010	12/13/2010	Potential	Ily 🔲		
From: Webcor Construction LP	Joanne Filipas	To: Turner Construction Compan Daphne Faulkner	Answered By	:Transbay PMP	C Alfred	d Lau			
Co-Author:									
REQUEST:		SUGGESTION:	ANSWER:	Accept Sugg	gestion:				
According to today's OAC meetin with FO#W0-002 are intended for not exclusively for the "BSE Cont Field Order. Please confirm.	project-wide review and		Representative are for the concept, and concept, and concept, and concept, and concept, are the appropriate been re-issue.	mplete scope pe ponsibility to dire e trade subconti	accordance with 0 orformed by CM/0 ect the requirement ractors. WO-002 on 09DEC2010	GC. It is ents to thas			
T-0008 Specificat From: Webcor Construction LP	ion Section 00 04 82 Cert. of Bidd	der Regarding Debarment and Suspensi Closed To: Turner Construction Compan Daphne Faulkner	12/08/2010	12/18/2010 /:Transbay PMP	12/10/2010	Potentia l	Ily		

REQUEST:

Co-Author:

Per the TJPA, specification section 00 04 82, Certification of Bidder Regarding Debarment and Suspension, shall no

SUGGESTION:

ANSWER: **Accept Suggestion:**

Section 00 04 82 ¿ Certification of Bidder Regarding Debarment and Suspension reflects the City



boxes that appear to be initial anchor points for original

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

needed to uncover and remove anchorage, then

109 of 1053 11/05/2013 10:53 AM

30100

Time:

umber Subject			Status	Date Created	Date Required	Date Answered	Cost	Procee
<u> </u>			Status				mpace	110000
longer be used. Please confirm. If this is in fact true, please confirm this removed from the project specifications.		funding arrang needed, Secti Regarding De Responsibility and 00 04 82	gement, meeting on 00 08 13/AP/ barment, Suspe Matters will be	th the current proj USDOT procurer A - 25 ¿ Certificati nsion, and Other used in lieu of 00 er Field Order WO d this week.	ment is ion 04 82,			
0009 301 Mission Wal	I Storage Location for Pla	anter Boxes of 301 Mission Wall	Closed	12/10/2010	12/20/2010	12/13/2010	Potential	
From: Webcor Construction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	Transbay PMP	C Alfred	Lau	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference: 301 Mission Interim Screen Sheet C-1000 On sheet C-1000, there is a note for the that says "(e) precast planter box (typ) to stored". Please designate a location for planter boxes.	(E) Planter boxes be remove and			of the final scr the final wall r complete, but Transbay Terr	exes are to be st een wall. The tir needs to be after does not have to minal is open for	ored for re-use in ning of construction	on for w	
					e for space on L e contractor acco	ot M to store the bordingly.	ooxes	
0009.1 301 Mission Wal	l Storage Location for Pla	anter Boxes of 301 Mission Wall	Closed	12/17/2010	12/27/2010	12/29/2010	Potential	ly
From: Webcor Construction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack /	Adams	
co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
In Transworld's review of the existing pla at the 301 Mission Screen Wall, Transw after close inspection of the site is that the were originally installed with the intent of fixtures. There are connection points for	orld's viewpoint ne planter boxes being permenant			of replacing th Drawing C-20 existing irrigat	em with new on 00 Contractor is ion and electrica	ore these boxes in es. Per Contract to cut and cap all all lines feeding plate plants and dirt if		



waterproofing submittal until after the material is exposed and the existing waterproofing material and application method is determined or provide the specific type of

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

110 of 1053 11/05/2013 10:53 AM

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
plar rein skil box sind relo rend des	cement of these fixtures and there is conter boxes were never intended to be estalled/relocated after the initial installation and care, Transworld intends to relocates with mininmal damage. As a point on the ce these boxes do not appear to be described in the content of the	ation. With all do ate these planter of advisement, signed for uch action will irm that the			salvage preca	st planter boxes	5.		
-0010	EPA Permit Numb	er		Closed	12/15/2010	12/25/2010	12/16/2010	Potential	ly 🗌
Fron	n: Webcor Construction LP	Joanne Filipas	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Transbay Joint	Powers Au Edm	ond Sum	
Co-Autho	or:					-			
REQUEST: Please confirm the EPA permit number is CAR000197558.		SUGGESTION:		waste manifes CAR 0001975 Street, San Fr primary contact	its for the Trans 58. The site ad ancisco, CA 94 of is Edmond Su	gestion: tion number to use it Center constructions is 425 Miss 105. The general m, Engineering oint Powers Auth	ction is sion ator and		
-0011		Waterproofing Submittal	_	Closed	12/21/2010	12/31/2010	12/29/2010	Potential	ly
	m: Webcor Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered By	:Turner Constru	iction Comr Jack	Adams	
Co-Autho	or:								
	QUEST:		SUGGESTION:		ANSWER:	Accept Sug			
Regarding the waterproofing submittal, since the driveway is still covered with pavers the existing material and application procedure is unknown to Transworld. Therefore a submittal which matches the existing condition can not be provided until Transworld knows additional information. Please confirm that it is acceptable to defer the				the waterproof exposed and t	ing submittal ur	i/Transworld can ntil after the mate erproofing materi ned.	rial is		



T-0014

TG03 BSE IFC Drawing Set

Masashi Kojima

From: Webcor/Obayashi Joint Venture

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

111 of 1053 11/05/2013

Time:

10:53 AM

30100

01/06/2011

01/16/2011

Answered By: Transbay PMPC

01/07/2011

Potentially

Alfred Lau

Closed

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed material and application method required. T-0012 301 Mission Wall - Requesting Specifications for Utility Plug 12/21/2010 12/31/2010 01/04/2011 Closed Potentially From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu Answered By: URS Corporation David Fyfe Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference: 301 Mission Wall Drawings sheet C-5000 Contractor to determine dimensions of temporary plug in the field and propose material appropriate to meet There is not enough information to determine the material the requirements specified in note 5 on sheet C-5000. and dimensions for the utility plug at the 301 Mission Wall. Please provide specifications and product data for the "Utility Plug" on sheet C-5000, sheet note 5. T-0013 **BSE IFC Table of Contents Discrepancy** Closed 01/05/2011 01/15/2011 01/11/2011 Potentially From: Webcor Construction LP Joanne Filipas Answered By: Transbay PMPC To: Turner Construction Compan Daphne Faulkner Alfred Lau Co-Author: ANSWER: REQUEST: SUGGESTION: **Accept Suggestion:** Ref IFC TOC dated 12/15/10 (attached) 1. 00 01 10 Rev 3 and 00 01 15 were released to W/O on 07JAN2011, rectifying issues cited in the RFI. We have received the revised Issued for Construction (IFC) drawings and specifications for the BSE package. 2. Since it is TJPA/PMPC's opinion that the formatting The table of contents has check marks to indicate added of the revision box for the technical sections is specification sections. Specification section 02 41 19. Pile adequate and appropriate as is. Change to match the Removal is not noted with a check mark but a revised abbreviated version of the Div. 00 and 01 sections specification was issued. The excavation and backfilll (31 should be formally requested by W/O such that 23 10) section was not re-issued, however, a check mark Design Team and TJPA/PMPC could fully review that is next to it. and agreed to from a QA/QC point of view. Also, the revision logs at the end of each section need to be revised to show only the revision number and dates. Please advise and re-issue.

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

112 of 1053

30100

Time: 10:53 AM

30100 - Transbay Transit Center Project

Numbe	er <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Au	uthor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
We received multiple versions of PDF Drawings G-0000, A-0000, A-0005, and A-0010 (see the attached images) for TG03 IFC Drawing Set. Please confirm the following answer from PMPC via email on 1/5/2011. "Use the 1/3/2011 CD for the PDF files. Use the 1/4/2011 CD for the DWG and DWF files. Disregard the PDFs on the 1/4/2011 CD."					Use the 1/4/2	'Use the 1/3/201 011 CD for I DWF files. Disr	1 CD for the PDF egard the PDFs c		
T-0015	301 Mission Wall -	Concrete Mix Design		Closed	01/07/2011	01/17/2011	01/13/2011	Potential	ly
F	From: Webcor Construction LP	David Hungerford	To: Turner Construction (Compan Kevin Chiu	Answered By	y:URS Corporati	on David	l Fyfe	
Co-Au	uthor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Attached submittal package TG review comments and letter from concrete			, ,		nts "Concrete and n Sheet S-0001,			
:	Per the comments received on the concret submitted in submittal package TG1901-00 confirm that the admixture for air entrainme compliant with ASTM C260.	1, please			"Maximum wa by weight, slu water reducel	ımp shall be two r or superplastici	shall not exceed to six (2"-6") inch zer may be added	es. A d on	
Transworld has been informed by their concrete supplier that ASTM C260 requires a mix of 6% air entrainment and such amounts of air entrainment are specified only in freeze/thaw areas for durability. The Bay Area is generally not considered a freeze/thaw area and therefore a mix with 6% air entrainment is not typically used. The concrete supplier, Bode Concrete, has provided a letter from BASF related to this specific issue.						siump is verified 1/2% for durabili	by inspector. Ent ty."	rained	
T-0016	BSE - Current Train	nbox Structural Drawings		Closed	01/14/2011	01/24/2011	01/18/2011	Potential	ly 🗌
	From: Webcor/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction (Compan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Au	thor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	In order to accurately design and locate elements of the bracing, trestle and bridges, please provide the most upto-date and reliable architectural and structural drawings					or Construction -	documents dated		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

113 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
of the train	cad files). Also, drawings (incl box and any other component has the potential to conflict wi	t of the transit							
T-0017	BSE - CDSM Wall	I Alignment		Closed	01/14/2011	01/24/2011	01/21/2011	Potentiall	ly 🗌
From: Web	cor/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	- Ш
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
CDSM sho to installati provided to designing a current alig are finalize	nse to pre-bid RFI #177 indicate oring line alignment is expected fon". We request the revised reports of the second second in the second se	d to change "prior e-alignment be are currently ased on the after mill orders			have been mo site. See the show the revis For your refer sketches that Trainbox struc issued for cor are: SKS -00 Phase 1, SKS Phase 1, SKS	adified at the Sc attached sketch sed shoring wall ence, see the a indicate the revetural columns a struction in the 88 Foundation I 5-0099 Foundat 5-0090 Foundat 5-0091 Foundat SKS-0092 Low	inbox plan and exputhwest corner on SKGT-0001-R1 I alignment. Itached structurarised in-progress and shearwalls the future. These structure - Zone 02 Fition Level - Zone (ion Level - Zone er Concourse Level - Event - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse Level - Zone er Concourse Level - Zone (ion Level - Zone er Concourse - Zone er C	f the , that I at will be sketches Plan 03 Plan 07 Plan 10 Plan	
				<u>.</u>					
T-0017.1	cor Construction LP	th Wall Alignment Cons Joanne Filipas	-	Closed	09/22/2011	10/02/2011	10/04/2011	Potentiall	у
Co-Author:	COI CONSTRUCTION EF	Joanne Filipas	To: Turner Construction Co	mpan Gary Krutsch	Allsweled by	-Adamson Ass	ociates, Inc Geo	ge wetzger	
REQUEST			SUGGESTION:		ANSWER:	Assent Core			
	RFI T-0017 and attached Sket	tches	SUGGESTION.		_	Accept Sug attached to pre	gestion: vious RFI's reflec	t the	
	nfirm the attached sketches iss with CR T-005B are "For Const				confirmed CD	SM shoring alig			

notes indicating "draft in progress" and "not for regulatory approval, permitting or construction" will be removed on a future issuance of these sheets.

Text indicating "draft in progress" and "not for regulatory approval, permitting or construction" shall not be transferred to revised "Issued for Construction" drawings.

Documents that are included in Change Orders shall



REQUEST:

Reference: Attached pages from the 2008 Building Code

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

114 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

Proposed anchorage system can not be evaluated

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					be considered	a Contract Doo	cument.		
-0018	BSE - Waler to CI	OSM Wall spacing		Closed	01/14/2011	01/24/2011	01/24/2011	Potential	ly 🗌
From: We	bcor/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balf	four Beatty Infrastructure, Inc.	Ural Yal							
REQUES			SUGGESTION:		ANSWER:	Accept Sug	nestion:		
train box is spacing fr Balfour Be situation, because of the second of t	by be a potential conflict with the reinforcement. Spec 31-55-00 all from CDSM Wall to face of waler eatty past experience with a very it is felt that the 6" space is not sof the following: does not appear to be enough rough the waler and the CJ for a lap so inforcing as depicted on sheet See the attached drawing. gap is difficult to snake reinforce amaging the waterproofing attact mmends making the space between M wall and the waler equal to the deliminate conflicts with the redinforcement splicing and reinforcement was equal to the waler was equal to the wall this	llows 6" minimum r, but based upon y similar sufficient com between the splice of the S -3201. ement through thed to the wall. reen the face of e wall thickness. car and walers, cing congestion. e the space ckness.			use mechanical interrupted by whaler is 6" middle from the proposed spacing conce trainbox wall, Submit details ARUP Resport on the impact seeing more disystem and as Adamson Assibe evaluated by submitted. He attachments similar will need to be	al couplers for the whaler for the contract of the	aler to CDSM wale by TT regarding evaluation/commeme for review. In team cannot coor's proposal, with pring wall internal	rement re I the nents. mment hout bracing I cannot g and this RFI roofing	
	dvise whether to continue the de minimum space or advise if the								
-0019	301 Mission Wall	- Stone Panel Anchora	ge to 301 Mission's Screen Wall	Closed	01/18/2011	01/28/2011	01/31/2011	Potential	ly 🗌
From: We	bcor Construction LP	David Hungerford	To: Turner Construction Cor	mpan Kevin Chiu	Answered By	URS Corporati	on David	d Fyfe	
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 115 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
original 301 Missi panels does not use the stone panels the 2008 Building fasteners for mas thickness used on the existing, which according to sect stone panel system that should be use the panel system that should be used to be a simple system.	utilize an anchoring sto the wall. In addition code does not specionry less than 2-5/8 in the new wall will mind his approx 10mm the in 6.3 of the 2008 Even for the Transbay led is the adhesion a lat Transworld can upone panels in lieu of	system of the stone system for mounting on, section 6.2.2.4 of ify mechanical "thick. The stone atch the thickness of ick. Therefore, Building Code, the Interim Screen Wall pplication. se the adhered mechanical				prior to inspection of the retained stone sample. Please provide retained samples of stone from the demolished 301 Mission Street Screen Wall in order to confirm dimensions of the existing stone and evaluate proposed anchorage system.					
T-0019.1	301 Mission W	•	e to 301 Mission's Screen Wall	Closed	02/07/2011	02/17/2011	02/10/2011	Potentia	ly		
From: Webcor Co	nstruction LP	David Hungerford	To: Turner Construction Comp	an Kevin Chiu	Answered By	:URS Corporati	on David	Fyfe			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference: RFI T-0019 and attached photos RFI T-0019 requested samples of stone from the demolished 301 Mission Street Screen Wall in order to verify thickness of the stone that will be used on the wall, and confirm that a mechanical system had not been used to mount the stone. A sample has been shown to URS and pictures of that sample are attached to this RFI. Please confirm that mechanically fastened panels are not necessary and that a thin set adhesive application will be an acceptable means to setting the stone on the new screen wall.					required. Loc 6000 detail D provide comp	ation of face of s is a contract rec lete detailing of w the location of	ning stone panels tone as shown or juirement. Please proposed attachm the face of stone	A- ent of			

T-0020 BSE - Demo Contract Shoring Wall and Bracing

Closed

01/27/2011 02/07/2011

02/02/2011

Potentially

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

Answered By:Turner Construction Comp Daphne Faulkner



BSE NTP #02?

Please provide as-builts of the wall location if is to remain.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

via as-builts. As-builts will be provided as completed.

Existence of similar walls in Zone 2 and 3 not

116 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

				,		,			
ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
REQUEST: Reference Sheet D-2203 and Specification Section 02 41 01 The BSE contract drawings shows a temporary shoring and bracing that is installed by the demo contract and subsequently removed by the BSE contract. In order for Balfour Beatty to properly plan their work, they request the following information: 1 - The shoring design drawings for the shoring wall on the east side of Fremont St. (shown on D-2203) that was submitted by the Demo Contractor. 2 - As-built location of the above mentioned shoring wall. 3 - Bracing drawings and details that submitted for the basement wall rakers that are schematically shown on detail 1 of sheet D-5100 and details 1 & 2 on sheet D-5100			SUGGESTION:		Interim Shori Constructwa 2 - Wall is cu indicated on 3 - Bracing d	ing Wall REV 3 vere today 2/2/11. Irrently being core the approved should approve the approved should be approved and approved should be approved and approved appro	Submital #31200 vill be transmitted	through cation	
5102									
0021		known Concrete Wall		Closed	01/27/2011	02/07/2011	02/04/2011	Potential	ly
	or Construction LP Ir Beatty Infrastructure, Inc.	Nhi Tran Ural Yal	To: Turner Construction Com	ipan Daphne Faulkner	Answered B	s y: URS Corporat	ion David	d Fyfe	
REQUEST: Reference D 01	Drawing Set D and Specification	on Section 02 41	SUGGESTION:		ANSWER: Full extent of confirmed.	Accept Sug	gestion:	vall not	
Based upon Balfour Beatty observations of the site, there appears to be a concrete wall approximately 18in wide that is outside of the existing terminal basement walls adjacent to the 301 Mission Property line and the east side of Fremont St. that is not shown on BSE contract drawings or the existing Terminal drawings.					contractor (E of unforesee removal as s	BI) has been dir n foundation wal hown in contract ith removal of ad	s Demolition Proje ected to remove e I that are within lir t documents to a d jacent structures	extents nits of depth	
Zone 4 base		•			Fremont Stre unforeseen o	eet to remain in p concrete foundati	te foundation wall place. Portions of ion wall that are e	xposed	
Will this wall	I be removed by the demo con	ntract prior to			but that are t	o remain in place	e are to be docum	ented	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 117 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Bridge, Depa Francisco To (pages 27-32	artment of Trinago opography Maps 2) are the best a	gulation and Surve dated August 193 vailable informatio	eys, San 34 on at this	
ion Wall Along Fremont St. Closed	03/01/2011	03/11/2011	03/15/2011	Potentia	lly 🗌
To: Turner Construction Compan Daphne Faulkner	Answered B	y:Turner Constr	uction Comr Jack	Adams	
SUGGESTION:	Fremont Stre attached. The Bridge, Depa Francisco To the best avai provided in R existing cond the sidewalks factory/busin As-Built Fren Bros/Malcoln also attached previously tra	foreseen concre- beet to remain in p e attached San la artment of Triang pography Maps lable information RFI T-0021 Rev.0 crete full baseme is remaining from resses. mont St. Shoring in Inc. the soldier d. Survey points ansmitted to We	ete foundation wall blace as shown or Francisco-Oaklan gulation and Surve dated August 193 n at this time were D. This is believed ent wall extending n pre Transbay wall installed by r pile and tie back for the I-Beams v	n d Bay eys, San 34 are to be under Evans wall is	
ati	lation Wall Along Fremont St. Closed To: Turner Construction Compan Daphne Faulkner	confirmed. A Bridge, Depa Francisco To (pages 27-32 time and have lation Wall Along Fremont St. Closed 03/01/2011 To: Turner Construction Compan Daphne Faulkner Answered B SUGGESTION: ANSWER: Portion of un Fremont Stre attached. Th Bridge, Depa Francisco To the best avai provided in F existing cond the sidewalk factory/busin As-Built Free Bros/Malcolr also attached previously tre	confirmed. Attached San Fra Bridge, Department of Trinag Francisco Topography Maps (pages 27-32) are the best at time and have been provided. Interest and the provided station Wall Along Fremont St. Closed 03/01/2011 03/11/2011 To: Turner Construction Compan Daphne Faulkner Answered By:Turner Construction of unforeseen concreferemont Street to remain in pattached. The attached San Bridge, Department of Triang Francisco Topography Maps the best available information provided in RFI T-0021 Review existing concrete full basement the sidewalks remaining from factory/businesses. As-Built Fremont St. Shoring Bros/Malcolm Inc. the soldied also attached. Survey points	Confirmed. Attached San Francisco-Oakland E Bridge, Department of Trinagulation and Surve Francisco Topography Maps dated August 193 (pages 27-32) are the best available informatic time and have been provided for your informat Interpretation Compan Daphne Faulkner Answered By:Turner Construction Compan Daphne Faulkner Portion of unforeseen concrete foundation wall Fremont Street to remain in place as shown on attached. The attached San Francisco-Oaklan Bridge, Department of Triangulation and Surve Francisco Topography Maps dated August 193 the best available information at this time were provided in RFI T-0021 Rev.0. This is believed existing concrete full basement wall extending the sidewalks remaining from pre Transbay factory/businesses. As-Built Fremont St. Shoring wall installed by Bros/Malcolm Inc. the soldier pile and tie back also attached. Survey points for the I-Beams verviously transmitted to Webcor-Obayashi	Created Required Answered Impact Confirmed



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 118 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber <u>Subject</u>				Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
-0022	Quality Managem	ent System - Org. Chart		Closed	01/28/2011	02/07/2011	02/08/2011	Potential	ly 🗌
From: Webc	or Construction LP	Joanne Filipas	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Transbay PMF	PC Jim (Coughlin	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref - Attach	ed Org. Chart						chart is with TJF		
	tify the appropriate personnel d org. chart found the in the pr nt System.				RFI. What W/ organization of	O activity require hart in the QMS	erstand why this is res this information is deliberately gotention of changi	n? The eneric	
-0023	Construction Man	ager Quality Plan		Closed	01/31/2011	02/10/2011	02/07/2011	Potential	ly
From: Webc	or/Obayashi Joint Venture	Bob Garcia	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
reference to quality plan"	ragraph 8.5.5 of the QMS man "the construction manageme". Please advise when the Co Quality Plan for the TTC will be	nt consultant's nstruction			Construction I		ity Plan from CM ght is due 2/14/1		
-0024	Re-bracing for Re	vised SW Corner Alignmen	t	Closed	02/02/2011	02/11/2011	02/11/2011	Potential	ly
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfou	ır Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference S 55 00	Sheet GT-1112 and Specificat	ion Section 31	SUGGESTION:		ANSWER: ARUP Respon	Accept Sug	gestion:		
The respons	se to RFI T-0017 showed a re t the SW corner of zone 1 and						g is acceptable p		
the structura implied that	alignment at the SW corner of zone 1 and the addition of the structural shear walls on wall X1-1. The RFI response implied that BBII's cross-lot bracing needed to be redesigned so there are no conflicts with the concrete					satisfied. This in stiffness require	ncludes, but is no rements. The	ot limited	
columns and shear walls. In order to minimize the cost and impacts as a result of this change, BBII suggests using rakers for the re-bracing in this corner.						ess of the raker e permanent tra	s will be affected in box wall and	by the	
•	ot bracing would be installed a				mat slab and	tiedowns.			
the initial ex	cavation (ref stage 10 on GT- hown on the attached sketch			•		st include input fro the impact on th			



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

119 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number S	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Then for the re-bracing could be used in locatio	stage 12 and stage ons shown in attach on this concept be	permanent structural elements. 2 and stage 15 rakers In in attachment sketch #2. As discussed at the Feb 9, 2011 TG03 Subcontractor - Design Team Coordina						eting, it can dinated n the	Proceed
					the response	by Arup, and foussion with Arup	ponse: We have und this is consist . No further comi	ent with	
T-0025 E	3SE - Request for	Recent Groundwater M	onitoring Data	Closed	02/02/2011	02/12/2011	02/11/2011	Potential	ly 🗌
From: Webcor Construc	tion LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Balfour Beatty Inf	rastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification 7-2 (attached)	n Section 31 55 00	and GDR Table			See attached		groundwater rea	dings.	
The Project GDR table reading in Feb of 2010. readings taken within th	Can BBII receive								
T-0026 3	301 Mission Wall -	Sample chin of paint or	olor for exposed concrete	Closed	02/07/2011	02/17/2011	02/10/2011	Potential	lv 🗆
From: Webcor Construc		David Hungerford	To: Turner Construction Com			URS Corporati			·, []



RFI T-0027 included a response sketch directing dowels to be in line and set 6" from the south face of the existing

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 120 of 1053 11/05/2013 10:53 AM

Time: Job:

10:53 AM 30100

um	ber Subject		<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
	REQUEST: Reference: A-5000 note 6	SUGGESTION:		ANSWER:		gestion:		
	Note 6 on sheet A-5000 states, "Color of paint for exposed concrete to match sample chip provided by TJPA representative". Please provide color sample chip per this note.			exposed cond		. Color of paint for natch color of pain planter boxes.		
-002	27 301 Mission Screen Wall - Dowels for	Screen Wall	Closed	02/08/2011	02/18/2011	02/18/2011	Potential	ly
	From: Webcor Construction LP David Hungerford	To: Turner Construction	n Compan Kevin Chiu	Answered B	y:URS Corporat	ion David	Fyfe	
Co-A	Author:							
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Attached pictures Upon laying out the dowel embedment locations for the new concrete wall, the locations are very close to the edge of the existing manholes and vault lids. Transworld is concerned that the location of the doweling is too close to these existing items and does not believe it to be the intent. Please see attached pictures showing the areas of concern. Please respond ASAP with direction on where to place the dowels, as Transworld has no slack in the schedule to accomodate any stoppage of work.			Mission existi attached sket exterior face Verify location prior to drilling centerline of	dition for the doing basement perch. Dowels share of existing base of existing base of existing base of existing base.	wels drilled into the erimeter wall is should be drilled 6 inches ment perimeter was remain within 1 ir e wall.	own on es from all. wall	
-002	27.1 301 Mission Screen Wall - Dowels for	Concrete Wall: Layout Accepta	ance Closed	03/29/2011	04/08/2011	04/05/2011	Potential	ly 🗌
	From: Webcor Construction LP David Hungerford	To: Turner Construction	n Compan Daphne Faulkner	Answered B	y:URS Corporat	ion David	Fyfe	
Co-A	Author:							
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: RFI T-0027				d in the field that	#8 dowels were d		
	Please confirm that per site walk on 03/22/11 with Danny Lo and Erik Liu of Transworld, David Hungerford with Webcor-Obayashi, and David Fyfe and Christine Baudier of URS, that the layout of the core holes for the #8 dowels in the concrete wall are acceptable.			vault wall and concrete cove	that #8 dowels	erior face of the e will have a minimus acceptable.		



In laying out the location of the new concrete wall,

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

121 of 1053 11/05/2013

Time: Job:

structures, new concrete wall to be shifted south so

that the south face of new concrete wall is flush with

10:53 AM 30100

umber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
which exactl each of the Pleas is acc	pelow. Due to the existing condition was poured aginst a shoring wall a ly straight, the dowels are laid out to other and therefore vary in dimension south face of the existing basemer e confirm, as it is understood, that the exptable. Dowels are being set in expdiate response is requested.	nd therefore not be in line with on measured off at wall below. the existing layout							
-0028	BSE - Bracing St	iffness Calculation Conf	irmation	Closed	02/08/2011	02/18/2011	02/09/2011	Potential	ly 🗌
From:	Webcor Construction LP	Nhi Tran	To: Turner Constru	ction Compan Daphne Faulkner	Answered By	:Arup	Kevi	n Clinch	
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
sample The re	ence Specification Section 31 55 00 le calculations esponse to pre-bid RFI #TG0300-00	58 provided an			determining th	ogy shown in the internal bracing that shown in	nese calculations ng system stiffne response to pre-	ss is	
syster calcul	ion for calculating the stiffness of th m. Attached is BBII's designer's sa lation for stiffness for the proposed ng system.	mple "template"			not included in conclude that	n the RFI. It is to all elements aff	nal bracing system herefore not poss fecting the stiffne been considered	ible to ss of the	
interp	requests a confirmation that the des retation and use of the provided still	fness calculation			included in the	analysis.			
	rect, prior to progressing further sub lations and procuring steel bracing				conformance	with other desig	peen reviewed for yn criteria. A more rtaken when the		
Additi RFI.	onally, BBII requests an expedited	response to this				re issued as a s			
-0029	301 Mission Scre	en Wall - Sub Surface S	tructure Conflict with N	ew Wall Location Closed	02/09/2011	02/19/2011	02/18/2011	Potential	ly
From:	Webcor Construction LP	David Hungerford	To: Turner Constru	ction Compan Kevin Chiu	Answered By	:URS Corporat	ion Davi	d Fyfe	
Co-Author:									
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer	ence: Photograph attachments 1-8				To accommod		location of existi	ng	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 122 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

Transworld has determined that the new concrete wall will extend over existing sub-surface structures, which is not per the contract documents. Please reference attached photos.

First, there are two manhole covers that are incorporated in concrete rings. These rings conflict with the location of the new wall and are included in photographed attachments. Due to the size of these concrete rings, a portion of the ring will be buried by the new wall. Second, the steel frame of the existing electrical vault doors is of similar condition as the manhole covers; this condition can also be seen in the photographed attachments.

Please confirm that Transworld is to proceed with the plan location of the new concrete wall which will cover and bury a portin of these existing sub-surface structures.

the exterior face of the existing 301 Mission street basement perimeter wall.

Interfering regions of existing sub-surface structures (manhole rings and vault sides) at the base of new concrete wall shall be incorporated into new concrete wall. All surfaces of interfering concrete regions to be incorporated into new concrete wall shall be prepared as bonded construction joints. Verify functioning of manhole and vault lids/openings are not obstructed by new concrete.

Contractor to provide chalk line at updated south and north faces of new concrete wall for verification of updated location in field by TJPA representative prior to construction of new concrete wall.

See attached RFI coordination sketch.



From: Webcor Construction LP

Co-Author:

David Hungerford

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

123 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0030	301 Mission S	creen Wall - Detail required	for concrete sleeve installation	Closed	02/09/2011	02/19/2011	02/18/2011	Potential	lly
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	:URS Corporati	ion Dav	id Fyfe	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attache	ed 1/C-5001 and ph	noto			Per contract of	documents;			
indicates that the e concrete slab, to w embedment. Howe photograph in attac cover is actually a p assembly, and wra	contract document existing manhole sithich is to be drilled ever, please refer to chment 1 which sho part of a subsurfact pped with waterprojul and instructions at the sleeve and a degree of the sleeve and a de	ts. Detail 1/C - 5001 ts above an existing I into with 1 inch to the attached tows the manhole te concrete ring toofing. Please for the installation of	e installation	Closed	Dowel into ex #3 hoops @ 1 Prepare existi into new sleet Cast in place manhole (con Provide Kade	g concrete and disting concrete of 10" O.C.; Ing concrete surve as bonded concrete and steel e SS 1/8" circular 03/06/2011	ar grate satin fini	nax) with rporated ; over	ily [
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	URS Corporati	ion Dav	id Fyfe	
Co-Author:									
3/4" to 1", results in to be 4" thick at the	ment from the edge existing manholes this dimension less the new cast in place point closest to the that the sleeve is to	to the face of new s form material (+/-) lace concrete sleeve ne wall . Response to b be 6" thick. Please	SUGGESTION:		concrete slee wall. Remaini not in conflict thick per cont Contractor sh between face face of new C	ve is in conflict ving portions of nowith new interinract documents.	expansion joint recreen wall and deve.	screen sleeve all be 6" naterial	
T-0031	301 Mission S	creen Wall - In-ground light	ing	Closed	02/09/2011	02/19/2011	02/21/2011	Potential	lly

To: Turner Construction Compan Kevin Chiu

Answered By: URS Corporation

David Fyfe



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 124 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
		SUGGESTION: ANSWER: Accept Su Additional information is rec understand/interpret existing response to this RFI. Please provide all available conditions that pertain to thi limited to the following; xtures are larger rickness of the xtures are larger rickness of the fixtures; 2. type and size of existing conduit/conductor; 3. sketch illustrating alignm conduit/conductor, including termination points and pow 4. sketch illustrating thickne construction where new ligh preconnect for the I - In-ground lighting David Hungerford To: Turner Construction Compan Daphne Faulkner Answered By:URS Corpora								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: No	ote 10 on C-2000							oilitata a		
note 10 on pa the contract d construction.	round lighting as anticipa ge C - 2000 must be sul lesign cannot be accommon The contract design requenting the contract design requenting match the exis	bstituted because modated in the new uires:			nformation on exis	sting				
	e is that the existing ligh accommodated within the				type and size of existing electrical conduit/conductor;					
lights be disco lights. The issue her light fixtures a be removed. I	sting electrical lines servennected so that it is recovering is that the electrical lines embedded in the confugor removal of the existing electrical lines ower.	nes for the existing crete curb that is to sting concrete curb,			 sketch illus conduit/conduit termination p sketch illus 	strating alignmer uctor, including joints and power strating thickness	unction boxes, source; and, s of existing/new			
Please provid ground lightin	e a new detail and instrug.	uctions for the in-								
-0031.1	301 Mission W	/all - In-ground lighting		Closed	03/31/2011	04/10/2011	04/06/2011	Potentia	lly 🗀	
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Comp	oan Daphne Faulkner	Answered B	:URS Corporati	ion David	d Fyfe	- Ш	
Co-Author:								-		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			

Reference: Attached photos and sketch

Response to RFI T-0031 requested additional information.

- 1. See the attached pictures for the information known about the lights that were removed.
 - 2. The existing conduit is 3/4"
- 3. Attached is a sketch and a photo showing the approximate location of the existing conduit.

There is one existing conduit on the south side of the wall protruding from the soil coming from the basement wall. The electrical conduit is approximately 6 feet east from the

ANSWER: Accept Suggestion: We note that the Contractor has installed no

We note that the Contractor has installed new electrical conduit and outlet boxes within the new concrete wall.

To document the as-built conditions of all work and to verify conformance with all applicable codes and standards, Contractor shall submit drawing(s) illustrating full routing of all conduit(s), including alignment, conduit material type, couplings/fittings, outlet boxes, etc. Drawings shall detail the connection between existing electrical line and new electrical line and connection between new electrical line and new lights/fixtures.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

125 of 1053 11/05/2013

Time: Job:

Data

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Cos	
Number Subject Status Created Required Answered Impact	<u>Proceed</u>

western transformer vault vent opening. Attached you can see the pictures of this conduit that is currently sticking out below the scaffolding planking.

4. Please advise the location and mounting details for the new lights.

Drawings shall be sufficiently detailed to document all electrical work is in conformance with all applicable codes and standards, and shall be sufficient for permitting and/or inspection of electrical work.

All conduit and/or boxes shall be set so as to provide minimum 1¿ clear from all rebar, anchor bolts or other embedded structural steel items. Outlet boxes located in new concrete wall shall be fully coordinated for direct connection with the new light(s)/fixture(s).

It is our understanding that the existing 301 Mission driveway/roadway section (approximately 3¿ paver over 1; sand bed over 4; to 8; concrete topping slab) does not allow use of new lights/fixtures matching original lights/fixtures. It is recommended use of the Ligman Paragon square 186mm (50338-N-35) light/fixture, or approved equal, in lieu of the original light/fixture (Hydrel M9410). The new Ligman Paragon square light fixture (or equivalent fixture) shall be placed adjacent to new concrete wall and shall be mounted exposed above ground (not in ground) with the base of new light fixture located aligned to top of paver(s). See attached coordination sketch.

Please confirm the use of Ligman Paragon square 186mm (50338-N-35) light(s)/fixture(s) can be fully coordinated with all work.

See attached product data for Ligman Paragon square 186mm (50338-N-35) light/fixture.

In addition, in response to item 2 of RFI No.T-0031, Contractor please coordinate with 301 Mission Building management to ensure that the new light shall be connected correctly to the existing power supply.

T-0031.2 301 Mission Wall - Light Fixtures Closed 06/29/2011 07/09/2011 07/13/2011 Potentially

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Daphne Faulkner

Answered By: URS Corporation

David Fyfe



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

126 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Proceed
		_					

Co-Author:

REQUEST:

Reference: Attached light specs

Per field conversations with 301 Mission staff, the light fixture proposed in response to RFI T-0031.1 is not acceptable. Webcor-Obayashi has coordinated with 301 Mission management personnel and the lighting attachment to this RFI has been requested by 301 Mission. Confirm that the attached light specs are to be installed at the stucco slot locations.

SUGGESTION:

ANSWER: Accept Suggestion:

URS provided four lighting options to Webcor-Obayashi on April 22, 2011 to coordinate with 301 Mission management personnel. It is noted that the lighting attachment to this RFI (Allscape BL-81) is similar to one of the four lighting options provided by URS (Allscape BL-80).

The Allscape BL-80 model (with 39 watt/240 volt, metal halide lamp and prismatic tempered glass lens) was selected by URS because it provides photometric qualities and operating electrical amperage comparable to the original lighting fixture (Hydrel M9410, 35 watts/277 volt, metal halide lamp).

It is noted that the lighting attachment to this RFI, Allscape BL-81 model (with 150 watt/277 volt, metal halide lamp and prismatic tempered glass lens) may provide photometric qualities and operating electrical amperage not similar to the original lighting fixture. It is also noted that the Allscape BL-81 model luminaire is 14.5" wide, which is greater than the 14" width stucco slot(s) specified in the contract documents.

Prior to order and/or installation of the lighting attachment to this RFI (Allscape BL-81, 150 watt/277 volt metal halide lamp) Contractor to confirm the following:

301 Mission building existing electrical circuit/feed that is to be used is sufficient to handle electrical load required by the Allscape BL-81, 150 watt/277 volt metal halide lamp(s);

14.5" width of the BL-81 luminaire(s) can fit within the stucco slot(s) constructed, note contract documents specify 14" wide stucco slot(s); and photometric qualities of 150 watt lamp (e.g. lighting intensity/brightness) is acceptable to/preferred by 301 Mission management personnel.

T-0032 301 Mission Screen Wall - Tie Beam Below Grade Conection to Screen Wall Closed 02/09/2011 02/19/2011 02/23/2011 Potentially

From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu

Answered By: URS Corporation

David Fyfe



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

severed by Evans Bros see attached sketch C-5000

127 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

umber Subject		Statu	_	ate created	Date Required	Date Answered	Cost Impact	Proce
Co-Author:								
REQUEST: Reference: Attached photo See attached picture of 301 Mission S construction in progress. This picture 2008, and shows a lateral support tie connected to each vertical steel mem wall. These tie beams are not shown need to be cut so that the existing wa others, as this scope is below and out contract. Please provide details for the	was taken Nov of beam below grade ber of the screen on the plans and Il can be removed by t of Transworld's	SUGGESTION:	R T e R D 3 ir ir ir 	rie beams sha xisting 301 M Restoration of Detail 1 on atta .13 (rev 6, 04 information at information.	waterproofing in ached 301 Miss /04/2008) is the this time and here	David Fyfe leanly at exterior fasement perimeter is required. sion Street drawing be best available as been provided Kevin Chiu	g S3- for your	
-0033 301 Mission S	oreen Well Congrete Dom	o Scope of Work Clarification Close		2/14/2011	02/24/2011	A, a CR will be iss		by 🖂
From: Webcor Construction LP	David Hungerford	To: Turner Construction Compan Daphne Fa				uction Comr Jack	Potential	'y
Co-Author:	2 a.u.a.r.ago.r.o.a	10. Tunici Construction Compan Daprine 12	aukiici		Turrer Constit	detion complace.	-tuaiii3	
REQUEST: Reference: attached text document		SUGGESTION:	А	NSWER:	Accept Sug	gestion:		



T-0035

From: Webcor Construction LP

BSE - Additional Trainbox Drawings

Nhi Tran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeen/Obayasin Sonit Ventare

Page: Date: 128 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					Detail B.				
T-0034	301 Mission S	creen Wall - Change of wall	way from original logistics	Closed	02/14/2011	02/24/2011	02/22/2011	Potential	ly 🗌
From: Wel	bcor Construction LP	David Hungerford	To: Turner Construction Compa	ın Daphne Faulkner	Answered By	y:URS Corporati	ion Davi	id Fyfe	
Co-Author:									
from what entire logi The original expension original origi	Itions of the worksite have of Transworld originally bid an stical plan for the execution all logistics plan, as well as tas, show a walkway along the disting screen wall. Now, the oved and nothing exists except all four pages of Exhibit A This change of condition affer execute the contract work. The workspace to erect the struct of finishes. This condition now on to our contract such that ag/driveway on the North side diarea. The exact impact is red because there are ongoing demolition and removal of contribution even greater characteristics.	and have changed the of this contract work. The contract work is a South side of the entire walkway has ept an open pit. That is attached to exist Transworld's enere is no longer stural steel and the worequires a Transworld may use the of current entire the structures on work. If the current ener deteriorated by allenges will arise, sonable wrksite from the	SUGGESTION:		building tenar times. Per 2/17/11 fi approved by 3 advance, one used short tent of the TJPA is property owned driveway. At a the following; - scheduled double traffic controdriveway to be barricades, flaextent of ten restoration. Contractor sh measures (sig during use of Representative owner.	eld meeting, if comments of the comments of th	shall remain oper r through traffic a coordinated with a cet property owney may be tempor for deliveries. submit a Logistic and 301 Mission of approval prior to stics plan shall in on of driveway us accluding extent of d/required signs, d, le wall dismantling excessary traffic or fencing, flagmer exted by the TJP ission Street proporary barricade were related to the street proporary barricade were	at all and er in rarily ss Plan Street o use of aclude se; f, ag and ontrol n, etc.) A poerty	

To: Turner Construction Compan Daphne Faulkner

Closed

02/16/2011

02/26/2011

Answered By: Adamson Associates, Inc George Metzger

02/22/2011

Potentially



structure if BBII indentified where to take the cuts. Below

is a list and the attached shows where BBII would like

these taken

CUT # - DESCRIPTION

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 129 of 1053 11/05/2013

Time: Job:

and is not issued as a construction document.

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Autl	nor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Billion Billio	eference Sheet S-3201 and Specification BII believes that they do not have enough rawings of the Train Box to properly designating system. BBII states that the archited 1-6000 through A1-6231 lack detail regarmensions of structural components (i.e. but the structural section as is on S-3201 and there appears to be song C line, however that beam is not idealable. BII is requesting additional structural section drawings, specifically: A dimensioned longitudinal elevation of the simbox, showing the most current location earns. Full cross section of typical trainbox as we continued to the section of the SW corner showing elevations of any ramps or locations with ground floor slabs. BII would prefer CAD files if possible, how ard copies will work.	h detailed gn a conflict-free ectural sections rding beams, walls, in BBII currently a beam running ntified in the tion and the entire in and depths of rell as any other es, high and low ring dimensions where there are			shoring wall is 50% Construction of the constr	s in progress an ction Documents 3D REVIT Proportion TJPA and TJP, mational purposity, W/O review the with the in-propodel. This 3D Ries more informa	structure inside the disubject to changes on December 20 ogram Computer Mark A shared this mode es on the progress. We suggest that the possible location than you wou of sections reque	ge. At 9, 2010 Model lel with s of the for ros for rogram mputer	
T-0035.1	BSE - Request Stru	ucture Section Drawings		Closed	03/15/2011	03/25/2011	03/23/2011	Potentia	lly 🗀
	om: Webcor Construction LP	Nhi Tran	To: Turner Construction Com				ociates, Inc Georg		, _—
Co-Autl	nor: Balfour Beatty Infrastructure, Inc.	Ural Yal		·				. 0	
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	eference attached sheet				requested lo	ched in-progress cations. This info	design document ormation is being	s at the	
	s discussed in 03/09/11 TG03 Design Te AI said they would provide sections of the				•	eference information	ation for use in some some some some some some some some	truts	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 130 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

- 1.A Full length section along Grid A
- 1.E Full length section along Grid E
- 1.J Full length section along Grid J unfolded along wall alignment
- 2 Full width section at Column Line 3
- 3 Full width section at Column Line 7
- 4 Full width section at Column Line 10.5
- 5 Full width section at Column Line 18 (CL First St)
- 6 Full width section at Column Line 23
- 7 Full width section at Column Line 26 (CL Freemont St)
- 8 Full width section at Column Line 30
- 9 Full width section at Column Line 34.5 (Beale St.)
- 10 Section at "flare?"
- 11 Section at "flare?"

Please provide either electronic 2D CAD files at for each section where BBII can dimension, or hardcopy drawings that are fully dimensioned.

T-0036	BSE - Bracing	Load Discrepancy	Closed	02/16/2011	02/26/2011	02/18/2011	Potentially
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By	√ :Adamson Asso	ociates. Inc Geo	rae Metzaer

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

Reference Sheet GT-1110, Specification Section 31 55 00, and attached memo

Please see the attached memo from BBII's bracing design engineer, PB&A.

PB&A are finding more than a slight discrepancy between the bracing loads given in the tables of GT-1110 when compared to loads they calculated using the "design profile" earth pressured diagram as shown on the same sheet.

As required by note 6 on GT-1110, BBII is continuing their design with the forces given in the tables, however BBII feels it is prudent to note the variances.

SUGGESTION:

ANSWER: Accept Suggestion:

See the attached reply.

Attached Response from ARUP - 02/18/2011 Kevin Clinch

The internal bracing system shall be designed to satisfy the criteria specified in the contract documents including the strut loads given in the tables on GT-1110.

Our review of the calculations included with the RFI was limited to that necessary to understand the Contractor's questions. The calculations have not been reviewed for conformance with the contract documents. A more complete review will be undertaken when the calculations are issued as a



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

acceptable upon review and acceptance by AECOM and the private utility. AECOM suggests a

coordination meeting between BBII, AECOM and the

131 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
BBII requests	confirmation that the force	s given in the			submittal. Add	litional calculati	on documentatio	n and /	
tables of GT-1	1110 are correct.					to interpret the	tor¿s engineer w software output		
0037	BSE - Request fo	or Utility As-Builts		Closed	02/17/2011	02/28/2011	03/01/2011	Potentia	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:AECOM Techi	nical Service Eric	Zagol	
o-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheets U-2021 to U-2023, U-4005 BBII is requesting as-built data for the phase 1 electrical ductbanks at First St. and Fremont St. BBII is particularly interested in receiving the coordinates, elevations, width and depths of the ductbank where they intersect the CDSM wall as shown on utility drawings U-2021 through U-2023 Additionally, BBII would like to receive more info on the phase 2 utilities shown in section X&Y on U-4005: - What material are these ducts and are they encased? - Can the spacing shown on U-4005 be shifted to accommodate bridge girder spacing?					Relocation of 2020, U-2021, Fremont stree constructed by information fro to date and wi Sections X amin the propose the Transit Ce corridors on F shown need to interim bridge Only PG&E ar incorporated a structure. The PG&E "NIP" (I section, will be the Transit Ce corridors. PG&E has pro	Utilities Project U-2022 and U- ts have been co / PG&E. AECC om PG&E on wh Ill provide upon d Y on RUP sho d final locations nter substructu irst and Fremor b be incorporate structures on F and Verizon Phase and supported fire remaining utili PG&E New Buse constructed for nter substructu uposed steel co the interim bridge	own on the AEC((RUP) Plans she (2023 on First an onstructed or will DM has requested that has been conneceipt. The control of	ets U-d be d as-built structed s utilities uction of t utility utilities by the streets. I to be ridge CG and d in ion of t utility utility	
					Proposed mod	difications to uti	lity alignments (h		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

132 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					private utilities utilities suppo		e the interim bridç	ge and	
Г-0037.1	BSE - Request fo	r Utility As-Builts		Closed	03/24/2011	04/04/2011	04/13/2011	Potential	ly 🖂
From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:AECOM Techn	nical Service Eric 2	Zagol	, П
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal						-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	FI #T-0037 and Sheets U-20 023	020, U-2021, U-			PG&E's subst Streets is sch	ructure work on eduled to be cor	First and Fremor mplete by April 28 awings following		
	le BBI with as-built informati been constructed to date, as RFI #T-0037				completion of		awings following		
Γ-0037.2	BSE - Request fo	r Utility As-Builts		Closed	03/24/2011	04/28/2011	04/25/2011	Potential	ly 🗌
From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction Com	npan Daphne Faulkner	Answered By	Turner Constru	ction Comr Daph	ne Faulkner	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference RF	FI #T-0037.1						T0037.1. Asbuilts PGE. This issue h		
Please provide BBI with as-built information from PG&E on what has been constructed to date, as mentioned in the response to RFI #T-0037 and RFI#T-0037.1					being denoted	I in the open issu	ues log and does he issuance of the	not	
Г-0038	BSE - Shear Wall	s for Rebracing		Closed	02/17/2011	02/27/2011	02/22/2011	Potential	
From: Webcor	r Construction LP	Nhi Tran	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	- 🔲
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal					•	- -	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference res attached draw	sponse to RFI #T-0024, Sheving	eet GT-1112, and			Thornton Tom	asetti Response	e:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 133 of 1053 11/05/2013

Time:
Job:

Cost

: 10:53 AM 30100

30100 - Transbay Transit Center Project

vumber	Subject	Status	Created	Requirea	Ariswered	ımpact	Proceea

The response to RFI #T-0024 noted discussions that took place during the TG03 BSE Trade Subcontractor - Design Team Coordination Meeting, about utilizing the permanent shear wall as re-bracing during the train box build out.

Attached is a sketch showing a staged wall construction and strut removal sequence that BBII believes would eliminate the need for re-bracing along the SW Wall.

details 2 and D/S-5000. Is it acceptable to use a base

plate with dimensions 14" x 14", in lieu of the 14" x 18" per plan below the HSS 10" x 10"? See attached sketches of proposed anchor bolt mounting options A and B. If acceptable, please choose the detail you prefer.

Is this sequence acceptable?

The conditions depicted in Stage 12 & 13 of sketch GT-1112 for shearwalls to be used as re-brace elements will cause overstressing of the mat slab and excessive movement of the Trainbox wall, and therefore, is not acceptable. Note however, that once the Lower Concourse slab is constructed and develops the design strength, the upper portion of the shearwall above the Lower Concourse slab can be used as re-braces. See attached SKS-0101 that illustrates the load path of the shearwall.

Date

Date

ARUP Response:

18".

The use of the permanent concrete shearwalls as bracing is acceptable provided the design criteria specified in the construction documents is satisfied. This includes, but is not limited to, the bracing stiffness requirements. The effective stiffness of the shear walls will be affected by the stiffness of the permanent train box wall and mat slab and tiedowns.

The response to this RFI must include input from Thornton Tomasetti regarding the impact on the permanent structural elements.

					pormanone ou dottarar oromonio.				
T-0039	301 Mission S	creen Wall - Base Plate Dim	nensions	Closed	02/17/2011 02/27/2011 02/23/2011 Po	tentially			
From: Webc	or Construction LP	David Hungerford	To: Turner Construction Compan Dap	ohne Faulkner	Answered By:URS Corporation David Fyfe	_			
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion:				
Reference:	Reference: 2/S-5000, D/S-5000, attached sketches				Neither options A nor B are acceptable for the anchor				
See the 301	See the 301 Mission Screen Wall drawings, specifically				bolt mounting system. Provide a base plate as detailed on S-5000 that has the dimensions of 14" b	V			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 134 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0040	BSE - Proposed	Bracing Removal Sequ	ience	Closed	02/22/2011	03/04/2011	02/23/2011	Potential	ly 🗌
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion: ARUP Response: The question in this RFI is a substitution request and				
Reference Sheet	GT-1112 and attached	proposal							
involves removing structural slab and designer has done (see attached). The lower levels after deflection than the	posed sequence for bra the two lower layers of d fillets are poured. BB e analysis at each stag he results show that rer the slab has been pour e fully excavated condit or case west and case ly.	If bracing after the II's shoring e of construction moval of the two red produces less tion. The results			should be sub procedures of Considerable design team r the suggestion We understan	mitted following utlined in the spetime and coordinembers is requal. Arup will control it will be a top BSE Subcontrol.	the appropriate	the evaluate e issue. at the	
tremendous value - Eliminating the concrete trade su the lower walls ar - Eliminates a hor which significantly - Allows for better construction joint around shoring el - Allows for unobs and soffit shoring reduces construct	izontal construction join reduces construction waterproofing product, and reduces patching of	by: ne bracing and e construction of Int in the lower wall cost and duration. by eliminating a of the membrane the lower walls slab, which also design team to							
Γ-0041	BSE - COR and F	PCO Forms		Closed	02/23/2011	03/05/2011	03/16/2011	Potential	lv 🗆
From: Webcor Co		Nhi Tran	To: Turner Construction Co				ction Comr Dap		- 🗀
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal	Turnor Continuous of Co	mpan Bapimo radikilor	,	Tamor Conourc	onon compaq	THIS T GUILLION	
•			SUGGESTION:		Webcor/Obay	Accept Sug forms provided I ashi has establi er sheet for cha	oy TJPA. shed an accepta	able	



two 2 x 4 crossmembers which will be nailed to the 2 x 4 backing studs. This assembly can be seen in the attached

pictures pages 1 and 2.

The assembly noted above is option 1.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

4. Secure plywood to 2x4 members with galvanized

5. Extend plywood sheet min. 6" beyond edge of ventilation opening (all four sides); and,

nails or screws at min. 6" spacing;

135 of 1053 11/05/2013 10:53 AM

30100

Time:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
0042	301 Mission S	creen Wall - Elevation of co	ncrete wall	Closed	02/24/2011	03/06/2011	03/10/2011	Potential	ly 🗌
From: Webco	r Construction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	URS Corporati	ion Dav	id Fyfe	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
elevation of the indicates that +/- 2'- 2" to 2' of the concret height of the west towards height of 2'- 8 result in a wa west end). The contract draw Transworld w 20.5 inches to existing screen.	the following information he new concrete wall. De the concrete foundation - 8". Based on this refere the wall will be the East powall will then decrease as Fremont St. (the west si at its tallest point (the collaboration of 20.5 inches a his is less than 2'-2" as in ings; therefore please could be building a concrete of 2'- 8". As a point of contain wall had this exact sart the low and 2'- 8" at the		Contract documents on the drivewer plans provided 301 Mission Sminimum 18" paver/driving sA/S-4000, "To Contractor to please adjust above top of party above top of party should be said to the said of the said o	on west end is not ments show the from 2'-2" +/- to ay elevations she by Millennium Street, and allow high concrete wasurface for vehich op of (E) Vault VVIF, Adjust Contop of concrete	e new concrete w 2'-8" +/ This is sown on the exist Partners, develoring for a code re- vall from top of cle safety. As no Vall Elevation materies Wall Acco- wall to be minim	vall based ing oper for quired oted on ay Vary, rdingly", um 18"			
0043	301 Mission S	• •	It Plug at Utility Vault Opening	Closed	02/25/2011	03/07/2011	03/23/2011	Potential	ly
From: webcol	r Construction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered by	URS Corporati	ion Dav	id Fyfe	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
5000; Transw proposals as original existinat the original completely op prevent acces C-5000, Tran backing stude the existing of adhered with	e transformer vault plug a rorld has been asked to see to how a plug should being ventilation for the vau planters. This original votes and secured only by see, but not water or air. Assworld construction propes attached to the left and pening. These 2 x 4 bacl powder actuated nails. See Transworld construction	submit some installed. The lt was open to the air entilation was a metal grate to so located on page oses to install 2 x 4 right vertical walls of king studs will be spanning across the			based on the amendments; 1. Provide 2x spacing; 2. Face of all face of existin plywood shee number 5 beld 3. Plywood sl	all provide the to Option 4 solution 4 cross member 2x4 members sign vault wall to fat beyond ventilation); heet shall be two	ransformer vault in with the followers at max. 12" o. shall be flush with a cilitate extensionation opening (see to layers of 5/8" food layers with was	c. n outside n of e or a total	



REQUEST:

Reference: Attached pictures

The new 301 Mission screen wall location is to be laid out

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

136 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

ANSWER:

Accept Suggestion: Voids below the existing embed plate shall be filled by

use of grouting applied by use of low pressure grouting methods to deliver grout into void spaces.

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee	
would further Option 3- Nail entire vault ve Option 4 - Nai plywood to pre Note: Transworestricting airfi to have this o	led additionall 2x4 crossme restrict air flow to the (e) va on a plywood sheet that went opening. If on a plywood sheet and wevent water intrusion as we could Construction is concern low into a vault that original pen vent. We are not familient will have on the existing	ult. ould enclose the vaterproof the II. ned about ly was designed ar with any impact			6. Seal perimeter of plywood sheet and existing concrete vault wall with appropriate sealant to ensure weather tightness (all four sides). In addition, Contractor is required to ensure sufficient air flow is provided to existing underground vault/electrical equipment at all times. Existing ventilation openings (one per vault) shall not be plugged until new ventilated manhole covers per C-5000/C-5001 are installed. The new ventilated manhole covers must be protected from damage and/or soiling from concreting activities of the adjacent stem wall. The existing ventilation openings must be plugged prior to start of BSE activities to restrict entry of water and/or construction debris into the existing underground vault/transformer spaces.					
T-0044	BSE - Pile Mat SI	ab Connection		Closed	02/25/2011	03/07/2011	03/02/2011	Potentia	Ily 🗀	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger	- Ш	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal				-	·			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Sh	eet S-3003					ne trestle support 03 does apply to	ts the bridge, ther	efore		
Mat Connection Please confirm	tail 2 on S-3003 - "Slip Det on" n that this detail only applic idge as stated.				detail 2/3-300	os does apply to	the blidge.			
T-0045	301 Mission Scre	en Wall - Void Below	Existing Embed	Closed	03/02/2011	03/12/2011	03/17/2011	Potentia	IIv 🖂	
. 5570			· ·						,	
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Co	omnan Danhne Faulkner	Answered R	y: URS Corporati	on David	l Fyfe		

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeonobayasin John Venture

Page: Date: 137 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

over an existing embed plate. At that plate #8 rebars are to be epoxied per RFI T-0027. Currently in the field the embed has been cut where the dowels are to be installed and holes are being drilled to the required 30" depth. It has been discovered that there are voids below the exitsing embed plate of up to 1.5". See attached pictures for some locations where this condition occurs. Please advise if this void is to be filled.

The result following grouting shall be that all voids are fully grouted. All grout materials shall be non-shrink grout. Pressure grouting shall be performed by qualified personnel who have experience in low pressure grouting steel plates. Contractor shall submit qualifications in the form of resumes identifying project experience utilizing low pressure grouting for personnel performing the work.

The Contractor shall provide a submittal identifying the non-shrink grout mix proposed for use and a narrative providing a full description of the means and methods proposed to result in grout flow from input point to output point including methods to result in prevention of trapped air (air is to be displaced by grout flow). A narrative describing means and methods shall specifically include identification of proposed equipment and the proposed porting and venting to allow installation of non-shrink grout and displacement of trapped air.

Where the embedded plate is not continuous (where the plate is not provided), the existing concrete surface shall be prepared meeting all requirements of a bonded construction joint.

- David Fyfe 03/16/2011

========Additional

03/13/2011

- Kevin Chiu 03/17/2011

03/03/2011

T-0046 BSE - CLSM Slump

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

Closed

Answered By: Adamson Associates, Inc George Metzger

03/07/2011

Potentially

Co-Author: Balfour Beatty Infrastructure, Inc.

From: Webcor Construction LP

Ural Yal

SUGGESTION:

REQUEST:
Reference Specification Section 03 30 01

The CLSM slump range for the Buttress Shoring Excavation Work is listed between 10" to 12". BBII has

ANSWER: Accept Suggestion:

03/03/2011 Kevin Clinch

ARUP Response - A CLSM mix with a slump range of 7" +/- 1" is acceptable pending our review of the



immediately.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 138 of 1053 11/05/2013

Time:
Job:

will coordinate with Singer Assoc, TJPA's outreach

consultant, to invite and/or coordinate the possible attendance of adjacent property owners. Please

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
concerns about the CLSM mix segregar placement with such a high slump. Plea acceptable to provide a CLSM mix with 7" +/- 1" in lieu of the 10" to 12" called to Specification.	se confirm if it is a slump range of			Owner's Testi	ng Agency to ref dures for checkir	will work with the ine the Field Qual ng slump and	ity	
-0047 BSE - Joint Pred	construction Survey		Closed	03/03/2011	03/13/2011	03/11/2011	Potentiall	ly 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	Transbay PMP	C Alfred	Lau	
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Attached is the list of buildings that BBI joint survey, in accordance with specific 40. BBI requests confirmation of this lis Please provide BBI a contact for coordi survey effort. BBI would like to do this warch 14, 2011.	has identified for ation section 01 15 t.			preconstruction Arup will share becomes avait accompany A Contact Steph	on surveys at the e the information lable. A represe rup at the remain	ue, performing int properties listed la with contractors ntative from BBI n ning site surveys. 5.227.9700 for a visits.	by BBI. as it	
-0047.1 BSE - Preconstr	ruction Joint Survey Exte	eriors of Buildings	Closed	03/21/2011	03/31/2011	03/28/2011	Potential	ly \square
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	Transbay PMP	C Alfred	Lau	, _[]
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal				•			
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Reference RFI #T-0047 and attached e Please confirm the exterior of the buildi with item 1.5 D in the specification 01 1 is also covered by the response of RFI the interior of the building.	ng, in accordance 5 40 Joint Survey,			posed relating adjacent build conducting an Arup for any f	RFI T-0047 was to the preconstring interiors (basid the feasibility)	specific to the que ruction survey of sements) that Aru for the contractor j	p is	
If not, please contact "property owners the construction excavation" and arrangements				photographing	g of adjacent buil	ding exteriors per		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

139 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
				submit a list of properties and planned schedule of the examination/photography activities ASAP for record and for coordination.						
Γ-0048 BSE - Building Den	nolition in Zone 1		Closed	03/03/2011	03/13/2011	03/10/2011	Potentiall	у 🗆		
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	pan Daphne Faulkner	Answered By	Turner Constru	action Comp Jack	Adams	- Ш		
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference CR-T-005 and Sheet SKGT-000 CR T-005 appears to require additional built				this time - esti	Domain" legal p	process is incomp on date is 5/29/1 ract for 60 Tehan	1.			
demolition. Please provide a schedule for t work and an estimated completion date as potentially impact BBI's schedule and work	this will			issued and a	schedule cannot nolition complet	B Howard has not t be provided. The ion date is betwe	е			
Γ-0049 BSE - Constructwa	re		Closed	03/03/2011	03/13/2011	03/03/2011	Potentiall	у 🗌		
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	pan Daphne Faulkner	Answered By	Turner Constru	uction Comr Daph	ne Faulkner			
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference Specification Section 01 10 40						n "View Only" acc er to schedule acc				
Specification Section 01 10 40 Article 1.6 E "TJPA will provide Trade Subcontractors w necessary training and access to Construc	ith the			and training. V information flo TJPA will not	N/O is still respo by to and from the accept informati	onsible for manag heir trade contraction entered by tra	ging the ctors. ide			
BBI would like to schedule this training and arrangements for access. Please provide a this process started.						d submittals are t mission to TJPA.	o be			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

140 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered B	y: Turner Constr	uction Comr Daph	nne Faulkner	
o-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference CR T-0	005B		SUGGESTION:		ANSWER: URS will issu	Accept Sug	gestion:	veek.	
Design Team Coo February 23, 2011 pricing and make be required for the requesting revised impacted by this of limited to, geotech These drawings we changes and prove of the General Coo In addition, due to times, BBII propose the ordering of addess of the Change this will reduce the receipt of the revises shoring wall beam	ined at the TG03 Trade ordination Meeting No. 1, in order for BBII to preparations to order e changed work, BBII is decontract documents for change, specifically inconsical and demolition defill allow BBII to accurate pricing that complianditions. In increasing steel priceses a revision to CR Traditional shoring wall be corder being negotiate e overall cost of this cheed drawings that incluntable (GT-5101), BBII this work and finalize	3, held on rovide meaningful materials that will so respectfully for all work that is studing, but not drawings. Attely identify the es with Section 6 so and long lead -005B to allow for earns prior to the ed. BBII believes hange. Upon lide the new I will be able to			Some parts of URS/PMPC/I ARUP Responsive res	George Metzger f the question n TJPA/Turner. Inse: Inse regarding the drawings and the e "CDSM Shorir of change. The vict simply extende Il length. It is poy change +/- 1 ft collowing demoliti soldier pile and ground surface schedule. GT-2101 which esponse to RFI-Collowing drawings clouded to show -1110, GT-2000 d as shown and 5105 (the section e deleted as the a section will be approximate dist e from the chang sued as SKGT-Collowing challer ground surface schedule.	eed to be answer	edule is on GT-	

From: Webcor Construction LP

T-0051

Daniel Foudy

Returned Submittal Comments

Closed To: Turner Construction Compan Daphne Faulkner 02/16/2011

02/26/2011

03/10/2011

Potentially

Answered By: Turner Construction Comr Daphne Faulkner



T-0053

From: Webcor Construction LP

BSE - Waler Standoff

Nhi Tran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

141 of 1053 11/05/2013

30100

Time:

10:53 AM

30100 - Transhay Transit Center Project

Closed

03/09/2011

03/19/2011

Answered By: Adamson Associates, Inc George Metzger

03/14/2011

Potentially

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref Spec s	ection 01 13 10				These respon	ses are accepta	able and will be		
the submitt	to the Action and Distribution (sal specifications, Submittals shone of the following:	section 1.11) of nall be returned			incorporated into a revised specification section 01 13 10 to be issued in the future.				
No Excepti	ons Taken								
Make Corre	ections Noted								
Revise and	I Resubmit								
Rejected									
"For Recor	eceived submittals back as "No d Only". Please confirm these and should be incorporated in ons.	responses are							
T-0052	BSE - P Parcel			Closed	03/09/2011	03/19/2011	03/10/2011	Potential	llv 🖂
	cor Construction LP	Nhi Tran	To: Turner Construction Com				uction Comr Jack		шу
	our Beatty Infrastructure, Inc.	Ural Yal	10. Turner Construction Com	ipan Dapine Faulknei	Allawered D	riumei Constit	action Compact	Audilis	
REQUEST	·		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Specification Section 01 14 19	, 1.4			Parcel P is av	ailable for Web	cor-Obayashi use	e in	
According to the referenced specification section, Parcel P is available as of November 1, 2010 and will be available until 2013. BBI was informed that this parcel will not be available for this contract.			accord with Spec. 01-14-19 - see shared use with TJPA.		see attached ske	etch for			
	ifirm.								
Please con									

To: Turner Construction Compan Daphne Faulkner



spacing addressed BBI's concern with only having 6" clear

Coordination meetings have re-raised the issue and BBI

verticals (in the next contract) would be used to eliminate

and not cost effective for over 3000 If feet of wall and 4

the conflict. BBI believes that this seems to be impractical

believes it requires additional consideration. The response

between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team

in RFI #T-0018 said that rebar couplers in the wall

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

142 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber <u>Subject</u>	Status	Date Date Cost Created Required Answered Impact Proce
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal		
REQUEST: Reference Sheet GT-1110, RFI #T-0018, and attached photos and drawings Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical and not cost effective for over 3000 If feet of wall and 4 levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later. BBI is requesting to please re-evaluate and provide direction. Attached is a suggested detail as well as examples where it has been used before, for your consideration.	SUGGESTION:	ARUP Response: Provided the criteria shown in the Contact Documents is satisfied, the proposal is acceptable. Additionally: Provided this proposal is acceptable to the TJPA, the internal bracing design submittal shall include the details and calculations associated with this proposal. The soldier piles shall be checked for the increased moment due to the eccentric strut reaction. This check shall be reported in the internal bracing submittal. No increase in torsional loading on the soldier pile is permitted. End of Comments
F-0053.1 BSE - Waler Standoff From: Webcor Construction LP Nhi Tran	Closed To: Turner Construction Compan Daphne Faulkner	03/09/2011 03/19/2011 03/22/2011 Potentially Answered By:Transbay PMPC Alfred Lau
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal REQUEST: Reference Sheet GT-1110, RFI #T-0018, and attached photos and drawings Previous RFI #T-0018 - BSE - Waler to CDSM Wall	SUGGESTION:	ANSWER: Accept Suggestion: REVISED RESPONSE TO RFI #T-0053 TJPA revises response to as follows:

The W/O and BBI proposal to increase the spacing between the waler and CDSM wall is acceptable to TJPA since it meets the requirements in 31 55 00 1.5 DESIGN subsections I, J, K, L, and M. This design is for Contractor use. This proposal from the Contractor creates multiple benefits for W/O and BBI including The waler is out of the way of the rebar and this will help W/O with their coordination with the Train Box concrete work subcontractor.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 143 of 1053 11/05/2013

Date: Time:

Cost

Job:

Date

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject	Status	Created	Required	Answered	Impact	Proceed

levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later.

BBI is requesting to please re-evaluate and provide direction.

Attached is a suggested detail as well as examples where it has been used before, for your consideration.

W/O benefits since more rebar can be installed with this increased spacing which saves time to the schedule and costs associated with the waterproofing and rebar installations.

Date

BB benefits because it appears that there is a decrease to the number of times that struts and walers must be moved.

BB benefits in that strut length remains essentially the same when restrutting after Train Box wall sections are completed.

TJPA and the Program Management Team suggest that W/O and BB proceed with a 3' - 6" spacing or whatever dimension is necessary to insure that the walers are not within the Train Box Wall profile. If the walers position requires rework, the Contractor and SubContractor take full responsibility to meet design requirements with no change to contract cost. TJPA agrees to this suggestion from the Contractor to offset the waler from the CDSM wall to allow for the construction of the Train Box wall. TJPA requests that the Contractor proceed on this issue as a no-cost resolution to these RFIs. If W/O finds that this Internal Bracing for Shoring Wall design does have an additional cost to TJPA, the funds will come from the CM/GC Contingency Fund.

T-0053.2 BSE - Waler Standoff Closed 03/09/2011 03/19/2011 03/28/2011 Potentially

From: Webcor Construction LP Nhi Tran

To: Turner Construction Compan Daphne Faulkner Answered By: Transbay PMPC Douglas Jacobson

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

Reference Sheet GT-1110, RFI #T-0018, and attached photos and drawings

Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall

SUGGESTION:

ANSWER: Accept Suggestion:

TJPA and Program Management Team expect that the Contractor and Sub-Contractor meet the design requirements for the Design/Build of the Internal Bracing as specified in 31 55 00 INTERNAL BRACING FOR SHORING WALL and per the Contract Drawings. As subsection 1.8 M. states,

"Walers are to be placed against the shoring wall on spacers to provide a minimum of 6 inches of clearance between the waler and the shoring wall.



Subject

For the temporary bridges, BBII will be using the attached

structural bridge deck material from Big R Bridge. The troughs are filled completely with AC to the top of the decking, and an overlay will be applied over the top. BBII would like to use a 2" minimum overlay, resulting in an overall cross section with an average 4" thickness. Bridge geometry requirements specified in section 01 53 13 - 1.3.A.6 will be met without reducing the overlay thickness

Number

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 144 of 1053 11/05/2013

Time: Job:

Cost

10:53 AM 30100

Impact Proceed

30100 - Transbay Transit Center Project

Status

Date

Created

Date

Required

(AC) overlay per contract documents (specification

section 01 53 13, 1.3.B.3).

Date

Answered

verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical and not cost effective for over 3000 If feet of wall and 4 levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later. BBI is requesting to please re-evaluate and provide direction. Attached is a suggested detail as well as examples where it has been used before, for your consideration.		The 6 inch clearance is to provide a continuous path to allow the outboard curtain of reinforcement of the permanent wall to be routed through this space without requiring use of couplers or added lap splices at walers" The Submittal for Internal Bracing needs to address the concerns expressed by the reviewers including Arup in their response to RFI T-0053 which states: "Provided the criteria shown in the Contact Documents is satisfied, the proposal is acceptable. Additionally: Provided this proposal is acceptable to the TJPA, the internal bracing design submittal shall include the details and calculations associated with this proposal. The soldier piles shall be checked for the increased moment due to the eccentric strut reaction. This check shall be reported in the internal bracing submittal. No increase in torsional loading on the soldier pile is permitted."
T-0054 BSE - AC Overlay at Temporary Bridge	es Closed	03/09/2011 03/19/2011 03/25/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: URS Corporation David Fyfe
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference Specification Section 01 53 13, 1.3.A.6 and attached material information		2" minimum asphalt concrete (AC) overlay not acceptable. Provide minimum of 4" asphalt concrete



And if maintenance is needed, when would it start? 3. Are the typical fence and K-rail shown in the section the same ones that are protecting the perimeter, or an additional row that creates a walkway that has both sides fenced, protecting the public from construction and vehicle

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

145 of 1053 11/05/2013 10:53 AM

Time: Job:

30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
below the 2"									
Please confir	m this is acceptable.								
-0055	BSE - Request fo	or Soil Parameters		Closed	03/09/2011	03/19/2011	03/14/2011	Potential	ly 🗌
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference St 55 00	heet GT-1110 and Specifica	ation Section 31			ARUP Respor	nse:	- Ш		
on 03/09/201	BSE Design Team Coordina 1, Arup said they would pro eters for use in BBI's model.	vide BBII with soil				es of the soil prosis are attached	operties used in l.	Arup's	
Please provid	de BBI with this information								
-0056	BSE - CR T-006			Closed	03/09/2011	03/19/2011	03/10/2011	Potential	lv 🗆
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By		ction Comr Dapl		
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal	, , , , , , , , , , , , , , , , , , , ,		•				
REQUEST:	,		SUGGESTION:		ANSWER:	Accept Sug	nestion:		
Reference Cl	R T-006		000020110111				ontrol of the site	and is	
	Request documents do not ntenance responsibility for				to coordinate subcontractor	maintenance du for pricing.	ration with their		
 Should B If this walkwa minus rubble required. 	following questions: BII include pricing for main ay is going to get placed on , a fair amount of maintena	top of the 3" nce would be							



REQUEST:

Reference Sheet GT-5202 and Specification Section 31

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

146 of 1053 11/05/2013 10:53 AM

30100

Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost	Procee
	Gusjest			otatus				<u> </u>	11000
	to have this information in ord cing for this Change Request								
T-0056.1	BSE - CR T-006			Closed	03/24/2011	04/03/2011	04/12/2011	Potentia	ily 🗌
	or Construction LP	Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered By	Turner Constru	iction Comr Jack	Adams	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Please confi overlay are e at the TG03 3/23/2011. A discussed at complete co	RFI T-0056 and CR T-006 firm that any necessary repair excluded from CR T-006 sco BSE - Design Coordination I Also, please provided addition t the meeting as well. Finally py of Demo Contractor;s ch R T-006 to fully understand th y.	pe as discussed Meeting on nal sketches we please provide a ange order			including thes as specified in The AC overlaper RFI 24.2. using crushed used by EBi at AC overlay wat applied no less. However, the required repair there is a failupedestrian tratequipment), the attention of Tacontract.	e sidewalks- del contract docun ly was installed. The basements concrete, comp de verified by IS as installed per Is than 3" thick. CM/GC's concer if there is a fail re of the AC over the AC over this should be IPA Rep at that 12, EBi Proposal	ntenance of site bris, cleaning, granents. by Demolition Cower filled per covaction methods in Special Inspecial Inspecial File 24.2 with aspertance of this asphaerlay (if caused by valks-not construct on the site of the	entractor contract were tor. The shalt elt. If yuction	
T-0057	BSE - Verticality	and Sonic Testing on	Drilled Piers and Shafts	Closed	03/10/2011	03/20/2011	03/11/2011	Potentia	lly
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ae Metzaer	

ANSWER:

ARUP Response:

Accept Suggestion:

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 147 of 1053 Date:

11/05/2013 10:53 AM

Time: Job:

30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

63 29

Specification Section 31 63 29, 3.8.I.3 states "The contractor shall perform a test to determine verticality of the steel tubes, or drilled holes, that are going to be used for the sonic tests."

BBII has been advised by a number of testing firms that verticality tests cannot be performed on steel tubes or PVC tubes tied to steel cages. Detail 12 on Drawing GT-5202 shows 4 equally spaced PVC or steel tubes tied to reinforcing steel cage. BBII has also been informed that, as of now, there is not a specification in existence that mentions vertical tolerances of CSL tubes.

BBII is proposing to do the following in lieu of formally testing the CSL tubes for verticality:

- 1. BBII will make sure that the tubes are parallel and symmetrically placed. The cages and tubes will be properly inspected for positioning, spacing, parallelism prior to placing the cages into the hole. This is the most important inspection to ensure accurate CSL results.
- 2. Since the tubes are tied directly to a vertical cage, and the cages and casings are tested for verticality anyway. BBII will do a visual inspection to ensure that the tubes are sufficiently "vertical" for CSL testing purposes prior to placement of tremie concrete.
- 3. BBII will make sure that the cages are carefully lifted in a manner that limits the deflections of the cage to ensure that the CSL tubes do not fail at the joints.

Please confirm if this is acceptable.

The verticality of the holes / tubes must be checked to properly interpret the CSL test results. If verticality tests cannot be performed on steel tubes, consider using PVC tubes. The integrity of the PVC tubes can be maintained by filling them with water and inserting alignment bars into them prior to concrete pouring.

BSE - Underground Utilities Removal on Beale Street T-0058

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

Closed

Answered By: Turner Construction Comr Jack Adams

03/23/2011

Potentially

03/21/2011

03/11/2011

ANSWER:

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

Reference Sheet D-2230

REQUEST:

From: Webcor Construction LP

Per Drawing D-2230 Note 2, "Unless specified otherwise all utilities to be removed have already been cut and

SUGGESTION:

Beale Street Utilities PGE and ATT. Substructure installation and work is incomplete. Work is scheduled to complete by 5/30/11. Cabling/cutovers & pressurizing gas pipe forecasted to be complete by

Accept Suggestion:



Reference Sheet D-2230

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

148 of 1053 11/05/2013

Time: Job:

First Street - Substructure installation scheduled to complete by 4/30/11. Cabling and cutovers forecasted 10:53 AM 30100

			<i>3</i>		,			
umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
capped outside limits of work by T Program Relocation of Utilities Prutilities installed by the Transbay Relocation of Utilities Project. Corremoval of utilities with TJPA represe confirm that the work descompleted for all underground util	oject including future Fransit Center Program stractor to coordinate esentative." ribed in Note 2 has been ties on Beale St. d, please provide a list			**** These d	rational issues a	window also. to change due to ind any conflicts o	utside	
of utilities not yet abandoned and dates when the said utilities are to be cut and capped.						Relocation of Utili etion dates for util		
-0059 BSE - Und	erground Utilities Removal c	n Fremont Street	Closed	03/11/2011	03/21/2011	03/23/2011	Potential	ily 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction	n Compan Daphne Faulkner	Answered B	y: Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatty Infrastructure	e, Inc. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet D-2230 Per Drawing D-2230 Note 2, "Unla all utilities to be removed have alr capped outside limits of work by Terogram Relocation of Utilities Prutilities installed by the Transbay Relocation of Utilities Project. Cor removal of utilities with TJPA represe confirm that the work descompleted for all underground util If work has not yet been complete of utilities are to be cut and capped.	eady been cut and fransbay Transit Center object including future fransit Center Program stractor to coordinate esentative." wribed in Note 2 has been tites on Fremont St. d, please provide a list			scheduled to cutovers fore ***** These d weather, ope the control of Fremont St.	et PGE Final co be complete 4/1 casted to be cor ates are subject rational issues a PG&E******	nduit installation 1/11. Cabling and nplete by 6/4/11. to change due to and any conflicts o shi: Relocation of U	utside Jtilities	
-0060 BSE - Und	erground Utilities Removal c	on 1st Street	Closed	03/11/2011	03/21/2011	03/23/2011	Potential	ily 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction	n Compan Daphne Faulkner	Answered B	y: Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatty Infrastructure	e, Inc. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



however BBII has attached a suggestion that they feel would eliminate some of their concerns listed above.

Please provide a revised detail or rebut BBII concerns if

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

149 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subject Status Impact Proceed Per Drawing D-2230 Note 2, "Unless specified otherwise to be complete by 6/24/11 all utilities to be removed have already been cut and capped outside limits of work by Transbay Transit Center ***** These dates are subject to change due to Program Relocation of Utilities Project including future weather, operational issues and any conflicts outside utilities installed by the Transbay Transit Center Program the control of PG&E****** Relocation of Utilities Project. Contractor to coordinate removal of utilities with TJPA representative." Please confirm that the work described in Note 2 has been completed for all underground utilities on 1st St. First St. Webcor-Obayashi: Relocation of Utilities If work has not yet been completed, please provide a list project will provide the completion dates for utilities on of utilities not yet abandoned and dates when the said First St. utilities are to be cut and capped. BSE - Concerns About Pile To Mat Slab Connection T-0061 Closed 03/15/2011 03/25/2011 03/23/2011 **Potentially** From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Metzger Co-Author: Balfour Beatty Infrastructure. Inc. Ural Yal REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Reference Sheet S-3003 and attached detail Thornton Tomasetti response: BBII has concerns that the trestle pile to mat slab slip Comments in response to BBII concerns: connection as shown in detail 2 on S-3003 will not work as intended. Based on BBII's understanding that this joint is 1. Bolts/slotted holes could be isolated from the intended to allow the mat slab to deflect upward and our concrete via styrofoam blocks. limited knowledge of the permanent structure design, BBII has listed some concerns with this connection below: 2. Anticipated slab movement upward is due to rise of 1. BBII does not think the sleeve will be able to slide with groundwater pressure after the dewatering pumps are turned off - which is after structure is completed and the bolts and slotted holes completely encased in concrete. (see attached) trestle work is completed. 2. If the slab does deflect upwards and the lower section of pile is no longer in contact with the bearing plate, then Comments regarding proposed alternate detail: the mat slab is carrying the entire load on the pile. 3. Any upward movements of the slab will affect the trestle 1. Proposed detail does not address waterproofing at supper structure framing. Differential upward deflections bottom of mat and allows water infiltration into the mat could cause damage depending on severity. as currently presented. BBII does wish to bear the risk of re-designing this joint AAI Response: Alternate detail will not satisfy due to the interaction with the permanent structure. waterproofing requirements.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

150 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
	eve the detailed connection	is the best suited							
for this applic	cation.								
T-0062	BSE - Concrete	Submittals		Closed	03/16/2011	03/26/2011	03/23/2011	Potential	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfou	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference S	pecification Section 03 30 0	00			Thornton Tom	nasetti response	: <u> </u>		
Cast In Place the BSE pactors as 30 00-1. The concrete package of 3 30 00-1.	6.A.5 Joint Locations for Corazzo finish; None of the cois to receive flooring. 6A.6 Preconstruction Surversional Cocations where concrete instruction. The mud slab does rete, and BBII is not anticipate temporary bridges. 6.A.7 Survey of Flat Plate coors - No flat plates included to finish floors only, which is	e not applicable to concrete Slabs to concrete work in ey - This is atterfaces with so not interface with coating using or Flat Slab d in the BSE or conditions - This are not included in BBII does not requiring repair concrete finishes - is not finished or				the BSE contra	listed in the RFI	are not	
	m that the above submittal r the BSE contract.	s are not							

T-0063

BSE - Request for Final EIS/EIR for Mitigation and Monitoring

Closed

Answered By:Transbay PMPC



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

151 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQ	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refer	ence Specification Section 01 35	65					ferred in 01 35 65 the following locat		
EIS/E speci the co and n	nas been unable to obtain the reporter dated November 29, 2007, as fication section 01 35 65, 1.1.A. Tontractor to be responsible for mithonitoring requirements that are infication section.	s described in he report requires gation measures			File Director - Environmental 2004 EIS - Ori	Programwide - - 11 EIS/EIR - ginal	5 Program Coord EIS/EIS Transit C	- 10 Center -	
Pleas	e provide BBII with this report.				information.		•		
2024	DOT D 1111			0	00/40/0044	00/00/0044	00/04/0044	.	
-0064 Erom	Webcor Construction LP	on Contract Backfill Material Nhi Tran	To: Turner Construction Compan	Closed	03/16/2011	03/26/2011	03/21/2011	Potential	ly
	Balfour Beatty Infrastructure, Inc.		To: Turner Construction Compan	Daprine Faulkner	Allswelled by	- Furner Constit	uction Comp Jack /	Adams	
		Olai Tai					. \square		
Refer It app unpro baser drawi this a	JEST: ence photos (attached) ears that the demolition contracto cessed rubble along the backside ment walls (See attached photos). ngs included in BBII's contract, all rea should be crushed/processed	of some of the Per the demolition of the material in concrete at 3"	SUGGESTION:		filled in accord crushed/proce completion of contract comp	I with the contra ssed concrete a work by the der letion date 4/7/ use RFI to ask	ass. The basement lost drawings with at 3" minus upon nolition contractor 11.	· ₋ area	
requi	s. Handling material that does not rements will be considered a chan ee advise.				Webcor-Obaya	ashi the CM/GC ly answer these	nolition contractor. C or Turner Constree questions over the	uction	
-0065	301 Mission Wa	all - Length of dowels in conc	rete wall	Closed	03/17/2011	03/27/2011	03/24/2011	Potential	ily 🗌
From	Webcor Construction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:URS Corporati	on David	Fyfe	
Co-Author:									
REQ	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The r	ence: Sheet S-5000, RFI T-0042 esponse to RFI T-0042 specifies fete wall height to be exposed abors a minimum 18". To achieve this	ve the existing			acceptable. #8 into existing co	B embedment ba oncrete vault wa	n lenton terminator ars shall be dowel all per RFI T-0027. f #8 embedment b	led 30"	
	Il concrete wall height must be inc						of new concrete wa		



1. The inside survey of the adjacent buildings will be performed by ARUP and ARUP is in the process of

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

152 of 1053 11/05/2013

Time: Job:

(note the 101 1st Street address listed by ASC should be corrected to 100 1st & 533 Mission)

10:53 AM 30100

20100 Tranchay Transit Contar Project

JOINT VENT	TURE	30100 - Transbay Transi	t Center	Project	-			
Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
to be installed The #8 ember and fabricated response to R will have to be length must b As an alternat fabricated #8 per RFI T-002	dment bars have already been purchased d. To achieve the higher wall height per dFI #T-0042, 90% of these fabricated #8 bars be scrapped and new bars with the longer	vary between approximately 3" - 9", verify in field. I resulting distance from top of #8 embedment bars lenton terminator to top of new concrete wall is gre than 6", contractor shall install #4 U-bars at 12" on center. #4 U-bars shall be centered between the #ties on both sides of the #8 bar(s). #4 U-bar legs sibe 22" long. See attached coordination sketch. TJPA Representative to field verify all rebar placen prior to Contractor placing concrete.						
T-0066	BSE - Pile Survey for Buttress Area	Closed	03/21/2011	03/31/2011	04/04/2011	Potentia	lly 🗌	
From: Webcor	Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered B	y:Turner Constr	uction Comr Jac	k Adams		
Co-Author: Balfour	Beatty Infrastructure, Inc. Ural Yal							
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:			
It is BBII's und	derstanding that EBI has completed their		Here is the re		pile survey infor	mation.		
	existing timber piles in the buttress area, area that was previously missed.		It is expected	that BBII will no	ovide the TJPA	a Credit		
· ·	,		since this su	rvey scope was i	in contract Spec			
	e BBII with the remaining timber pile survey s indicated at the TG03 BSE Design Meeting.		19 Para 1.4E	:				
T-0067	BSE - Joint Preconstruction Survey	Closed	03/21/2011	03/31/2011	03/23/2011	Potentia	lly 🗌	
From: Webcor	Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered B	y:Transbay PMF		ed Lau		
Co-Author: Balfour	Beatty Infrastructure, Inc. Ural Yal			•				
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:			
Reference RF	T T-0047		1. Correct.		·			
	ent discussions, BBII is requesting of their understanding of Specification 40:			ne pre-constructi	ASC for BBI are on survey list pre			



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

153 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
the extent possisthese buildings, monitoring. ARU subsequent mo reserves its right perform its own buildings. ARUF the information monitoring effort hat the property methods and the 2. The list of 19 accurate and is 3. The TJPA will these buildings owners. BBII will subsequence with the second th	ible. ARUP will also put, including but not limit UP will make the initial whitering information avoid to review this information avoid to review this information avoid the responsible provided and the contact. ARUP is also responsible youngers concur with the results. It buildings previously put in conformance with a larrange for a survey with the attendance of	s previously provided by BBII is rmance with ARUP's list. e for a survey of the outside of attendance of the property with its professional photographer			3. Correct.				
T-0067.1	BSE - Joint Pr	econstruction Survey Fo	llow-Up	Closed	02/06/2012	02/16/2012	02/15/2012	Potential	ly
From: Webcor C Co-Author:	Construction LP	David Fields	To: Arup	Kevin Clinch	Answered By	:Webcor Const	ruction LP Davi	d Fields	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
provide monitor including but no	nd confirmed within RF ring information from a ot limited to, active cra itial survey and subse	djacent buildings ck monitoring. ARUP			ARUP Respo				
monitoring infor this information	rmation available to Bi	III. Please provide				Architect. The C	nstruction survey contractor's requ		
T-0067.2	BSE - Monitor	ing Information for 545 M	lission	Closed	02/13/2012	02/13/2012	02/16/2012	Potential	lly 🗌
From: Webcor C	Construction LP	Joanne Filipas	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	

SUGGESTION:



REQUEST:

BBII believes there is an issue with some of the

information provided regarding the revised shoring wall

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

154 of 1053 11/05/2013

Time:

10:53 AM 30100

JOINT VEN			30100 - Tra	ansbay Transi	t Center	Project	<u>-</u>		
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Pof PELT 00	067 and T-0067.1				Coorgo Mota	gor APUD Poo	nonco: Arun hoo		
Please provi	de the monitoring information				provided the photographs made at the i	TJPA, via the A documenting ou	sponse: Arup has rchitect, the report reports which have JPA. The Contract the TJPA.	rts and ve been	
					Per Jack Ada	ams of Turner C	onstruction:		
					obligations an Specification	nd perform the v Section 01 15 4	I their contractual work described in 0 PROTECTION adjacent to the P	OF	
					authenticity of	of claims by coor	e Joint Survey to edinating access a resentatives (Sing	and	
T-0068 From: Webco	BSE - Soil Encou	ntered During Instal Nhi Tran	lation of Pile Removal Instrumenta To: Turner Construction Co		03/22/2011 Answered B	04/01/2011 У :Adamson Ass	03/25/2011 ociates, Inc Geo	Potentia l	ly
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal					,	J J.	
	was installing their pile remo		SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:		
	ion, they recorded the depths ey encountered.	s of the various			Soil log attac	hed.			
Please provi work.	de BBII these depths for the	pile extraction							
T-0069	BSE - Revised Sh	oring Wall Layout C	larification	Closed	03/23/2011	04/02/2011	03/28/2011	Potential	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered B	y: Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							

ANSWER:

ARUP Response:

Accept Suggestion:

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

155 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

layout.

The following information was provided on drawing SKGT-0001-R1:

- The (x, y) distances of the intersection of the LOL's of segments X1-1 and R2-1 (Point P on attached sketch) from the intersection of 1-line and J-line: (x, y) = (73'-2)1/4", 166'-4").
- The (x, y) distances of the radial center of segment R2-1 (Point C on attached sketch) from the intersection of 1-line and J-line: (x, y) = (490'-7 1/4'', 640'-10 1/4'').  The radius of the LOL of segment R2-1 as 633'-6".

The distance between the point P and point C can be calculated with the above information: #61607; #916; X = 490'-7% minus 73'-2% = 417'-5 = 417.417  ΔY = 640'-101/4" minus 166'-4" = 474'-61/4" = 474.521#61607; D = (#916;X2 + #916;Y2)1/2 = (417.4172 +474.5212)1/2 = 632.053'

Using the distances provided on SKGT-0001-R1 gives a distance of 632.053' between point P and C. This distance must be 633'-6" because it lies along segment R2-1 and the radius of the arc is given. There must be an error in either the radius or one of the other given dimensions. BBII requests an expedited response as this information is critical to our work.

The dimensions to the corner of the LOL where segment X1-1 and R2-1 meet have been revised.

See the attached SKGT-0001-R2.

BSE - Excavation Permit for Pre-trenching in the Public Right of Way

Nhi Tran

Ural Yal

Closed

04/04/2011

03/25/2011

Potentially

From: Webcor Construction LP

Co-Author: Balfour Beatty Infrastructure, Inc.

To: Turner Construction Compan Daphne Faulkner

Answered By: Transbay PMPC

03/24/2011

Alfred Lau

REQUEST:

T-0070

SUGGESTION:

ANSWER: **Accept Suggestion:**

For pre-trenching work, Contractor is expected to acquire excavation permit from DPW. Permit fee is reimbursable by TJPA.

Reference Specification Section 01 14 10 and attached sheet

BBII would like to confirm the following:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 156 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
- BBII is responsible for applying for from the San Francisco Department of the pre-trench excavations in the - Per Specification Section 01 14 10 TJPA will compensate BBII for the e costs.	of Public Works for all public right-of-way. Appendix (attached),			the pre-trench space permit Fremont, Bea TJPA), and S	ning activity may from DPW for wile, and 1st (fee pecial Traffic Pe	permit, please not / need to obtain st vork in Minna, Nat also reimbursed bermit (as required) Division, SFMTA).	reet oma, by from	
0071 RFI T-0071 -	301 Mission Screen Wall - W	aterproofing at South face	Closed	03/25/2011	04/04/2011	04/05/2011	Potential	ly 🗌
From: Webcor Construction LP	David Hungerford	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:URS Corporat	ion David	l Fyfe	
co-Author:								
REQUEST: Reference: Attached letter		SUGGESTION:		ANSWER: Please clarify	Accept Sug	gestion:		
Please see the attached letter dated Erik Liu of Transworld.	March 16, 2011 by			being request	ed, nor is it clea	n/clarification (if and a specific posed/submitted for a specific posed/submitted for a force for a specific posed/submitted for a specific posed pos	• /	
0072 BSE - Concre	ete Sidewalk and SD Remov	al in Zone 4	Closed	03/30/2011	04/09/2011	04/11/2011	Potential	
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Turner Constr	uction Comr Jack	Adams	- Ш
co-Author: Balfour Beatty Infrastructure, I	nc. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attached photos showing and sewer manhole in Zone 4, adjac building)2, D-1206 , D-1	, D1060, D-1063, I 215 define extent		
The sidewalk and sewer manhole (a is not in the BSE contract work and removed prior to pre-trenching. BBI their pre-trenching activities on 04/1	will need to be is scheduled to start				ract and BSE D for BSE Demoli	rawings D-0001 a ition scope.	nd	
Please advise.								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 157 of 1053 11/05/2013

Date: Time: Job:

Arup recommends that a meeting be held to review

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0073	BSE - Request	for Response Spectra		Closed	03/30/2011	04/09/2011	04/07/2011	Potential	ly 🗌
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beat	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specific	cation Section 01 53	13			ARUP Respor	nea.			
	with the San Francisc				This request needs to be discussed in more detail. We				
was expressed that generated by ARU	at BBII must use resp IP in the design of the	onse spectra e temporary					ussed in more d esday's meeting.		
S .	o noted that if the brier 5 years, the design				Adamson Comment:				
permanent structu	re and the specified of	ground motion may					a hald an Anril 1	0. 2011	
for a ground motio	n with a 10% probab	ility of exceedence			The purpose	of delivering the	e held on April 1 information in the	ne	
in 50 years as specified, as well as for a ground motion meeting is to confirm that the with a 7.5% probability of exceedence in 75 years.									
					information ar	nd the data being	g transmitted.		
T 0070 4	505 5				00/00/00/4	0.4/0.0/0.0.4.4	0.4/4.4/0.4.4		. —
T-0073.1 From: Webcor Con	-	for Response Spectra Nhi Tran	Tot Turner Construction Cons	Closed	03/30/2011	04/09/2011	04/14/2011	Potential	ту
			To: Turner Construction Comp	an Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beat	ity iliilasii ucture, ilic.	Olai fai					. \Box		
REQUEST: Reference Respor	nse to RFI#T-0073		SUGGESTION:		ANSWER: ARUP Respon	Accept Sug	gestion:		
•		DD1 0 DD144 1:			·	136.			
During a meeting was expressed that	with the San Franciso at BBII must use resp	co DBI & DPW, it onse spectra			Attached are:				
generated by ARU	IP in the design of the onoted that if the bridge	e temporary					ables 3-3(bedroon of box), 3-7b (ba		
be in place for ove	r 5 years, the design	must be for a			structure East	end of box), 3-9	9 (ratio vertical to)	
permanent structu not be suitable. Th	re and the specified onerefore, BBII reques	ground motion may ts response spectra					on ratios) and Ta ault effects. Note		
for a ground motio	n with a 10% probab cified, as well as for	ility of exceedence			these spectra	exclude structu	ral interaction effect	fects and	
	bility of exceedence i					ressively in the		is triat	
							mic analyses of		
					temporary (1 i 301 Mission, a	n 100 year retui adiacent Fremoi	n period) conditi nt Street abutme	on at nt. using	
					the Kobe bedr	ock and far-field	d motions to gen	erate the	
							um at the top of creased spectra		
							ntal period (unde bridge structure		
					10 20 0.00) 01	0011114010110	ago on aotaro	·•	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

158 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee	
					and discuss these after the Contractor's engineer has examined them.					
Г-0074	301 Mission W	/all - Nelson Stud and Stirru	ıp Locations	Closed	04/01/2011	04/11/2011	04/01/2011	Potentially	y 🖂	
From: Webcor	Construction LP	David Hungerford	To: Turner Construction	Compan Daphne Faulkner	Answered By	:URS Corporation	on David	d Fyfe		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:			
to install/weld front of the va where the #8 per RFI T-002 dowel embedd the installation points, one be This work is c	ersation, please confirm nelson studs at 9" on coult intrusions into the cosize dowels are also spate. The Nelson Stud spate dment locations. This span of rebar stirrups and preing the dowel, and the courrently ongoing and implease confirm this layo	enter at locations in encrete stem wall, acced at 9" on center, acing will match bacing also facilitates rovides two tie other the nelson stud.			added tie rebarequirements This RFI is a repart of the second of the sec	ar (e.g. #3 or #4 to tie reinforcem request to change o.c. to 9" o.c. (wo.c.) in lieu of us request is for cord on this basis to spacing of the network where #8 dowe to change in corporated with redult be borne solely 1/01/2011 issued for work son stud spacing wels are spaced	o use miscellane bar) to provide for the provi	or ired. son stud are rs. to om 12" 9" o.c.). nsion in sand nelson or.		
Γ-0075	RSE - Specific	cation Section 32 12 17 and	32 12 1 <u>8</u>	Closed	04/04/2011	04/14/2011	04/05/2011	Potentially	, \Box	
	Construction LP	Nhi Tran		Compan Daphne Faulkner		Transbay PMP		d Lau	y [_]	
Co-Author:	 		Tamor Construction	Compan Dapinio i dandioi		Transbay i Wil	7,1110	a L au		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:			



Reference Specification Section 01 35 65

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Project "110 - Existing Terminal Building & Ramps Project" in Constructware contains the following

159 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

			30100 - 11a	nsbay Transi	t Center	Project					
Number	Subject		Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
We noticed that the S been revised to 32 12 1. Please confirm that "STREET EXCAVATI unchanged between p 2. Please confirm that continue to use the S TJPA shall revise the specification sections	2 18 in the IFC Docuit the content of the s ION AND RESTORA ore-bid and post-bid. It the Trade Subcont pecification Number Table of Contents a	ment. specification ATION" was ractor shall 32 12 18 and nd other			specification vand issued as Pavement Retrade package 2. Confirmed. Pavement Re	was issued as 3: 32 12 18 to avo storation specifies. As stated abov storation section	tion and Restora 2 12 17 in the IFE oid duplication wi cation for the Util re, 32 12 17 is for n for the Utilities to the for TG03 Worl	3 set, th the lities			
T-0076	BSE - Footing and	l Pile Removal at Ben	t 59 - 61	Closed	04/04/2011	04/14/2011	04/11/2011	Potential	ly		
From: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams			
Co-Author: Balfour Beatty I	nfrastructure, Inc.	Ural Yal									
REQUEST: Reference Sheet D-10 and Spec Section 01 Please advise the followard 28-2011 have been concontract: - Bent 59-61 - Remove piles as required to congrade complete and be D-1030, D-1046).	35 65 owing as discussed ompleted per the De val of columns, footing omplete 4'x4' x13' ex	with BBII on 03- molition gs and timber cavation below	SUGGESTION:		Demolition Co 01/04/10 and Bent footings below grade p Locations of ti determined by Lighting). The three (3) Foundations hexcavated to a "pulled." Pile	ontract Drawing Drawing CL-174 were demolished ber drawing D-10 hese Utility Poler / SFMTA (MUNI locations total for had the bent foo a depth of 13' (+ removal consist	gestion: de 61 was completed 61 was comp	ated 8/10/09. In 3 feet de notes. re eet Pole and were were not the top			
T-0077	BSE - Manitarina	Plane and Data for 7	and Lat N	Closed	04/04/2011	04/14/2011	04/41/2044	Dotontic	ılıv 🖂		
From: Webcor Constru	_	Plans and Data for Zo Nhi Tran	To: Turner Construction Con	Closed			04/11/2011 action Comr Jack	Potential	'У		
Co-Author: Balfour Beatty I		Ural Yal	· • rumer construction con	npan Dapine i adikilei	Allowered by	Tullel Collsuit	John Comp Jack	Audillo			
REQUEST:	doi:doidio, iiio.	31GI 1GI	SUGGESTION:		ANSWER:	Accept Sug	gestion:				



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

160 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
As discussed at the site walk through n 2011 with BBII, BBII requests a copy of contract monitoring plan and any data i demolition contract mitigation monitorin Zone 4.	f the demolition n relation to			1. 011540-02 Fremont St	2.0 Pre-Constru	data requested- ction Survey - 181 ction Survey - 199		
						vide the demo cor vailable for this pr		
T-0078 BSE - Timber P	iles Not Yet Surveyed by EBI		Closed	04/04/2011	04/14/2011	04/12/2011	Potential	ly 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compar	n Daphne Faulkner	Answered B	y: Turner Constru	uction Comp Jack	Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attached photos and sketch While BBII was excavating the trial pile	extraction area				molition and was	ed tops of wooden not required to su		
and exposing the timber piles on 03/31, not surveyed by EBI were discovered of the TPE area close to pile 215053. Fhow to proceed.	n the eastern side				a 1.4 and provid	pec 02-41-19 Pile e existing timber p	oile	
				force accoun	t (unless parties	ity will be reimburs can agree on a ur Rev 2 dated 4/8/	nit rate)	
T-0079 BSE - Existing	Street Light Footing Location	s	Closed	04/04/2011	04/14/2011	04/11/2011	Potential	ly
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compar	n Daphne Faulkner	Answered B	y: Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Section 02 41	01					r Demolition Contr 84 scopes the Lig		
As discussed at the site walk through meeting 03-28-2011 with BBII, the pre-existing street light poles were relocated per demo contract. BBII was told the foundations and timber piles for the pre-existing street lights have not been removed.				Removal and All Pre-existin Contract Drav	Replacement P	lan. coped in the Demo	olition	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

161 of 1053 11/05/2013

Date: Time:

10:53 AM Job: 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Please provide BBII with as-built drawings indicating the foundations or OCS pole foundations remaining installed that were contracted for demolition by pre-existing street light locations. Pre-existing streetlight foundations will need to be removed before CDSM wall Demolition Contractor. installation, if a conflict is identified. The (3) three Light Poles and Light Pole Foundations located at Fremont St. per Demolition Drawing D-1084 are on "Portable Foundations" (versus poured concrete foundations). The (3) three Light Poles and Light Pole Foundations located on First St. per Demolition Drawing D-1084 are on poured underground foundations anchored to basement floor. This is less scope for BSE Contractor who will not have to disconnect and demolish pole foundations that were located in the Frmont St. excavations. Locations of these Portable Light Poles at Fremont and underground foundation Light/OCS Poles on First St. were determined by SFMTA (MUNI) and BLHP (Street Lighting). T-0080 **BSE - Additional Timber Piles Not Surveyed by EBI** Closed 04/04/2011 04/14/2011 04/12/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Daphne Faulkner Answered By: Turner Construction Comr Jack Adams Ural Yal Co-Author: Balfour Beatty Infrastructure, Inc. REQUEST: SUGGESTION: ANSWER: Accept Suggestion: BBII should follow contract Spec 02-41-19 Pile Reference RFI#T-0078 and attached photos and sketch Removal Para 1.4 and provide existing timber pile While BBII was excavating the trial pile extraction area documentation. and exposing the timber piles on 04/01/2011, piles that were not surveyed by EBI were discovered on the Each pile over contract quantity will be reimbursed as southern side of the TPE area close to piles 215044, force account (unless parties can agree on a unit rate) 215043 and in the centre of the TPE area at 215054, as in accord with CCO no. T-001 Rev 2 dated 4/8/11. shown in the attached drawing. The pile next to 215054 was extracted due to its proximity to 215054. A total of 7 additional piles have now been discovered to date. Please

advise BBII on how to proceed.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 162 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference atta	ached sheet SKGT-0001-R1				ARUP Respoi	nse:			
segments 1-1 shoring wall al	n from gridline J to the inters and X1-1 was not updated lignment - see attached dra ase provide the correct dim	for the revised wing for			The dimensio SKGT-0001-R		evised. See the att	ached	
-0082	BSE - Hazardous	Material Removed Fro	om Site	Closed	04/05/2011	04/15/2011	04/11/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe	ecification Section 00 03 35					structures and	foundations were		
removed from	n that all hazardous materia site per the extent of demo cone 4 and Lot N.				feet. Demolition	on contract Haz	ding footings to m ardous materials s Beale st. Bar and	scope	
diawingo ioi 2	one rand born.				1013, D-1029	D1030, D1044	D-1011, D-1012, -1046 and D-1252 s and hazardous		
·-0083	BSE - Existing Uti	lities Decommissioni	ng Lot N and Zone 4	Closed	04/05/2011	04/15/2011	04/13/2011	Potential	ly 🗀
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack		,
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal			-		, , , , , , , , , , , , , , , , , , , ,		
REQUEST:	•		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	eet D-2230 and Specificatio	n Section 02 41	000020110111		Parcel N: Exis	iting Utilities we	ere decommission with Contract Draw ar and Grille per D	ings	
	e as built drawings for all de N and Zone 4 to BBII.	commissioned			decommissior Contract Dem	` `	d cap) in accord v D-1202, D-1203,		
					Sewer Conne	ctions ("SEWEF	f Existing Combine R") shown on D-12 d to assist BBII w	202 and	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

163 of 1053 11/05/2013

Time:

10:53 AM 30100

001111 12111			30100 - 112	ansbay Transi	t Center	Project					
lumber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee		
					Dewatering discharge pipes. Locations are identified as follows: "3/D-1210 SEWER" on sheets D-1202, D-1206 and "-/- SEWER" on sheets D-1202, D-1206 (NE Corner of Lot D; no detail number provided). Demolition Contractor has not completed their scope of Contract and therefore has not submitted their final as-built drawings in Constructware. However, they are available in Demolition Contractor's trailer office for your viewing.						
-0083.1	BSE - Existing Util	ities Decommissior	ning Lot N and Zone 4	Closed	04/05/2011	04/15/2011	05/24/2011	Potential	ily		
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams			
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal									
	sponse to RFI#T-0083, Shee	et D-2230 and	SUGGESTION:			Accept Sug	gestion: Utility Demolition	scope			
Specification S	Section 02 41 01				at Parcel N.						
and will becon process: "they	response of RFI T-0083 is no ne out of control of the RFI of a are available in Demolition or your viewing."	ocumentation			Demolition so	ontractor has con cope at Parcel D ept where agree	(Zone 4) per cont	:ract			
Please provide	e BBI with as built drawings to date it				currently unde	to Webcor/Obay	on Drawings are Engineer of Reco yashi for their use				
-0084	BSE - Existing Sto	rm Drains Decomm	issioning in Lot N	Closed	04/05/2011	04/15/2011	04/11/2011	Potential	lly 🗌		
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams			
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Ural Yal									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference Sho	eet D-2230 and Specification	Section 02 41			(e.g. cut and	cap) in accord w	re decommissione ith Contract Draw ar and Grille per I	rings			
There are 2 ex decommission	kisting storm drain basins in ned. Please provide BBII the	Lot N not yet status of					tlets on parcel N				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 164 of 1053 11/05/2013

Date: Time: Job:

e: 10:53 AM : 30100

30100 - Transbay Transit Center Project

Refer to drawing D-1029 Note 9.

					Date	Date	Date	Cost	
lumber	Subject			Status	Created	Required	Answered	Impact	Proceed
decommission	ning or modification of these	lines.			scope of the d Basin at Beale Demolition Co	emolition contra Street Bar & G ntractor RFI -00	ause they are outs actor. Unforeseen Brill is identified und 0058. These have rom parcel N durin	Catch der been	
-0084.1	BSE - Existing Sto	orm Drains Decommiss	ioning in Lot N	Closed	04/21/2011	05/01/2011	05/02/2011	Potential	lly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction C	Compan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack A	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification RFI response decommission that the SD diconflict with the	I#T-0084, Drawing Sheet Description 02 41 01 T-0084 has not provided cleaning these SD lines. The drawing flows towards Beale Struck CDSM wall. Please advising the above SD lines.	ear direction for wings indicate eet and will			Storm Drain of unknown beca demolition cor Beale Street B Contractor RF	sponse to RFI titlets on Parcel use they are outractor. Unfores ar & Grill is ide 1-00058.	T-0084 there are to N and their status utside the scope of seen Catch Basin intified under Demonstrate Demolition and	s' are i the at olition	
decommission	ing the above ob lines.				BSE contract. Utilities Projec	Webcor-Obaya t Manager will b	ishi RUP relocation be contacted for re ircel N parking lot	n of route	
-0085	BSE - Existing Sit	e Conditions Lot N		Closed	04/05/2011	04/15/2011	04/11/2011	Potential	lly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction C	compan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack A	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
Prior to demo paving, howev paved. BBII a	ecification Section 01 15 40 lition work Lot N surface cor ver a majority of the Lot is no ssumes that the lot will be re ion. Please confirm	nsisted of asphalt of currently	SUGGESTION:		areas specified (areas such as in the demolition demolition cor removal of bel	d for demolition s Parcel N). Th on Contract dra tractor is requir ow grade struct	gestion: trequired to restor with asphalt pavir is was not spec. The wings or Spec. The ded to backfill after ures with recycled a concrete. For Pa	ng ed for e	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

165 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
-0086	BSE - Clean Debr	is From Adjacent Buil	dings To Lot N and Zone 4	Closed	04/05/2011	04/15/2011	04/11/2011	Potential	ly 🗌
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
	T: Specification Section 01 15 40 Infirm that demolition contractor		SUGGESTION:		requirement to	clean all dust	gestion: ctor has satisfied and debris general station of the action of	ated by	
requireme demolition building ov cleaning d	int to clean all dust and debris g n contract to the satisfaction of t wners, and BBII will only be res lust and debris generated by BB s, after the turnover of these are	enerated by he adjacent ponsible for BII during its own			building owne	rs to date. This	was confirmed th	rough	
-0087	BSE - Zone 4 Gate	e		Closed	04/05/2011	04/15/2011	04/11/2011	Potential	ly 🗌
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfe	our Beatty Infrastructure, Inc.	Ural Yal							
REQUES1	Т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e Demo Contract Drawings						d 16 foot gate elin		
each discr	o on drawing D-1006 of the dem reet fenced area shall have a m at the conclusion of demolition	inimum of two				means and me	Demolition contra ethods for truck tr		
zone 4 onl additional	ly has one gate in place. BBII regate be provided on the Fremo BII is available to meet and coo	equests an nt St. side of			credit which ceither at SW of Beale St. fence would not be reparking meter gate is chosen BSE Contract barrier fence at A field coordinate.	ould be used to corner near 181 te line. However tesponsible for a sor other ancill a that would be or. BBII can use and gates as neation meeting a	tor has offered gainstall a 16 wide Fremont St. or or - Demolition confourb cut, removal ary scope if Beale the responsibilite/modify and relocated per your coafter the Monday as recommended.	gate n the tractor of e St. y of cate ntract.	
-0088	BSE - Temporary	Shoring Wall and But	tress Conflict	Closed	04/06/2011	04/16/2011	04/08/2011	Potential	ly 🗌
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfe	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST		ion Soction 21	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
63 29	Sheet GT-2201 and Specificat	ION SECTION ST			ARUP Respor		esterday's (4/6/1	1) BSE	



The response for RFI #T-0088.1 was not an acceptable

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

166 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

ARUP Response:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
contract was m an unknown exi of the wall now of buttress shaf column C shaft:	shoring wall installed und oved East away from Freisting concrete wall. The a falls along the edge of the fits. In an effort to avoid cost generated by the revise gnment, BBII suggests the oved 12" East.	mont St. to avoid as-built alignment e third column (C) onflicts with d temporary			Contractor's	drilled shaft work ne feasibility of th	ch will be included plan is needed be ne proposed shift	y Arup	
T-0088.1	BSE - Temporary	Shoring Wall and But	tress Conflict	Closed	04/06/2011	04/16/2011	04/20/2011	Potential	ly
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construct	tion Compan Daphne Faulkner	Answered B	y :Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
question Please provide	or RFI #T-0088 was not a an appropriate direction to the work as soon as po	o start preparing			structure up t order to clear shoring wall.	to 12 inches east any conflict with Contractor is re	the entire buttress t of the design loo the Fremont Str quested to identif prior to start of but	cation in eet fy the	
Reference Shee	et GT-2201 and Specifica	tion Section 31							
contract was m an unknown exi of the wall now of buttress shaf column C shaft:	shoring wall installed und oved East away from Frei isting concrete wall. The a falls along the edge of the its. In an effort to avoid cost generated by the revised gnment, BBII suggests the oved 12" East.	mont St. to avoid as-built alignment e third column (C) onflicts with d temporary							
T-0088.2	BSE - Temporary	shoring wall and butt	ress conflict	Closed	04/06/2011	04/27/2011	04/25/2011	Potential	ly 🗌
From: Webcor/C	Obayashi Joint Venture	Nhi Tran	To: Turner Construct	tion Compan Daphne Faulkner	Answered B	y: Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 167 of 1053 Date: 11/05/2013 Time: 10:53 AM

Job:

30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

answer to the question.

Please provide exact revised layout as required.

The Buttresses have exact Coordinate Locations to define the layout, as shown on GT-2201.

The existing coordinates must be changed to reflect the new layout the TJPA desires.

History

Information from RFI#T-0088.1

The response for RFI #T-0088 was not an answer to the

Please provide an appropriate direction to start preparing the submittal and the work as soon as possible.

Answered By: George Metzger Answered On: 20-Apr-2011

Answer:

The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.

Information from RFI#T-0088

Reference Sheet GT-2201 and Specification Section 31 63 29

The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East. Cost Impact Potentially Cost Amount Schedule Impact Potentially Days

The Contractor's cover sheet describes this as RFI 0088.2. but the correct number is 0088.3.

See attached SKGT-0002.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 168 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

Answered By George Metzger
Date Answered 2011-04-20
Answer The contractor may relocate the entire buttress
structure up to 12 inches east of the design location in
order to clear any conflict with the Fremont Street shoring
wall. Contractor is requested to identify the new layout and
any impacts prior to start of buttress construction.

1-0088.3	BSE - Temporary	uttress conflict Closed	04/06/2011	
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkne	er Answered By:
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal		
REQUEST:			SUGGESTION:	ANSWER:
The respons	e for REI #T-0088 1 was not	an accentable		API ID Pesnons

The response for RFI #T-0088.1 was not an acceptable answer to the question.

Please provide exact revised layout as required.

The Buttresses have exact Coordinate Locations to define the layout, as shown on GT-2201.

The existing coordinates must be changed to reflect the new layout the TJPA desires.

History

Information from RFI#T-0088.1

The response for RFI #T-0088 was not an answer to the question

Please provide an appropriate direction to start preparing the submittal and the work as soon as possible.

Answered By: George Metzger Answered On: 20-Apr-2011

Answer:

The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.

O4/06/2011 O4/27/2011 O4/25/2011 Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

ARUP Response:

The Contractor's cover sheet describes this as RFI 0088.2, but the correct number is 0088.3.

See attached SKGT-0002.



work and will need to be removed. Please advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

169 of 1053

Time:

Job:

Refer also to D-1014, D-1030, D-1058, D-1060, D-

1063 and D-1072

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proces
Information fr	 om RFI#T-0088								
Reference Sh 63 29	eet GT-2201 and Specific	cation Section 31							
contract was an unknown of the wall no of buttress shoring wall a formation be Suggestion Cost Impact Schedule Impact Answered By Date Answer Answer The structure up torder to clear wall. Contract	y shoring wall installed un moved East away from Frexisting concrete wall. The w falls along the edge of tafts. In an effort to avoid offs generated by the revisilignment, BBII suggests to moved 12" East. Potentially Cost Amount fact Potentially Days George Metzger and 2011-04-20 contractor may relocate the potential of the deany conflict with the Frem for is requested to identify prior to start of buttress contractor to start of buttress co	emont St. to avoid as-built alignment he third column (C) conflicts with led temporary hat the buttress he entire buttress sign location in nont Street shoring the new layout and							
-0089	BSE - Existing	Asphalt and Concrete F	Removed Zone 4	Closed	04/06/2011	04/16/2011	04/11/2011	Potentiall	ly 🗌
From: Webco	Construction LP	Nhi Tran	To: Turner Construction	Compan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
1060, D-1072 Please see a the entrance	eet D-1001 and Demo Co and attached photos tached photos showing as to zone 4 on the northeas phalt driveway is not in th	sphalt pavement at t corner. The			the northeast scope. Contra footings and n contract drawi	corner is not in oct in oct scope include nat slab to be re	entrance to zone demolition contra ed concrete colur emoved as define emolition drawing demolition.	nct mns, ed in	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

170 of 1053

Time:

10:53 AM 30100

umber	r Subject			Status	Created	Required	Answered	lmpact	Proceed
-0090	BSE - Timber Piles	Not Surveyed By EBI	04/04/11	Closed	04/06/2011	04/16/2011	04/13/2011	Potential	ly 🗌
Fr	rom: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Aut	thor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference attached photos and sketch While BBII were excavating the trial pile extraction area and exposing the timber piles on 04/04/2011, piles that were not surveyed by EBI were discovered on the eastern side of the TPE area close to pile 215053 and in the western side of the TPE area at 215055 as shown in the attached drawing. The pile next to 215055 was extracted due to its proximity to 215055. A total of 10 additional piles have now been discovered to date. Please advise on how			SUGGESTION:		Removal Para documentatio Each pile ove force account	a 1.4 and provid n. r contract quant (unless parties	gestion: pec 02-41-19 Pile e existing timber ity will be reimbu can agree on a u Rev 2 dated 4/8	pile rsed as unit rate)	
-0091	o proceed. Reciept of Constru	ction Documents		Closed	04/06/2011	04/16/2011	04/08/2011	Potential	ly
Fr	rom: Webcor Construction LP	David Hungerford	To: Turner Construction Compa	n Daphne Faulkner	Answered By	/ :Transbay PMF	C Alfre	ed Lau	
Co-Aut	thor:								
P tr d th	REQUEST: Per the 110325_MSTR_CD_Work_Plan so ransmitted to Webcor/Obayashi on March discussed in the OAC Meeting on April 6, 2 he following dates should be implemented nonthly schedule update:	28, 2011 and 011; confirm	SUGGESTION:			Accept Sug ase are the curre ne Design Team	nt scheduled dat	tes	
	. Webcor/Obayashi will receive the 90% C on August 24, 2011	CD documents							
	2. Webcor/Obayashi will receive the 100% on December 2, 2011	CD documents							
-0092	BSE - Timber Piles	Not Surveyed By EBI	4/5/11	Closed	04/06/2011	04/16/2011	04/13/2011	Potential	ly 🗌
Fr	rom: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Turner Constru	uction Comp Jack	Adams	
Co-Aut	thor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
R	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
V	Reference attached photos and sketch While BBII was excavating the trial pile extr					a 1.4 and provid	pec 02-41-19 Pile e existing timber		
а	and exposing the timber piles on 4/5/11, tw	o turther piles							



proceed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 171 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
southe 21504 west o in the a additio	ere not surveyed by EBI were discorn side of the TPE area close to pil 4. Following this, four additional pile f the area adjacent to 215067 and 2 attached drawing were discovered. nal piles have now been discovered on how to proceed.	es 215043 and es to the north 215068 as shown A total of 16			force account	unless parties	ity will be reimburs can agree on a ur Rev 2 dated 4/8/	nit rate)	
-0093	BSE - CDSM Wall	Segment 35-1 Spacin	g Confirmation	Closed	04/07/2011	04/17/2011	04/08/2011	Potential	ly 🗌
From: \	Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	pan Daphne Faulkner	Answered By:	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	nce Sheets GT-2103, GT-5101 and n 31 56 13	d Specification			ARUP Respon	se:	- 🗀		
is spection (Wall Standard (measure) wall an	ving GT-5101, the spacing of all shified as 4'-0". This is reflected in the sof the CDSM shoring wall except Segment 35-1). The beam spacing ured in AutoCad) is 3.94728'. This is sion bust of approximately 2.4' over its significant problems based on the verify the spacing of beams in Wa	e drawings for all the east wall of this Segment creates a the length of the e auger spacing.			dimension in the noted). The Co drawings. Addi part of the con	ne documents (ontractor is rem tionaly, the Aut tract document	es shall be the sta 4'-0", unless othe inded to not scale oCad dwg files ar s and the Contrac ne electronic files.	rwise the e not ctor is	
-0094	BSE - Timber Pile	s Not Surveyed By EE	BI 04-06-11	Closed	04/08/2011	04/18/2011	04/13/2011	Potential	lv 🗀
From:\	Webcor Construction LP	Nhi Tran	To: Turner Construction Comp	pan Daphne Faulkner	Answered By:	Turner Constru	iction Comr Jack		,
Co-Author: E	Balfour Beatty Infrastructure, Inc.	Ural Yal		•	-		·		
While and ex was fo drawin	EST: nce attached photo and sketch BBII were excavating the trial pile e posing the timber piles on 4/6/11, a und close to 215068 as shown on t g and photos. A total of 17 addition sen discovered to date. Please adv	an additional pile he attached al piles have	SUGGESTION:		Removal Para documentation Each pile over force account	1.4 and providence of the contract quantities of	gestion: pec 02-41-19 Pile the existing timber part ty will be reimburst can agree on a ur Rev 2 dated 4/8/	sed as nit rate)	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Turner Construction Comr Jack Adams

172 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

					-				
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0095	BSE - Zone 1 CDS	M Test Section Relocat	ion	Closed	04/11/2011	04/21/2011	04/14/2011	Potentia	ly 🗌
From: Webcor Con-	struction LP	Nhi Tran	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet G and attached draw	GT-2101, Specification ing	Section 31 56 13			ARUP Respo This is accep				
2011 Design Coord willing to consider as shown on Dwg. BBII and DND Con relocate the Zone	n ARUP at the Wedness dination Meeting, the E relocating the Zone 1 (GT-2101 from Zone 1 istruction are therefore 1 CDSM test panel to the thed drawing, near grides.	ngineer was CDSM test panel and into Zone 2. proposing to he location							
T-0096	BSE - Old Existin	g Footing Along 301 Mis	sion in Zone 4	Closed	04/11/2011	04/21/2011	04/12/2011	Potentia	ly
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specific	ation Section 02 41 01						Shoring wall by		
During Pre-Trench BBII found an existing footing along the Low Rise 301 Mission wall. The footing consists of bricks and concrete. It also has a perpendicular footing that come out from footing that is parallel to the 301 Mission building wall. BBII has exposed a 20 to 30ft section of this footing (approximately on Grid Line "A" between 30 and 32).					Obstructions, obstructions t alignment of t shall be that r	Contractor is to hat might be entitle walls. The de	g and removal o " remove any countered along epth and width o ve the obsructio	the trench	
							cted and viewed		
Please advise BBII as to how to proceed.					Further arche trenching con	ological investig	ation will folllow s are exposed - gical conditions	as pre- Ref:	
					Spec 02-41-0	underground ob 1 and Demolitio 1 Spec. 01-74-00	estructions shall n Debris shall be).	pe per handled	
T-0096.1	BSE - Old Existin	g Footing Along 301 Mis	sion in Zone 4	Closed	04/20/2011	04/30/2011	05/02/2011	Potentia	ly 🗌

To: Turner Construction Compan Daphne Faulkner

Nhi Tran

Ural Yal

From: Webcor Construction LP

Co-Author: Balfour Beatty Infrastructure, Inc.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 173 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

REQUEST:

Reference response to RFI T-0096 and Specification Section 02 41 01

BBII interprets the Response to RFI T-0096 (BBI 0067) as TJPA's approval for the removal of this unforeseen structure. Please confirm.

BBII proposes to follow the method outlined below for the removal of this unforeseen structure. Please confirm in writing that the removal of this unforeseen structure is approved and that provided that it is performed with the method outlined below, no damage to adjacent buildings will occur.

Pre Trench Obstruction Removal Method

Location:

Parallel along the 301 Mission St. Low Rise (Grid line A, approximately between lines 29 & 34).

Obstructions:

The footing consists of bricks and concrete. It also has a perpendicular footing that comes out from the footing that is parallel to the 301 Mission building wall.

Method:

BBII will first expose the obstructions and use an excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBII employees during the Demolition.

Additional Details:

As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA if additional structures or items are encountered.

SUGGESTION:

ANSWER: Accept Suggestion:

Construction means and methods are the contractor's responsibility exclusively. RFI response are not authorization of any change in contract sum or contract time.

We take no exception to above method for the removal of structure. This work will be tracked in accord with CR T-0010.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

174 of 1053

Time:

Job:

10:53 AM 30100

				<u> </u>		<u> </u>			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
-0097	BSE - Protective I	Material Along 301 Missi	on St Wall	Closed	04/20/2011	04/30/2011	05/06/2011	Potential	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Turner Constru	uction Comr Dap	hne Faulkner	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attached photos BBII has encountered a drainage material along the 301 Mission wall while pretrenching. During pretrenching, this drainage material has been removed because it was not affixed to the structure. The wall does not have any exterior waterproofing system. Upon installation of the CDSM shoring system, the cementious material will be against this wall. The existing wall is a 5' deep cantilevered beam on the backside of the existing garage shaft for 301 Mission. Does TJPA plan to install any waterproofing along this wall that can tolerate the installation of a CDSM shoring system?					Drainage material encountered is to be removed frequency the 301 Mission Wall as it was a temporary measure installed at the time of 301 Mission building construction. No waterproofing is required at this location. See attached email response from R. Rothenburger at PMPC.			easure his	
this building.		- Tube Steel Alignment David Hungerford	To: Turner Construction Compa	Closed	04/12/2011	04/22/2011 /: Transbay PMP	04/21/2011	Potential	
	or construction Li	David Hungehold	To: Turner Construction Compa	n Daprine Faulkner	Allsweled by	· Hansbay PiviP	C AIIIE	ed Lau	
REQUEST: Reference: B/S-5000 and D/A-6000 Detail B on sheet S-5000 shows the 10" tube steel centered on the 14" concrete wall below, however this is in conflict with D/A-6000 which shows the steel tube off set from the center of the wall. Please confirm per the 301 Mission subcontractor meeting conversation yesterday, that the tube steel is to be centered on the center of the wall as dimensioned in B/S-5000.			SUGGESTION:		ANSWER: Accept Suggestion: Confirmed. The 10"x10"x5/8" HSS section shall be erected on the center line of the concrete wall as dimensioned in Section B on S-5000."				
-0099	BSE - Depth of Fr	emont Street Shoring Wa	all in Zone 4	Closed	04/12/2011	04/22/2011	04/14/2011	Potential	
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:URS Corporati	on Davi	id Fyfe	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference S	heet D-2203 and attached as	s-built, photos.			The temporar	v Fremont St. sł	noring wall was		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

175 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

To: Turner Construction Compan Daphne Faulkner

and document CPM Activity Impacted - SX-BB42640

While excavating adjacent to the existing Fremont street shoring wall as shown on contract drawing D-2203, BBII has found the existing shoring wall's height to be approximately 2' shorter than the 14 feet depth indicated in the as-builts (attached). This wall does not provide adequate shoring height for BBII to excavate and expose the timber piles prior to extraction. (See attached photo for illustration)

The contract documents D-2203 and pre-bid Q&A response #182 (also attached) indicate this wall would accommodate the buttress area pile removal, however actual existing field conditions do not provide adequate shored depth

Please provide direction.

From: Webcor Construction LP

constructed to support Fremont St. and facilitate removal of Terminal basement slab, walls, and pile caps/footings. The temporary Fremont St. shoring wall was not intended nor constructed to facilitate pile removal activities.

BSE sheet D-2203 only specifies removal of the temporary Fremont St. shoring wall. Sheet D-2203 does not specify nor imply that the temporary Fremont St. shoring wall shall be used or is sufficient to be used for pile removal activities.

Response to QBD 182 was provided to bidders to enable bidders to form a basis for pricing removal of the temporary Fremont St. shoring wall.

If the Contractor is undertaking excavation activities

If the Contractor is undertaking excavation activities which jeopardize the stability of the Fremont St. roadway/foundation, then Contractor shall take any and all necessary actions to protect Fremont St. roadway/foundation.

T-0100 BSE - Slurry Wall Along 301 Mission St Garage

Closed

04/23/2011

04/18/2011

Potentially

Co-Author: Balfour Beatty Infrastructure, Inc.

Nhi Tran Ural Yal Answered By: Turner Construction Comr Jack Adams

04/13/2011

REQUEST:

Reference RFI#T-0096, Specification Section 02 41 00, and attached photos

Please reference from RFI#T-0096 (BBI RFI #67): "During Pre Trench BBII found an existing footing along the Low Rise 301 Mission wall. The footing consists of bricks and concrete. It also has a perpendicular footing that come out from footing that is parallel to the 301 Mission building wall. We have exposed a 20 to 30ft section of this footing (Approximately on Grid Line "A" between 30 and 32)."

After the Concrete and Brick Footing was discovered, a very large mass of slurry was discovered in the same area, and continues where the RFI#T-0096 (BBI RFI# 67) Concrete Footing" stopped. ***Please See Attached Photos***

SUGGESTION:

ANSWER: Accept Suggestion:

Per Contract Spec. 31-56-13 Shoring wall by CDSM Method Para 3.2 Pretrenching and removal of Obstructions, Contractor is to " remove any obstructions that might be encountered along the alignment of the walls. The depth and width of trench shall be that required to remove the obsructions from the path of the shoring wall."

The Archaeologist was contacted and viewed the exposed section of wall and brick debris on 4/11/11. Further archeological investigation will folllow as pretrenching continues and areas are exposed - Ref: Spec. 00-08-12 for Archaeological conditions in Zone 4.

Demolition of underground obstructions shall be per



approximately between lines 30 & 34).

BBII will first expose the obstructions and use an excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for

A very large mass of slurry.

Obstructions:

Method:

Webcor/Obayashi Joint Venture

Webeel/ebayasin some ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 176 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proce
of the Pre-Trenc	seems to continue into h, and was not in the o BBII as to how to proce	contract drawings.				1 and Demolition Spec. 01-74-00	n Debris shall be).	handled	
T-0100.1	BSE - Slurry W	all Along 301 Mission S	t Garage	Closed	04/20/2011	04/30/2011	05/02/2011	Potential	ly 🗌
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Turner Constru	uction Comp Jack	Adams	
Co-Author: Balfour Be	eatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference response to RFI T-0100 and Specification Section 02 41 01 BBII interprets the Response to RFI#T-0100 (BBI 0070) as TJPA's approval for the removal of this unforeseen					responsibility authorization contract time.	means and methexclusively. RFI of any change in	nods are the cont response are no n contract sum or	t	
structure. Please confirm. BBII proposes to follow the method outlined below for the removal of this unforeseen structure. Please confirm in writing that the removal of this unforeseen structure is approved and that provided that it is performed with the method outlined below, no damage to adjacent buildings will occur.						ucture. This wo	e method for the rk will be tracked		
Pre Trench Obs	truction Removal Meth	nod							
Location: Parallel along th	e 301 Mission St. Low	Rise (Grid line A,							



BBII's surveyor, KCA Engineers, has noticed some slight

BSE drawings. Please see the following of KCA's

variations in bearings between the Utility drawings and the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

on the project. It is coincidental that the street control

lines (note, these are not necessarily in the center of

the Right-of-Way and should not be construed as

177 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

JOINI VER	NIURE		30100 - Transbay Transit Center Project						
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBII employees during the Demolition. Additional Details: As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA									
if additional	structures or items are encou	ntered.							
T-0101	BSE - Pile Extract	ion Procedure Modifica	ition	Closed	04/14/2011	04/24/2011	04/15/2011	Potential	lly
From: Webc	or Construction LP	Masashi Kojima	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Section 02 41 19 and attached response for TG0300-310 Production Extraction Plan BBII proposes to eliminate the "stroking" of the steel casing right before the CLSM is placed. Upon removal of the steel casing, BBII proposes to "stroke" the steel casing after the CLSM is placed. BBII believes the same effect of filling the void will be achieved, and this procedure will help to expedite the Project schedule. Please kindly review our proposal. Your prompt response is appreciated.					not allow the	ceptable. The pr	oposed procedur d CLSM to be me J.		
T-0102	BSE - Confirm Pro	piect Coordinates		Closed	04/15/2011	04/25/2011	04/19/2011	Potential	ilv 🗀
	or Construction LP	Masashi Kojima	To: Turner Construction Cor				ociates, Inc Geor		·y
	ur Beatty Infrastructure, Inc.	Ural Yal	- Tamor Construction Con	pa Dapinio i danvioi	· · · · · · · · · · · · · · · · · · ·		, o. a. co, iii o o o o o	go monegoi	
REQUEST:	•		SUGGESTION:				gestion: g Grid and bearing e numerous cons		



vvebeen/obayasin senit ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 178 of 1053 11/05/2013

Time: Job:

Cost

Date

10:53 AM 30100

30100 - Transbay Transit Center Project

Date

lumber	Subject	Status	Created	Required	Answered	Impact	Proceed
_							

observations and confirm coordinates provided on drawing GT-0100.

Drawings U-0100 has coordinates along the center lines of various streets. The result of those coordinates put a bearing on the center line of Mission Street and Minna Street at North 46° 18 ' 19.6" East and the center line of First Street at North 43° 41 ' 39.0" West. This results in those streets not being at right angles to each other.

Drawings GT-0100 has coordinates on Column Line E. The result of those coordinates puts a bearing of North 46° 18' 09.7" East on the terminal Tills is 00° 00' 10" off from being parallel with Mission and Minna Streets. Is this correct or should Column Line E be parallel with Mission and Minna Streets?

The numerical column lines are shown at right angles to Column Line E, which gives them a bearing of North 43° 41 '50.3" West. It was observed that Column Line 18 appeared to be in almost the same location as the center line of First Street, but First Street has a bearing of North 43° 41 '39.0" West which is 00° 00' 11" different than Column Line 18. Is it just a coincidence that the center line and column line are almost exactly in the same location or should something be adjusted to make the two lines identical?

Please advise if the bearings of the terminal should remain or be changed.

Center Lines) are very close, but at slightly different bearings. The building elements are constructed based on the building grid, whereas the utilities and subsequent street level improvements will be constructed based on the street control lines. The Numerical Bearings of the North South Grid lines appear to be correct. A follow-up survey control meeting should take place to ensure the shoring wall layout is performed as intended.

Date

T-0103 BSE - Existing Concrete Footing Gridline J between Gridline 26.5-30

Closed

04/25/2011

04/15/2011

04/25/2011

Potentially

From: Webcor Construction LP

REQUEST:

Masashi Kojima

To: Turner Construction Compan Daphne Faulkner

Answered By: Turner Construction Comr Jack Adams

Co-Author: Balfour Beatty Infrastructure, Inc.

Ural Yal

SUGGESTION:

Reference Drawings D-5103, D-2203 and GT-5104

Please see attached photos showing an unknown concrete structure discovered on the south side of zone 4. This structure is located between gridline 26.5-30 along gridline J. BBII is not aware of the purpose for this

ANSWER: Accept Suggestion:

Per Contract Spec. 31-56-13 Shoring wall by CDSM Method Para 3.2 Pretrenching and removal of Obstructions, Contractor is to " remove any obstructions that might be encountered along the alignment of the walls. The depth and width of trench shall be that required to remove the obstructions from



Location:

Method:

Obstructions:

A large concrete structure.

Parallel along the 177/181 Fremont Street (Grid line J,

BBII will first expose the obstructions and use an

approximately between lines 26.5-30).

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

179 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
structure, or if it has any affect on the stability of the adjacent structures (177/181 Fremont street). The unknown structure was not present in the BSE contract drawings and is in direct conflict with the CDSM wall alignment, Please advise BBII how to proceed.			The Archaeo exposed sect Further arche pretrenching Spec. 00-08-4.	tion of wall and beological investig continues and a 12 for Archaeolo	cted and viewed to prick debris on 4/1 lation will follow a reas are exposed gical conditions in	1/11. s - Ref: n Zone e per	
			Spec 02-41-0 in accord with	on Spec. 01-74-00	n Debris shall be).	handled	
T-0103.1 BSE - Existing Concrete Footing G	ridline J Between Gridline 26.5-30	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	ly 🗌
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered B	y: Turner Constru	uction Comp Jack	Adams	
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Reference RFI#T-0103 and Specification Section 02 41 01 BBII interprets the Response to RFI T-0103 (BBI 0074) as TJPA's approval for the removal of this unforeseen structure. Please confirm. BBII proposes to follow the method outlined below for the removal of this unforeseen structure. Please confirm in writing that the removal of this unforeseen structure is approved and that provided that it is performed with the method outlined below, no damage to adjacent buildings will occur.	SUGGESTION:		responsibility authorization contract time We take no e	exclusively. RFI of any change ir exception to above ructure. This wo	gestion:	t	
Pre Trench Obstruction Removal Method							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 180 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBII employees during the Demolition.

Additional Details:

As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA if additional structures or items are encountered.

T-0104 BSE - Request for Report (PSI for Caltrans)

Masashi Kojima

To: Turner Construction Compan Daphne Faulkner

Closed

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

From: Webcor Construction LP

REQUEST:

Reference Specification 01 13 50 and 00 03 35

The Site Mitigation Plan in Spec section 01 13 50 of Volume 1, References the report "PSI for Caltrans, 1999." After looking through the contract documents for the Analytical back-up, BBII, Treadwell & Rollo, and Republic Services, have not been able to find it. It is necessary to have this information to properly dispose of the Hazardous Materials.

To Complete the Profile of the work site, the Disposal facility, Republic Services, BBII need the Lab Data/Analytical Data from the report.

At this time, the lack of information is halting the process of Material Off-Haul.

Please Advise, or supply the Needed Report Information.

SUGGESTION:

04/18/2011

04/28/2011 04

04/18/2011

Potentially

Answered By: Transbay PMPC

Alfred Lau

ANSWER: Accept Suggestion:

Caltrans' Site Investigation Report for SFOBB West Approach, prepared by PSI in 1999 can be assessed from Constructware or from ftp site as below:

ftp://ftp.tjpa.org/Document%20Control/1104168/

Log In Instructions

- 1. Enter case-sensitive Username (public) and Password (PublicFTP1)
- 2. Select View\Open FTP Site in Windows Explorer
- 3. Drag file(s) to your desktop

Please contact PMPC Document Control should there is problem of accessing the information.



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

Accept Suggestion:

ANSWER:

181 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0105	BSE - Train Box B	eam Sizes		Closed	04/20/2011	05/02/2011	04/22/2011	Potential	ly 🗌
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	• Ш
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attache	ed sketches and Sheet S	S1-3201			Thornton Tom		9		
the permanent co provided additiona 0035.1, and a nur changed in size. It should be 5' wide 3201. However, fir these all appear to beams are critical location of our ter the structural draw advise if these be schedule A, or if to	provides information on proceed structure. BBII was all structure sections in rember of the beams appeared according to schedule Arom the section provided to be sized at 7' wide. The I in determining the final material mporary bridges. BBII activities are not to be scaled at the process are to be 60" wide at they have increased in significant with the section provided at the section provided to be sized at 7' wide. The I in determining the final material process are not to be scaled at the section of the sectio	as recently esponse to T- ar to have 5, 34, & 35 a on drawing S1- at gridline A, e sizes of these geometry and knowledges that ad, so please as indicated in ze to 84" wide.			Ground Level is "in-progress	have increased	nes 18, 26, 34, & 3	e design	
Γ-0106		Connection from Meta	_	Closed	04/20/2011	04/30/2011	04/27/2011	Potential	ly
From: Webcor Co Co-Author:	nstruction LP	David Hungerford	To: Turner Construction Compa	n Daphne Faulkner	Answered By	URS Corporat	ion David	d Fyfe	
			OLIO CECTIONI		ANOWER				
REQUEST: Reference: E & C	·/S 5000		SUGGESTION:		ANSWER:	Accept Sug	gestion: ners are for interio	r 1100	
Please see E & C their shop to set # steel, as per plan. therefore Transwo into the structural the X-U Universal photo showing the steel. Welding is	c/S-5000. Transworld has #10 SMS through the stru. The attempt was unsuched tried the use of a Hillisteel. Attached are Hiltist Knurled Shank Fastene EX-U fastener through the another option for conneise how Transworld is to	uctural tube scessful, ti X-U fastener spec sheets for r as well as a ne structural ction to the tube			only and are n Mission exterion structural stee coating and is To fasten met may: 1) Use s X-CR fastener	not acceptable for screen wall. I paint and light not an accepta al stud to struct hot pins rated f	or use on the 301 Welding will dama gauge steel galva ble means of con ural tube steel color exterior use (i.e or 2) Pre-drill holes	age the anized nection. ntractor	
Γ-0107	RSF - Visual Tost	in Lieu of Formally Toss	ting for Verticality in CSL Tubes	Closed	04/20/2011	04/30/2011	04/22/2011	Potential	ılv 🖂
From: Webcor Co		Nhi Tran	To: Turner Construction Compa				ociates, Inc Georg		ν, [
Co-Author: Balfour Bea		Ural Yal	- Tamor Conditional Compa	aprillo i dullitioi			00.000, 110 0001	,	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 182 of 1053 Date: 11/05/2013 Time:

Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

Reference RFI#T-0057, Sheet GT-5202, Specification Section 31 63 29, and attached documents CPM Activity Impacted - Buttress Wall

Below are three cases (A, B, and C) in which formally testing for verticality on CSL tubes, BBII argues would prove to be highly unusual and counter-productive:

A. Specification Section 31.63.29.I.3 states "The contractor shall perform a test to determine verticality of the steel tubes, or drilled holes, that are going to be used for the sonic tests." Balfour Beatty has been advised by a number of testing firms that verticality tests cannot be performed on steel access tubes as well as piles reinforced with steel. Magnetic interference from steel reinforcement and steel tubes will cause the instrument to not function properly. BBII has also been advised by Terracon (please see attached email from Dextra), a reputable CSL testing firm that there are currently no known cases in the US where verticality of CSL tubes in steel reinforced piles have been formally tested.

B. Attached is a case study that details the investigation of debonding that occurs when using PVC as CSL access tubes. The results of this study clearly show the use of steel tubes (BBII is proposing to use Sonitec tubes) should be preferred over PVC.

C. After doing some research, the closest we came to find any mention of verticality in CSL tubes was this excerpt from EPA's website which states, "If the CSL access tubes are not installed in a near-vertical position and/or the distance between them varies significantly along the length of the shaft, errors in velocity calculations may occur." Judging by this approach to verticality in CSL tubes in most specs. BBII concludes that parallelism and symmetry between tubes are more important factors in ensuring accurate CSL test readings.

In summary, BBII in lieu of formally testing the CSL tubes for verticality will perform a visual test making sure that the tubes are symmetrical (equally spaced) in a circle and parallel. This is the most important inspection to ensure accurate pulse readings.

ARUP Response:

This is acceptable.



building owners, and BBII will only be responsible for

cleaning

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

183 of 1053 11/05/2013 10:53 AM

30100

Date: 11 Time:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please confi	irm that this is acceptable.								
	·								
-0108	•	•	From Dust and Debris Generated By Demol	i Closed	04/20/2011	04/30/2011	04/29/2011	Potential	ly
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compan Dap	ohne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfou	ır Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference S	Specification Section 01 15 40)					ctor has satisfied and debris genera		
	irm that the demolition contra				demolition co	ntract to the sat	sfaction of the ac	djacent	
	nent to clean all dust and debe contract to the satisfaction of t						was confirmed th d Singer Associa		
building own	ners, and BBII will only be res	ponsible for					g		
	st and debris generated by BE after the turnover of these are								
-0108.1	BSE - Building Ad	ljacent Zone 3 Clean I	From Dust and Debris Generated By Demol	i Closed	05/04/2011	05/14/2011	05/18/2011	Potential	ly
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compan Dag	ohne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference re Section 01 1	esponse to RFI#T-0108 and \$ 15 40	Specification					I dust generating e 3 for BBIi use o		
	ts information on the measure	es used to clean							
the adjacent	t structures						lid commence wo or dust control in		
	- BSE - Building Adjacent Zo					n and Monitoring mpletion of BBii	Specifications fr work activities.	om 4-	
Dust and De	ebris Generated By Demolition	n Work			BBII is only re	sponsible for cl	eaning dust and	debris	
Question -	Specification Continue 04 45 40				generated fro	m [·] Zone 3 durino	BBII operations		
	Specification Section 01 15 40 irm that the demolition contra				13-11 going fo	orwara.			
	nent to clean all dust and deb								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 184 of 1053 11/05/2013

Date: Time: Job:

: 10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
dust and debris ge operations, after th									
Response - Confirmed. Demoli requirement to clea demolition contract to the sati- to date. This was o both EBi and Singer Ass	an all dust and deb sfaction of the adj confirmed through	oris generated by acent building owners							
T-0108.2		•	From Dust and Debris Generated B		05/04/2011	05/14/2011	05/27/2011	Potential	ly
From: Webcor Con: Co-Author:	Struction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Turner Constru	uction Comp Jack	Adams	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gostion:		
Reference respons Specification Section		RFI#T-0108.1 and	SUGGESTION.		There are no the adjacent b	prescribed mea	sures. The cleanlective. Cleanlines requesting clean	s is	
The response to R requested informat		ot provide the			their property initiated by the	upon completio	n of demolition we erty owner/manag	ork and	
W/O requests infor the adjacent struct		asures used to clean					epresentative and	Singer	
RFI#T-0108.1 - BS From Dust and Del									
W/O requests infor the adjacent struct		asures used to clean							
 RFI#T-0108 - BSE	 - Building Adjace	nt Zone 3 Clean From							

Question -

Reference Specification Section 01 15 40
Please confirm that the demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent

Dust and Debris Generated By Demolition Work



provided direction for decommissioning or abandoning

these utilities per BBII drawing # D-2230 Note 2

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

through D-5103. Beale St. Zone 4 sewer/storm drain

piping decommissioning/abandoning scope is defined in the Webcor-Obayashi RUP Relocation of Utilities

185 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
cleaning dust and debris ge operations, after the Response - Confirmed. Demo	and BBII will only be respended by BBII during he turnover of these are	its own completed.							
demolition contract to the sat	ean all dust and debris g tisfaction of the adjacent confirmed through conve ssociates.	t building owners							
T-0109	BSE - Existing Dra	ains & SD Basin Cle	ar Of Debris Generated By Demo	Contract W. Closed	04/21/2011	05/01/2011	05/03/2011	Potential	lly
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction (Compan Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Bea	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please confirm pe that all active SD debris generated I	cation Section 01 15 40 er the site walkthrough o and sewer have been cl by the demolition contra as-builts to confirm the	n 04-18-2011 eared of all ct work.			Catch Basins occasionally houtside of the contractor will	and inlets to stonas cleared debrium demolition continuous provide per Derivation contraction contraction de la contract	ntinuously covered the sewers and consistent of the sewers and consistent	others ition -41-13	
T-0110	BSE - Existing Uti	lity Decommissioni	ng Zone 4	Closed	04/22/2011	05/02/2011	05/02/2011	Potential	lly
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction (Compan Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Bear	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI#T- Specification Sect	-0083, Drawing Sheet Dition 02 41 01	-2230, and			sewer/storm of		of the Zone 4 dewatering work act scope. The be		
RFI response to R	RFI#T-0083 issued on 4-	15-2011 has not					D-2230, D-2231,		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

186 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

			<u> </u>					
lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please advise on decommissioning the dewatering work has been completed.	e utilities after			drain piping d	lecommissionin	. Zone 4 sewer/st g/abandonment wi cation of Utilities F	ith the	
				decommissio utilities which BSE contract Obayashi RU will be contac	ning or abandor is outside the s and the RUP cop Relocation of ted for reroute controls.	I 84.1 for Parcel Ning these Parcel I cope of the Demontract. Webcor-Utilities Project Mecommissioning, I N parking lot stor	N dition, anager or	
-0111 301 Mission W	all - Torque Spec		Closed	04/22/2011	05/02/2011	04/28/2011	Potential	ly 🗌
From: Webcor Construction LP	David Hungerford	To: Turner Construction Compa	n Daphne Faulkner	Answered By	y:URS Corporat	ion David	d Fyfe	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S-5000				,		chor bolts shall be	е	
In regards to the structural steel bolts a Wall, please confirm that the torque spattached email.				installed snug	g tight to a torqu	e of 150 ft-lbs.		
-0112 BSE - Project (Control		Closed	04/22/2011	05/02/2011	05/10/2011	Potential	ly 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	y: Turner Constr	uction Comr Daph	ne Faulkneı	. —
Co-Author: Balfour Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet GT-0100 and Specifi 10 50	cation Section 01			Response pro	ovided by PMPC	;.		
Drawing GT-0100 shows four control p surveyor, KCA Engineers, have survey and found the following: 1) Survey Control Point #101: This poi damaged - the brass disk is missing, the remains in the concrete sidewalk. The	red their locations nt has been nough the rivet			Webcor/Obay their subcontr domain of res coordinate the Chaudhary &	ractors and this sponsibility. Plea eir Survey Subc Associates) pro	ible for coordination RFI lies within the	et T05.1 o their	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 187 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost

Status Date Date Cost

Created Required Answered Impact Proceed

the concrete BBII assumes would intersect on the brass disk.

- 2) Project Benchmark Point #54: KCA was able to locate this point. Please confirm that it is acceptable to use the coordinates of this point for horizontal control, even though it is listed as a benchmark.
- 3) Survey Control Point #106: KCA was unable to locate this point.
- 4) Survey Control Point #105: KCA was able to locate this point.

With the current condition of the provided control points, KCA is not able to do a hard check on their survey work.

Please confirm that all the control points above may be used for the TG03 BSE Trade Package. Please reset the damaged or missing points for KCA's use.

- 1) Regarding Control Point #101 by Martin M. Ron (Drawing GT-0100), TJPA is requesting a meeting with Martin M. Ron (DPW). In the meantime W/O surveyors should assume that the riven and cross marks constitute the mark on Drawing GT-0100 and to submit the results of their check survey against the other remaining points to see if the given coordinates match those given on Drawing GT-0100. W/O should consult with Chaudhary & Associates now under subcontract to W/O, as to how Chaudhary & Associates used this point and whether it was damaged then. TJPA will set up a meeting with Martin M. Ron, Chaudhary & Associates, W/O and TJPA representatives.
- Regarding Project "Benchmark" Point #54, the coordinates of this point given on Drawing GT-0100 are given for use as line survey control as well as elevation.
- 3) Regarding Control Point #106 (Drawing GT-0100), W/O is to consult with DPW and Chaudhary & Associates as to their knowledge of the last time this point was located. This can be done by W/O alone or in the meeting the TJPA representative will set up. With the 3 remaining Control Points #101, #054, #105 (Drawing GT-0100), W/O should use the given position of Control Point#106. If this has already been done TJPA will re-establish this Control Point.
- 4) No action requires.

TJPA requests that the BBI and W/O surveyor submit their notes on what they have completed and verified to date.

T-0112.1	BSE - Project	Control	Closed	05/20/2011	05/30/2011	05/24/2011	Potentially	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By	Transbay PMP	C Alfre	ed Lau	

Co-Author:

REQUEST:
Reference RFI#T-0112, Transmittal No. 140-01593, Sheet

SUGGESTION:

ANSWER: Accept Suggestion: Adopting Chaudhary's survey grid control document is



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

188 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
GT-0100, Speci	fication Section 01 10	0 50, and attached			acceptable.				
was transmitted (URS) on 5/18/1 following a meet F3, DPA and TJ control points sh	PA. In an effort to co	and Agnes Katanics 01593, attached) on 5/17/11 with URS, onfirm the four survey haudhary discovered							
approve Chaudh included as part	ing points, W/O requinary's Survey Grid Co of transmittal #140-0 sing from GT-0100 re	ontrol Document 01593, or have the							
0112.2	BSE - Project	t Control		Closed	07/14/2011	07/24/2011		Potential	ly 🗌
From: Webcor C	onstruction LP	Tim Maxwell	To: Turner Construction Compa	n Daphne Faulkner	Answered By:				
o-Author:									
REQUEST: Reference RFI #	#T-0112.1 and attach	ned drawing	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
alleged property Fremont streets provided by the Associates com forwarded for TJ Transmittal # 14 recommended ti as indicated with presented to Bru	nin the attached (coo uce Storrs of DPW fo Has this been accom	t between Beale and CAD file data /. Chaudhary & he results were 20, 2011 via Ismittal it was Line (PL) data points or verification of PL							
Webcor/Obayas	as previously confirm thi is ONLY using Gri erence, layout and st	id Control for							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

189 of 1053 11/05/2013

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0113	BSE - Unforeseen	Object - Metal Casing In F	roduction Pile Extraction Area	Closed	04/22/2011	05/02/2011	04/25/2011	Potential	ly 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attac	ched sketch and photo						noved per Spec. (
area and expos casing was disc	excavating the production ing the timber piles on 4/1 covered close to pile 3020 in how to proceed.	9/11, a metal			the casing is o	over an existing otech Engineer	erground Structur wood pile - notify prior to removal -	the	
					Spec 02-41-0		estructions shall b n Debris shall be).		
-0114	BSE - Monitoring	Plans and Data for Zone 3		Closed	04/27/2011	05/07/2011	05/12/2011	Potential	ly 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	uction Comr Daph	ne Faulknei	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spec	cification Section 01 35 65	;					t mitigation moni		
BBII requests a	t the site walk through me copy of the demolition co ata in relation to demolition toring of Zone 3.	ntract monitoring			65 is comprise	ed of many diffe	cification Section rent required sub which one you are	mittals	
-0115	BSE - Hazardous	Material Removed From Si	te in Zone 3	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	ly 🖂
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Turner Constru	uction Comr Jack	Adams	· 🗀
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal	·	•			·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
Reference Spec	cification Section 00 03 35	;				aterial has been	removed from si	•	
	that all hazardous materia ite per the extent of demo nes 3.				Zone 3 above demolished to drawings and materials about scope of demolished Drawings D-10 representation hazardous macut/capped and	ground structure extent shown of Demolition Spetement scope wollition only. Refe 050, D-1051 and of limits of structural abatement were demolis	act drawings for z res and foundatio on Demolition coi c. 02-41-00. Haza as completed wit er to Demolition d D-1073 and D-1 ictures demolished tt. Utilities were hed to extent sho and Demolition S	ns were ntract ardous nin the 074 for d and wn on	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 190 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

					Date	 Date	Date	Cost	
Number	Subject			Status	Created	Required	Answered		Proceed
					02-41-00. Rei 1215 inclusive removal of uti	e for representat	0-1202-1207 and ion of limits of ex	1210- tent of	
					BSE Contractor to handle remaining Hazardous Materials in accord with their contract documents. Ref: BSE Drawings D-5101 and D-5102 for extent of BSE Demolition.				
					abatement in and Safety Ci BSE Spec. 02	accord with BSI riteria Para 1.2 a	naining demolition E Spec 00-08-14 and 1.3 Lead haza tion" and BSE Sp Procedures".	Health ards,	
									-
T-0116	BSE - Demolition	Contract Drawings		Closed	04/27/2011	05/07/2011	05/02/2011	Potential	ly 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	y:Turner Constru	uction Comp Jack	Adams	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	BBII with an electronic copy struction' drawings for the d				electronic cop	ontract Webcor-	Obayashi for an lissued for constr	uction'	
T-0116.1		Contract Drawings		Closed	05/03/2011	05/13/2011	05/03/2011	Potential	
From: Webcor C		Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	y:Turner Constru	uction Comp Daph	ne Faulkner	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Reference response	onse to RFI#T-0116						ıction drawings w via Transmittal #1		
drawings" in PD past communica If the confirmed	shi cannot verify "issued fo DF format for the demolition ations. I drawing set was sent to W et us know the transmittal	n contract in the Vebcor-Obayashi			00076 in Proj		structware. Pleas		
	end us the drawing set imm	nediately.							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: Time:

Job:

191 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
 Please supply BB	 BII with an electronic cop	oy (PDF), of the							
'issued for constr contract (EBI).	ruction' drawings for the	demolition							
T-0117	BSE - As-built Dr	awings for Utility Dec	ommissioning in Zone 3	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	lly
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Demo 1203, D-1204, D ⁻¹ 41 01	Contract Drawing Shee 1205, D1206 and Specif	ets D-1202,D- fication Section 02			have been de the demolition	-built drawings f commissioned,	or Zone 3 utilities or cut and cappe ached. Drawing	ed per	
	s-built drawings for all u sioned, or cut and cappe act for Zone 3.				NOTE: Demo responsible for completion of	lition contractor	is not contractua ir As-Built drawin hich is June 201	ngs until	
T-0118	BSE - Crash Cus	hion Modules on Nato	ma & Minna Street	Closed	04/27/2011	05/07/2011	05/02/2011	Potential	lly 🔲
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Demo	Contract Drawing Shee	et D-1007 - Note 5				emolition Contra	ctor will install C		
Demo Drawing D	sh cushion or k-rail as s -1007 note 5 has not be ne above will be installed	een installed.				a St. and Minna	nstalled on Frem St. in accord wit		

T-0119 301 Mission Wall - Metal Stud Layout Alignment From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Daphne Faulkner

Closed

04/28/2011

05/08/2011

05/05/2011

Potentially

Answered By: URS Corporation

David Fyfe



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 192 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proce
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI T-0098, Sheet A-6000 Per response to RFI T-0098, the 10" x 10" tube steel columns are to be set in the center of the 14" concrete wall. The architectural drawings (sheet A-6000 dated 11/04/10) show 10" metal studs aligning with the 10" tube steel, however, per response to RFI T-0098, the tube steel is to shift in the architectural drawings 1/2" and align in the center of the concrete wall. Please confirm that the metal studs will remain per plan, and not shift as the steel tube has.			COCCESTION.		ANSWER: Accept Suggestion: The light gauge steel studs will remain per plan as shown in Section B on S-5000. The light gauge steel studs shall be placed on both sides of the tube steel as shown on the contract documents. Per direction provided at 5/2 weekly coordination meeting, 1 - 5/8" light gauge studs shown on Detail A, Sheet A-6000 shall be in line with 10" light gauge steel stud (i.e. both sides of tube steel).				
0120	301 Mission W	/all - Stone Panel Layout		Closed	04/27/2011	05/07/2011	05/20/2011	Potential	ly 🗌
From: Webc	or Construction LP	David Hungerford	To: Turner Construction Compan Da	aphne Faulkner	Answered By	:URS Corporati	ion Davi	d Fyfe	- Ш
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
achieve a m Please clarif 5000 are to	042, the concrete wall heigh in 18" above the finished fy if the exposed concrete to be min 18" above the p enthe exposed concrete wo	paver surface. areas shown on A- avers. If so, the 1st			sections, full of paver (and ends) shall be Cutting of sto 6.84" and cut shown in atta 0120" and "Pi to URS from acceptable.	neight of concre finished concre e exposed. ne panel(s) to a ting of stone par ched sketches, art of Sheet A-50 Webcor-Obayas	exposed concrete te wall above finite te walks at east a height of approxi- nels in an "L" sha "Attachment for F 000" transmitted/ hi on 5/19/2011 i	shed top and west mately pe as RFI T- emailed s	
					panels shall e paver/concret attached sket URS."	extend down to fi the walk. See ann ch, "Part of She or: David Fyfe on	notation by URS o et A-5000_Annot	on	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 193 of 1053 11/05/2013

Date: Time: Job:

13-50 "Hazardous Materials Procedures".

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0121 301 Mission W	all - Aluminum Panel Layo	ut	Closed	04/27/2011	05/07/2011	05/10/2011	Potential	ly 🗌
From: Webcor Construction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:URS Corporati	ion Dav	d Fyfe	
Co-Author:								
REQUEST: Reference: A-5000 Regarding the aluminum panels on the 301 Mission wall, bottom panel at each end of the wall will need to be trimmed. The standard panel is 2-11 1/2" tall, but the bottom panel measures out to be 2'-1"+/- on the west end and 2'-9"+/- on the east. Please confirm that this is acceptable. If not, please advise.				original aluming panel(s), as so an approxima and top of exion contractor should be panel and top acceptable to than 2' - 11-1/2	num panels. Exi hown in photos te 1" gap betwer sting grade. all place bottom proximate 1" ga of finished/exist provide bottom '2" tall to provide om of panel(s) al	inum panels sha sting bottom alu on sheet C-5010 en the bottom of aluminum pane p between botton ting grade. It is panel(s) that are a an approximate	minum , have panel (s) to n of	
-0122 BSE - Hazardo	ous Material Removed From	Zone 3 (Potential Contaminated Ma	terial Closed	04/29/2011	05/09/2011	05/02/2011		
From: Webcor Construction LP Co-Author: Balfour Beatty Infrastructure, Inc	Nhi Tran c. Ural Yal	To: Turner Construction Compan				uction Comp Jack	Potential	ly

SECTION 00 03 35 ¿ EXISTING CONDITIONS: HAZARDOUS MATERIALS

The TJPA's attention is directed to the following Section of

"1.2 HAZARDOUS MATERIALS REPORTS

the Specifications:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

194 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

This is not a new contract requirement. SASM is referred to on A-6000 in two different instances. It is

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
A. The TJPA's enviror the facility for the pres materials. Materials in lead, PCB ballasts, m contaminated soils, ur hazardous materials. Demolition project (Evremoving and abating or PCB ballast, and materials).	sence of various had evestigated may includer ercury containing landerground storage The demolition contains Brothers Inc.) in products containing	zardous lude asbestos, lmps, tanks, and other tractor for the s responsible for g asbestos, lead,							
T-0123	301 Mission Wall	- SASM and Insulation Ta	pe Materials	Closed	04/29/2011	05/09/2011	05/05/2011	Potential	ly
From: Webcor Constru	uction LP	David Hungerford	To: Turner Construction	Compan Daphne Faulkner	Answered By	:URS Corporati	on David	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S-0002, A Clarification is reques on Sheet S-0002, and sheets). Note 1 within notes on page S-0002 tape between treated note 2 on page S-000 material, but on the de shown to be used in the insulation tape. It that the insulation tap referenced on sheet A these two different ma areas.	ted regarding the not A-6000 (see attact the "WALL FINISH 2 says to use insula wood surfaces and 2, SASM is specfied etails of page A-600 he same areas as is the interpretation e is to be used at al A-6000 as "SASM".	ned marked up " section of the tion separation steel framing. In d as a different 00 SASM is s described for of Transworld I locations Please clarify if			and metal sur waterproofing on the contract These two ma overlap in cer provided betw	faces. SASM sh barrier around to to documents. Aterials (SASM a tain locations wh	between all treate all be used as a he entire wall as and insulation tap here insulation tap and metal surf so required.	shown e) may pe is	
T-0123.1	301 Mission Wall	- SASM and Insulation Ta	nna Matarials	Closed	05/06/2011	05/16/2011	05/09/2011	Potential	lv 🖂
From: Webcor Constru		David Hungerford		Compan Daphne Faulkner		URS Corporati		d Fyfe	'y
Co-Author:	JOHO!! LI	David Hallychold	· · · · · · · · · · · · · · · · · · ·	Compan Daprine Faulkhei	Alloweled Dy	TONS Corporati	on David	u i yi c	

SUGGESTION:

Reference: RFI T-0123, A-6000, S-0002

REQUEST:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

195 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transbay Transit Center Project

				9		•			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
contract documents to create a waterprowall; however, the complete waterpropage A-6000 instruction points where pressuctions comes in contact witherefore, would not entire length of the "SASM" was intend the application local called out and descinsulation tape defir	ded to RFI T-0123 is in conflict with the . The response requires the contractor ofing barrier for the entire length of the ontract documents do not indicate a fing barrier. References to SASM on ts the application of SASM at all re-treated or moisture resistant wood the metal. This application instruction, result in a waterproof barrier along the wall. Please clarify if on the details ed to read "insulation tape", because ions of the SASM, as per A-6000, are ibed to be at all locations of the ed on S-0002. it the intention of the design team to erproofing not shown on the contract				elements. At be used. The back face of	t these locations, ere is also SASM	shown on the from on Detail D, A-	ne insulation tape shall hown on the front and on Detail D, A-6000.	
T-0124	301 Mission Wall	- Dimension Between So	reen Wall and Existing Garage Wa	II Closed	05/02/2011	05/12/2011	05/31/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered E	By: URS Corporat	ion Davi	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: C-2000							Ill height of the ne		
	ween the new location rage wall is approx 8". be closed off.				this gap mus requirements requirements	st meet ADA hands as well as the w	vind and seismic l Figures 1, 2, and	oading	
					Contractor n		eeting on 5/23/20 ested alternatives RS to review.		

From: Webcor Construction LP

301 Mission Wall Enclosure Panel Method of Connection

Michael Constable

Closed

09/01/2011

09/16/2011

09/13/2011

Potentially

Answered By: URS Corporation

Co-Author:

T-0124.1

To: Turner Construction Compan Gary Krutsch

David Fyfe



From: Webcor Construction LP

Co-Author: Balfour Beatty Infrastructure, Inc.

Nhi Tran

Ural Yal

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

196 of 1053 11/05/2013

Time: Job:

Douglas Jacobson

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject	<u>Status</u>	Date Date Cost Created Required Answered Impact Pro
REQUEST: Reference: RFI T- 0124, URS response to RFI T- 0124 Per recent Change Order negotiations for the required 301 Mission Wall end panel per RFI # T-0124, the panel detail is now being revised to a two-piece, glued enclosure panel. Please confirm the method of two-piece panel attachment to the existing wall is the same as that indicated in RFI # T-0124.	SUGGESTION:	ANSWER: Accept Suggestion: Material substitution (two 1/8" thick aluminum panels glued together in lieu of a single 3/16" thick aluminum panel), "Proposed gap closure per RFI #T-0124-Option3" provided in attached Change Request No. 10C from Transworld Construction Inc. to Webcor/Obayashi dated 7/26/2011 is acceptable, provided aluminum panels are fastened to metal stud with rivets or sheet metal screws at 24" o.c.
T-0125 BSE - CDSM Corner Overlap	Closed	05/02/2011 05/12/2011 05/06/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By: Adamson Associates, Inc George Metzger
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal	191 Turner Construction Company Daprine Faulkner	And the control of th
REQUEST: Reference Sheets GT-2101-2103, GT-5101 and Specification Section 31 56 13	SUGGESTION:	ANSWER: Accept Suggestion: ARUP Response:
In the Owner's preferred method of soil mixing, the triple auger method, a continuous wall is formed by drilling adjacent sets of columns with a 100% overlap of the outer columns (see 2/GT-5101). A CDSM wall's strength, permeability, and homogeneity is largely contingent upon this remixing action. This overlap also helps ensure the verticality and alignment, as the augers in the secondary panels tend to follow the path of the outer columns of the primary panels. Based upon the beam and column layout shown in GT-2101-2013, the corners formed by Wall Segment A/33.5-35 & 35-1 and R2-1 & X1-1 do not receive the complete remixing obtained by the typical 100% outer column overlap. These corner details are atypical compared to industry standards, and will lead to permeability issues. Is it acceptable to move a small number of beams slightly closer together (~0.1') near those corners, such that the panel layout is shifted enough to have a 100% column overlap at the corners?		Arup received from DND the two sketches attached to this response at the BSE meeting on May 4, 2011 as further clarification of the Contractor's proposal. The Contractor's proposal is acceptable.

To: Turner Construction Compan Daphne Faulkner

Answered By:Transbay PMPC



Reference Specification Section 02 41 01

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

The obstruction was removed by BBI. Remove pretrench obstructions per contract requirements and

197 of 1053 11/05/2013

Time: 10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In order to drive sheet piles for the hammer head wall location along Fremont St and the North West Corner of Zone 4, BBII requests confirmation of the abandonment of all utilities east of the PG&E electrical duct bank. BBII also will need the As-Build drawing of the PG&E duct bank location. BBI needs this information to proceed on the extra unforeseen concrete wall in the hammer head area of the					Today, 5/11, BBI has sawcut AC and removed one lane-width and two laborers have exposed the utility lines in the street east of the PG&E duct bank. Verizon came and cut two of their 4" ducts. The remaining lines will be identified by the utility subcontractors in the next day or two. Please contact Jason Dunne (W/O) for the field conditions of abandoned utilities.			utility	
	n concrete wall in the hamme								
-0127	BSE - Openings	Below Screen Wall at	301 Mission Building	Closed	05/04/2011	05/14/2011	05/16/2011	Potential	ly
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	:URS Corporati	on David	Fyfe	
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In the north openings be structure. east of grid approxima	Sheets GT-2201, GT-5102 Schotos hwest corner of Zone 4, BBII below the screen wall in the 30 The first opening is located applicated applicated application and the second open tely 8 feet east of gridline 29. kimately 18" x 36" in size. (Second Schotos	has exposed 2 01 Mission proximately 6 feet ing is located These openings			screen wall is Screen Wall c	specified in the ontract docume work amongst t	n shafts/openings 301 Mission Inter nts. Webcor-Oba radegroup	im	
documents an expedit	enings are not shown on const s. Please advise how to proce ed response prior to the end or r is pertinent to backfill operati	ed. BBII requests of this week, as							
-0128	BSE - Old Existi	ng Concrete Floor Alor	ng 301 Mission in Zone 4	Closed	05/05/2011	05/15/2011	05/12/2011	Potential	ly 🗌
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Daphne Faulkner	Answered By	Transbay PMF	C Doug	las Jacobso	on
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



T-0130

From: Webcor Construction LP

301 Mission Wall - FCR 043 Concrete Wall Crack

David Hungerford

Webcor/Obayashi Joint Venture

Page: Date:

198 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost	Process
Number	<u>Subject</u>			Status	Created	Nequireu	Allswereu	<u> шпраст</u>	Proceed
along the 30 the 301 Miss between Gric section of thi Grid Lines 29 within the pre appears to B further into the continues fur	enching, BBII found an existi 1 Mission St garage wall. It is ion building wall and the butt d Line 29 and 30. BBII has ex s floor (approximately on Gri- e and 30), and have demolish e-trench area that has been e BI that this unforeseen obstr ne buttress area. If this unfore ther into the buttress area, it so the buttress construction of	s located between ress area cosed a 20ft-30ft d Line A between ned the slab exposed. It uction continues eseen obstruction would have to			Force Accour	nt agreement wit	h TJPA.		
	e on how to proceed.	Timber Dile in Dre T	anah Alang 204 Missian in Zana 4	Classed	05/05/2044	05/45/2044	05/06/2014	Detential	
T-0129 From: Webco	r Construction LP	Nhi Tran	ench Along 301 Mission in Zone 4 To: Turner Construction Compa	Closed an Daphne Faulkner	05/05/2011 Answered By	05/15/2011 / :Adamson Asso	05/06/2011 ociates, Inc Geor	Potential ge Metzger	ly
Co-Author: Balfour	r Beatty Infrastructure, Inc.	Ural Yal	·	·			·		
	pecification Section 02 41 01	and attached	SUGGESTION:		ANSWER: Arup Respons	Accept Sug	gestion:		
photo	enching, BBI discovered exis 1 Mission St garage wall betv				piles 16 to 18 in order to mi beneath the F	" from the face on nimize ground lo PG+E vault and	per piles along the of the 301 Mission oss at 20 to 30 ft of adjacent corridor, to carry out the p	ı wall: lepth BBI	

To: Turner Construction Compan Daphne Faulkner

Closed

05/06/2011

05/09/2011

Potentially

David Fyfe

05/16/2011

Answered By: URS Corporation



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

199 of 1053

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
See attached FCR N Mission concrete wa corner. This had bee Transworld's subcor TJPA, Webcor-Oba	ondition Report No. 043 No. 043. The east end all has cracks and also en discussed on 05/02, ntractor meeting with T yashi, and Transworld. Id is to repair the spalli	of the 301 spalled in one '11, in urner, URS, Please advise	SUGGESTION:		shall be restord 5.3.7.3. An epo of bonding gro concrete interficoncrete and produced to the contact engine of	ed in accordance by bonding agout where new cace. After remoration to restoration to inspect the beyond/into the the concrete slaround the reir or shall shore/s	imoved and concrece with ACI 301 Seent shall be used in oncrete and existing and of the defective on, contractor shall be removal areas in anchor bolts and hall be removed inforcement and anapport the existing in order to prevent	ection in lieu ing e il ifield.	
-0130.1 From: Webcor Cons		FCR 043 Concrete Wall David Hungerford	Patch Material To: Turner Construction Con	Closed mpan Daphne Faulkner	06/09/2011 Answered By:	06/19/2011 :URS Corporati	06/13/2011 on David	Potential Fyfe	ly
REQUEST: Reference: FCR #04 data Response to RFI T- damaged concrete a in Field Condition Re sheets which satisfy to RFI T-0130. Pleas	43, RFI T-0130, and at 0130 directs Transworl at the 301 Mission Wal eport 043. Attached are the requirements note se review and confirm are acceptable to patch	d to repair the l, as described e product data d in response that the	SUGGESTION:		damaged cond	rete. All mater ced in accordan	gestion: acceptable to patch ials shall be prepal ace with manufactu	red,	
-0131 From: Webcor Cons		Framing Modifications David Hungerford	and Base Plate Conflict To: Turner Construction Cor	Closed mpan Daphne Faulkner	05/06/2011 Answered By:	05/16/2011 :URS Corporati	05/20/2011 on David	Potential Fyfe	ly
REQUEST: Reference: C/S-500 referenced RFI's	0, B/A-6000, attached	sketches, and	SUGGESTION:		flush with stuc	co slot/face of c	gestion: cut base plate neaconcrete. Extent of	cut(s)	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 200 of 1053 Date:

11/05/2013 10:53 AM

30100

Time: Job:

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subject Status Impact Proceed

Field verified measurements and layout for the location of the structural steel does not coordinate with the stucco inset locations as shown on detail C/S-5000. In addition framing around the perimeter of the wall (aluminum panel locations) had to be modified due to assembly and installation methods. (See attached pictures and sketches. This RFI addresses three framing issues. All issues have been discussed in the weekly 301 Mission Wall subcontractor meeting with URS, Turner, Transworld, TJPA and Webcor-Obayashi.

- 1.) In two of the four stucco slot locations, field conditions show that a portion of the base plate conflicts with the stucco slot. This base plate encroaches into the stucco panel per dimensions shown on the attached sketch. Please advise.
- 2.) The structural steel had been relocated to CL of the wall (per RFI T-0098) and therefore studs around the steel per B/A-6000 could not be set per plan. Transworld has installed hat channel metal framing to the face of the structural steel tube using fasteners into the structural steel as per RFI T-0106 as well as modified the boxed framing per attached sketches around the perimeter of the wall. Sizes of metal framing were used to align with adjacent framing per plan. This work is currently installed, please confirm framing modifications per attached marked up details are acceptable.
- 3.) Blocking a the top of the wall at the north side (between the framing and 8"x 8" tube steel) was not installed, as there was no room between the framing and steel. Framing was attached directly to the tube steel. See attached.

Please confirm that the framing modifications in item 2 and 3 are acceptable and provide direction at the base plate conflict per item 1.

sketch. "RFI T-0131: (Item 1) Base Plate conflict with slot locations" provided by WO/Transworld. Contractor shall field apply complete paint system as stated in contract documents following cutting procedures. Any damage to non-shink grout and/or concrete below shall be repaired. All architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) shall be installed as shown on contract documents.

Item/Issue 2) We note this request is for convenience of the Contractor and on this basis take no exception to the framing modifications as shown in attached sketches, "RFI T-0131: (Item 2) Metal Stud Framing Modification at Perimeter of Wall (Aluminum Panel locations)" and "RFI T-0131: (Item 2) Metal Stud Framing Modification Surrounding Structural Steel (Slot locations)" provided by WO/Transworld. Accordingly, no change in contract and/or extension in schedule will be provided to accommodate this Contractor request. All impacts associated with proposed framing modifications, including installation of all architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) as shown on contracts documents, cost and schedule shall be borne solely by the Contractor.

Item/Issue 3) Intention of wood blocking is to provide spacing and allow fastening of aluminum panels. If there is not sufficient space to provide wood blocking. it is acceptable to fasten aluminum panels directly to tube steel members and omit wood blocking on north side of wall as shown in attached sketch. "RFI T-0131: (Item 3) Omission of Blocking Between 8" x 8" Tube Steel and Framing (North Side Only). Accordingly, prior to deletion of wood blocking Contractor shall ensure all architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) can and will be installed as shown on contract documents.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

201 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0132	BSE - Lead Based	Paint On Bent Pedestals		Closed	05/06/2011	05/16/2011	05/09/2011	Potential	у
From: Webco	r/Obayashi Joint Venture	Masashi Kojima	To: Turner Construction Compan	Daphne Faulkner	Answered By	Balfour Beatty	Infrastructu Ural	Yal	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
old bent Ped- information p the permissib the lead abat commencing	oformation attached regarding estals existing along Fremonic rovided indicates the level of ole level. This area is now concement program; this work will on Saturday 5/7/2011. Cost ill be charged to the owner.	Street. The lead is above nsidered part of I be			Voided. See th	ne attached ema	ail on 05/09/2011		
Г-0133	BSE - CDSM Test	Section & Start of Work		Closed	05/09/2011	05/19/2011	05/10/2011	Potential	у
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Sp	pecification Section 31 56 13	1.6. F. 1-2			ARUP Respor	ise:			
Please confirm that the acceptance of Zone 4 Test Section strength and permeability results is the prerequisite to begin Zone 4 & 3 shoring work, and acceptance of the Zone 1/2 Test Section results is the prerequisite to begin work Zones 1 & 2.					permeability re & 3 shoring wo	esults is the prei ork, and accepta	st Section streng requisite to beging ance of the Zone requisite to begin	Zone 4 1/2	
Γ-0134	BSE - 301 Mission	Guide Wall		Closed	05/09/2011	05/19/2011	05/12/2011	Potentiall	v 🗆
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay PMP		glas Jacobso	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal	·	·		•	·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference SI 13, and attac	neet GT-2103, Specification shed sketch	Section 31 56			This guide wal convenience.	l proposal is for			
from steel be The guide fra place beams existing 301 l away from th it will not peri frame. Is it ac concrete/reba	CDSM shoring, a guide frame ams is used, which straddles ame is used to align the auge, and expand/collapse the dri Mission building wall is approe outside of the CDSM shoring the placement of a standard succeptable to construct a tempar guide wall on the outside of to the existing 301 Mission for	the CDSM wall. rs, align and il rods. The ximately 5-6" ng wall. As such steel beam guide forary f the CDSM wall			spacing, depth discuss means that contractor Once the above	n, and diameter is and methods, will leave the Core information is	on for this propos of anchors/studs and describe co MU wall when fi returned, TJPA otiate authorization	ndition nished.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

PG&E (Mike Balmy) and Mission Street Development

(Steve Hood).

202 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
attached sketch	details of the proposed gu	iide wall.							
Г-0135			nch Along 301 Mission St. in Zone		05/10/2011	05/20/2011	05/12/2011	Potential	ly
From: Webcor Co- Co-Author: Balfour Be	eatty Infrastructure, Inc.	Nhi Tran Ural Yal	To: Turner Construction Compar	n Daphne Faulkner	Answered by	:Adamson Asso	ciates, Inc Geor	ge Metzger	
REQUEST: Reference RFI# The response to unforeseen timb "Concrete to be as possible after Per DND Constr with soil mixing r what material wil	T-0129 and Specification S BBII RFI 094 [RFI #T-012 er piles along 301 Mission placed in the remnant pile pile removal of the adjace uction, concrete backfill is methods. Please provide il be placed within the CDS lict with the mixing of the C	Section 02 41 01 29] regarding the Street, hole as rapidly ent pile." incompatible clarification on SM wall limits	SUGGESTION:		timber pile ne	or filling the voic	l left by the extra		
Γ-0136 From: Webcor Co	301 Mission Wall - onstruction LP	Manhole Vents David Hungerford	To: Turner Construction Compar	Closed n Daphne Faulkner	05/10/2011 Answered By	05/20/2011 Turner Constru	05/20/2011 action Comp Kevir	Potential	ly 🗌
on the north side PG&E preferenc design for the sle grated cover ove	5000, of Turner Construction, the of the 301 Mission Scree e. At Turner's request, ple ever as shown on C-500 or the manholes at grade, as s per the documents.	n Wall are per ase review the 0 and consider a	SUGGESTION:		Pending appro =========== 5/20/11 Respondent Services is the HIGH CIP CO WITH (N) KAIN FINISH (TWO	oval by TJPA, a conse per Kevin (co eliminate the l NCRETE SLEE DEE S.S. CIRCU LOCATIONS)"	SE from Kevin Ch CR may be issue	ed. 8'-0" HOLE ATIN mination	



Page: Date:

203 of 1053

11/05/2013 10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
					Agreement be Development, concrete slee	quired per the Ea A and Mission St minating use of 3 ing grated PG&E de elevation must	reet 3' tall		
r-0137	BSE - Unforeseen	Obstruction - Concre	ete Lip Off 301 Mission St Garage Footing	Closed	05/10/2011	05/20/2011	05/11/2011	Potentially	,
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered By	:Transbay PMF	C Roge	er Rothenburg	er
Co-Author: Balfour Beatt	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specific photo	cation Section 02 41 01	and attached					ion of concete for noved with a brea		
lip/shelf footing alor wall. The footing co	, BBII found an existing ng the low-rise 301 Mis onsists of reinforced con sion St. garage structur	sion St. garage ncrete, and is a			property line a		uld determine the lat this protrusion A limits.		
separate structure, location in multiple room for the drill rig lip/shelf protrudes of Mission St. garage	and it protrudes into the places and does not all go to construct the CDSN out at the western come and goes to the east 8 in with the 301 Mission \$	ne CDSM wall Ilow enough M wall. The er of the 301 1-feet. The			limits beyond inch lip" shoul	the property lin d be removed w	e TJPA construc e of 301 Mission vith smaller break ools back to the p	the "3- ing	
installation of the C	delay in pre-trenching a CDSM wall. It is a part o and will need to be ren . wall.	f the 301							
Please see photo a	attached.								
Please advise BBII	l as to how to proceed								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 204 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Proceed
			-				

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

Reference Response to RFI #T-0129 [BBI RFI 094] and Specification Section 02 41 01

Using the current, approved means & methods set forth in RFI Response #T-0129, there is an extremely high probability that the vibratory hammer or casing will come into contact with the existing 301 Mission wall. Despite multiple tag lines and attempts to swing away from the wall, BBII cannot guarantee the equipment will not contact the wall

BBII requests a revised methodology to extract the unforeseen timber piles or to protect the existing wall which will reduce the of damaging the wall at 301 Mission. BBII is willing to meet with the Engineer to discuss and develop this method.

SUGGESTION:

ANSWER:	Accept Suggestion:	

ARUP Response:

As discussed in the May 11, 2011 BSE meeting, Arup, in our response to RFI T-0129, is seeking the Contractor's "best endeavors" at using the casing on the three (3) timber piles furthest west. The remaining seven (7) or so piles to the east of these piles may be pulled directly without casing as long as there is replacement filling of the timber pile void as soon as it is pulled.

The Contractor, TJPA and Arup will observe the Contractor's "best endeavors" to install casing and pull each of the 3 western-most timber piles at a date and time (Friday May 13, 2011 mentioned as the earliest) chosen by the Contractor. Mechanical methods to control and hold the vibratory pile puller away from the wall, as well as any method of pre-protection of the aluminum panel clad corner, are suggested.

5/11/2011 Roger Rothenburger

As discussed in the Wednesday May 11, 2011 BSE meeting, the Engineer (Arup) is seeking (response to RFI T-0129) "best endeavors" to use the casing on the three (3) timber piles furthest west. The remaining seven (7) or so piles to the east of these piles may be pulled directly withou using casing as long as there is replacement filling of the timber pile void as soon as it is pulled.

TJPA is aware of the risk of exterior damage to the 301 Mission Parking Struture at the corner and sides, but weighs the potential for more serious structural damage in the basement around the PG&E vault to be greater risk than the exterior damage.

The work is in accordance with the force account directive CRT-010 for removal of obstructions so the risk becomes part of the cost which TJPA is willing to bear for avoiding potential greater risk of basement structural damage.

(1) At a date and time (Frday May 13, 2011 mentioned



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

205 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

installer.

					Date	Date	Date	Cost	
Number	Subject		Sta	atus	Created	Required	Answered	Impact	Proceed
					as the earliest TJPA represe: Architect (AAI install casing a timber piles. Nor other equip pile hammer a as any method An attempt to by any means (2) The materitimber pile ner be drilled by the water solution (bentonite, 1/8 material) that The CDSM shelpful. A strei	chose by the Entatives including will observe the lechanical method ment to control way from the way from the alumis also advisable CDSM shoring with some light will able should oring contractor agth of 50psi way from the some should be control to the should be control to the should be control to the should be shou	SSE Subcontractors the Engineer (A e BBII "best effor the 3 wesrtn mosods with the excapt and hold the vibrall are suggested work crews sugninum panel clad	or, BBII, trup), ts" to to tvators tory as well ggest. corner tracted h can and- ested y BBII. d be	, rocccu
							ime for the trial on the desired CDSM	•	
T-0138.1			Trench Along 301 Mission St. in Zone 4 - Co Clo	osed	05/20/2011	05/30/2011	05/23/2011	Potential	ly
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan Daphne	Faulkner	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author: Balfour Beat	ty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	se to RFI#T-0129, RFI# on 02 41 01 and attach				ARUP Respor		Contractor of all	vorif.	
	BII RFI 094 [RFI#T-012						Contractor shall he CDSM shoring		

After clarification on the issue in RFI Response #T-0138,

"Concrete to be placed in the remnant pile hole as rapidly as possible after pile removal of the adjacent pile." Concrete is not compatible with CDSM mixing.

unforeseen timber piles along 301 Mission Street,



Specifically, the first set of submittals would include Structural drawings and calculations for the bridge

cap beams, girders, abutments, and associated

structure from the pavement and decking down - piers,

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

which are deferred. This includes loading attributable to but not limited to the following: operable gates;

vehicle barriers; required thickness of pavement for all

purposes, added thickness of paving for pedestrian

areas, curbs and provisions for slope inducement for

206 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Mix FOA100CX u Engineer of Reco and observed the	nd furnished Central Co under the direction of the ord's field engineer revi e installation of this mix	he Engineer. The iewed, approved in the pile voids						
ARUP Field Engi	n Street. The mix was neer prior to placemer at this mix design mee rements.	nt in the field,						
Attachments: Mirecord.	x as requested is being	g submitted for						
T-0139	BSE - Unforese	en Timber Pile in Pre Tı	ench Along 301 Mission St. in Zone 4 - CR 1 Closed	05/10/201	1 05/20/2011	05/11/2011	Potential	lly
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkn	ner Answere d	I By: Transbay PMF	PC Rog	er Rothenbui	rger
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:	ANSWER	: Accept Sug	gestion:		
Reference Responsible Specification Section Se	onse to RFI #T-0129 [E ction 02 41 01	BBI RFI 094] and		11, 2011 t	sed in the BSE med he removal of the u pring wall pre-trenc	ınforseen piles in	the	
	ne removal of the unfo n Street will be reimbu				CRT-010.			
T-0140	BSE - Bridges S	Submittals	Closed	05/12/201	1 05/22/2011	05/27/2011	Potential	lly
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkn	ner Answered	By: URS Corporat	ion Davi	id Fyfe	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:	ANSWER	Accept Sug	gestion:		
·	fication Section 01 53 eaking up the bridge s				val to split the temporal to split the tempo			
submittal fundam for the bridge, inc	ental structural drawin dependent of accessor essary for a complete	igs and calculations ries and specialized		1. Items	which are provided esigned for all loadi			



Reference Sheets GT-1301, GT-1302, GT-2201, & 13/GT-

5101 and Specification Section 31 56 13

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

207 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

JOINT VENT	TURE		30100 - 7	Transbay Transi	t Center	Project	•		
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
railing/barriers Follow on coccoordination of mechanisms, support detail BBII believes complete brid parties. Isolat submittals will main compon working out the	ordination submittals will incomponents, gates, hardwarences, Muni OCS compons, surface grading and drain that it will take some time to ge package that satisfies all ing the core bridge structure I ensure that detailing and fents of the bridge will not be	lude traffic re, locking lents, utility hage. o finalize a I interested e into it's own abrication of the			poles/standa items specific requirements team by revie 2. Items defe in full conform 3. Any items	rds; OCS poles/cally required to brought to the abundance with specific products and the second poles. The second poles is sought shall to be second poles is sought shall to be second poles.	attention of the concity staff. and submission slifications requirer	her ontractor hall be ments.	
-0141	BSE - Inclinomete	ers IW-5 to IW-8 Insta	III Locations	Closed	05/12/2011	05/22/2011	05/16/2011	Potential	ly
From: Webcor	Construction LP	Nhi Tran	To: Turner Constructio	n Compan Daphne Faulkner	Answered B	y: Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
	neets GT-1301, GT-1302, G	T-2201 & 13/GT-	SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:		
Please clarify	ecification Section 31 56 13 if locations IW-5 to IW-8 ex -1301 and GT-1302.	xist. They are not			Inclinometers	s IW-5 to IW-8 de	o not exist.		
-0142	BSE - Instrument			Closed	05/13/2011	05/23/2011	05/16/2011	Potential	
	Construction LP	Nhi Tran	To: Turner Constructio	n Compan Daphne Faulkner	Answered B	y: Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

ARUP Response:

Instruments I-104 to I-107 require detail 13/GT-5101.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 208 of 1053 11/05/2013

Time:
Job:

mixing for the CDSM wall, will need to be removed.

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
	GT-2201, please confirm that Ir detail 13/GT-5101.	nstrument I-104							
-0143	BSE - Confirmatio	on of Utility Decommiss	ioning and As-Builts for Fremont S	treet Closed	05/16/2011	05/26/2011	05/20/2011	Potential	ly 🗌
From: Webo	cor Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Turner Constru	ction Comr Kevir	n Chiu	
Co-Author: Balfo	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:	<u>:</u>		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Sheet D-2230 and attached sk	etch			Removal of ex	xisting duct bank	k is in RUP scope k activities with R		
head, BBII bank. The c pad (see at poured 5-20 duct bank v drilling equi	I potholing work on the Fremor exposed the existing live PG&I duct bank is located under BBI tached sketch), the drill pad is 6-2011/5-27-2011. BBII has co will not be able to support the lopment. The concrete duct ban ior to drill pad installation. Plea	E concrete duct I Buttress drill scheduled to be ncerns that the pad for the k will need to be			decommission bank is not co	ned is 6/24/11. It	PG&E to have du f RUP's removal drill pad installations.	of duck	
-0144	BSE - Unknown C	oncrete Structure along	g 199 Fremont St in Zone 4	Closed	05/18/2011	05/28/2011	05/24/2011	Potential	ly 🗌
From: Webo	cor Construction LP	Masashi Kojima	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Turner Constru	ıction Comr Kevir	n Chiu	
Co-Author: Balfo	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	Specification Section 31 56 13						structions shall b		
attached ph	rered the unforeseen concrete on the concrete mass is unlike the ROF CROM well				•	1 and Demolition Spec 01-74-00.	n Debris shall be	handled	
	ict with the BSE CDSM wall. te mass is approx 2ft wide and	extends 8ft							
	ntire between GL J 30-33.5 ad reet building. During the excav				5/20/2011 - G	eorge Metzger			
was water e concrete st	egress into the excavation from ructure see photos attached. sts immediate direction from th	underneath the			ARUP Respon	nse:			
issue.	ste miniodiate direction from th	O TOLA OIL UIIS			location show	n, then the mate	be installed in the erial which is in the I interfere with the	ie way,	



From: Webcor Construction LP

Co-Author: Balfour Beatty Infrastructure, Inc.

Nhi Tran

Ural Yal

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

209 of 1053

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

Number Subje	ect		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
						le direction to the of the obstacles		
T-0145 BSE -	Existing Concrete Footing Gridl	ine J between Gridline 26.5-30 along 1	81 Fre Closed	05/18/2011	05/28/2011	05/20/2011	Potential	ily 📗
From: Webcor Construction I	P Masashi Kojima	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Beatty Infrastru	ucture, Inc. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Sec	tion 02 41 00			ARUP Respo	nse:			
the unforeseen structure in F separate concrete footing be footing that extends below the building. The top of this footing below the original grade, and wide, and 3 feet deep. BBII is concerned with the reextensive rubble that was expucket of dirt was removed a amount of water gushed out, Fremont St. building, and the stone rubble that was exposithe footing was found, and the	llow that. It is believed to be a e 177/181 Fremont St. ng is approximately 8 feet It is approximately 3 feet removal of this footing and the posed below it. When a slong the footing, a large from below the 177/181 ough the large amount of ed. At this point the bottom of the soil was quickly replaced. SM wall extents, and will have agile nature, and the age of ding; please clearly describe			these are BB numbers in C If the CDSM solocation show including any mixing for the Based on field recent email acconcrete (unradjacent to 18 requests TJP regarding any should it be necessary and the should it be necessary and the should it should be necessary and the should it should be necessary and the should it should be necessary and the should be necessary a	shoring wall is to onstructware and shoring wall is to on, then the mate rubble which wi CDSM wall, will dobservations or correspondence einforced) bases at Fremont has at to provide direct additional dem ecessary.	d 74.1. We under orresponding RF to 103 and 103.1. To be installed in the trial which is in the lil interfere with the lined to be remonance arrived by the limited been removed. A total to the Control	le way, e soil oved. y, and he ately rrup ractor avation	

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 210 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

ie: ·

30100 - Transbay Transit Center Project

umber <u>Subject</u>		<u>Status</u>	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
REQUEST: Reference RFI#T-0103 and attached photo During BBII demolition of the unknown concrete structure along South side of Zone 4 adjacent 177/181 Fremont building (Refer to [RFI#T-0103] BBII RFI# 74), BBII discovered timber piles beneath the unknown concrete structure - see photos attached. The location timber piles are in conflict with the alignm of the CDSM wall. Please advise on the method of removal of the obstruction. Note: BBII has concerns regarding the stability of the adjacent 177/181 Fremont Building (old brick structure)	ent		more than 3 at the remnant we that can be dri DND. A suitab situation adjac portion of 301 2. If more timb the pre-trench continue along for a distance the building. 3. 181 Fremor gauges, and A gauges before along this leng owner grants to train box excars. 4. Inclinomete installation of train box excars. 5. The Contract retain the matter from sloughing. Adamson Assi	that the timber at time, and that bid is infilled imilled by the shorle material was tent to the parking, then the project of the bid bid in the bid in the project of the parking the northern floor 20 ft east of the bid bid in the project of the	r piles be exposed at they are remove mediately with a ning wall equipmer proposed for the ng garage/low rise ealed along this pocess in 2 above ank of 181 Fremothe northeast corruipped with crack ke readings of the twal of the timber ping provided the land the subsequistalled in due court proportiate measurement and keep ation.	ed and naterial nt of similar element of width object of it control of i	

Co-Author:

From: Webcor Construction LP

T-0146.1

BSE - Additional Timber Piles Adjacent 177/181 Fremont Building South Zone 4 Clo

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

05/20/2011

05/30/2011

05/20/2011

Potentially

Answered By: Transbay PMPC

Roger Rothenburger



7. BBII will backfill the void with low strength material

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 211 of 1053 11/05/2013

Date: Time: Job:

Items 10 and 11 will be reviewed by others.

10:53 AM 30100

Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST: Reference RFI#T-0146		SUGGESTION:		ANSWER: The Sheet pile	Accept Sug	sheet piles either		
Please provide the TJPA's specific written dire procedure on how to remove the unforeseen porth face of 181 Fremont Street according to response for RFI T-0146.	oiles along			removing the remove) describing this morning (the Contract S	piles (3ft of exporibed to TJPA a May 20, 2011) of Specifications So	for 20 feet or so, osed pile required nd its representation site is complian ection 02 41 19 (F 3 (CDSM Shoring	tives nt with Pile	
The contractor cannot proceed on this extra a work without the specific direction and proced in writing by the TJPA.					cution - Pre-tren		j vvanj	
	•	77/181 Fremont Building South Zone 4	Closed	05/23/2011	06/02/2011	05/24/2011	Potential	ly
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan D	aphne Faulkner	Answered By	Turner Constru	uction Comr Kevir	า Chiu	
Co-Author: Balfour Beatty Infrastructure, Inc.	Jral Yal							
REQUEST: Reference RFI#T-0146.1 Based on the joint meeting between W/O, BB TJPA on 5/23/2011, BBII would like to confirm following:		SUGGESTION:		Allowable wor		authorized to proestablished after		
 181 Fremont Street Pile Extraction: 1. BBII will install additional survey control to e back of the shoring wall limit. 2. BBII will contact DND Construction to confinallowable distance between an existing pile ar of the shoring wall. 3. BBII will expose, in the presence of the eng 	rm the nd the back				eorge Metzger nse: e described is co l agreed to at ye	onsistent with tha esterday's meetin		
 at one time. 4. BBII and the Engineer will jointly determine that can be left in place with reasonable assur they will not impact the shoring wall. 5. BBII will install flat sheet piles between the the wood piles to prevent caving of soils unde building. 	ance that building and			the piles that of assurance that Arup will be or	can be left in pla t they will not in n site to assist the	PA will jointly deta ace with reasonath apact the shoring he TJPA. onsider placing the	ole wall.	
 BBII will extract the wood piles with vibrator with the same stroking procedure without stee BBII will perform dewatering enough to be able the hammer to the pile. 	l casing.			sheet prior to	excavating to re	etain the material solutions in sloughing into the	under	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 212 of 1053 11/05/2013

Time:

Data

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee
	-	· ·		•			

Central Concrete Mix FOA100CX (RFI #T-0138.1).

- 8. BBII will backfill the piles.
- 9. BBII will remove the sheet piles and start over with Step 3
- 10. All of this work will be tracked and compensated on force account under CR T-010.
- 11. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.

T-0146.3	BSE - Additional T	imber Piles Adjacent 1	77/181 Fremont Building South Zone 4 Closed
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Compan Daphne Faulkner
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal	
REQUEST:			SUGGESTION:
Reference RI	FI#T-0146.2		
	e RFI T-0146.2 did not answe se respond for Item 10 and Ite		
 RFI#T-0146.2	 2 Question:		

ANSWER: Accept Suggestion:

Answered By: Transbay PMPC

06/02/2011

05/25/2011

Potentially

Roger Rothenburger

05/23/2011

The row of timber piles closest to 199 Fremont are only 6"-9" clear of the 36-inch theortical CDSM wall thickness. TJPA in order to avoid the potential risk of these timber piles some of whom are canted and not straight pulled if anyy part of the pile is within 12" of the theoretical CDSM wall line. Since this work has previously been classified as an "unknown obstruction" paid on force account; if there is damage to the 199 Masonry wall that the cost of repair is considered part of the force account work. BBII is to exert efforts to avoid damage and use the method of pulling the piles that gives least amount of risk for damage to the masonry wall. This response is only for 199 Fremont. Discussions must be held when starting pile removal along 181 Fremont.

181 Fremont Street Pile Extraction:

Reference RFI#T-0146.1

following:

1. BBII will install additional survey control to establish the back of the shoring wall limit.

Based on the joint meeting between W/O, BBII and the

TJPA on 5/23/2011, BBII would like to confirm the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

213 of 1053 11/05/2013

Time:

10:53 AM

30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

- 2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.
- 3. BBII will expose, in the presence of the engineer, 3 piles at one time.
- 4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.
- 5. BBII will install flat sheet piles between the building and the wood piles to prevent caving of soils under the building.
- 6. BBII will extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.
- 7. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).
- 8. BBII will backfill the piles.
- 9. BBII will remove the sheet piles and start over with Step 3.
- 10. All of this work will be tracked and compensated on force account under CR T-010.
- 11. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.

-0146.4	BSE - Additional	Timber Piles Adjacent	1///181 Fremont	Building South Zone 4	Closed

From: Webcor Construction LP Nhi Tran

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

Per Turner's request on 5/27/2011 this RFI is being asked, to modify the 177/181 Fremont pile extraction procedure

SUGGESTION:

To: Turner Construction Compan Daphne Faulkner

05/27/2011

06/06/2011

05/31/2011

Potentially

Answered By: Turner Construction Comr Kevin Chiu

ANSWER: **Accept Suggestion:**

Item 8 - BBI shall make every attempt to ensure voids are completely filled but is not required to test/verify



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

214 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject	Status	Created	Date Required	Answered	Cost Impact	Proceed

as desired by ARUP:

Based on the revised proposal for unforeseen pile extraction work along 181 Fremont St. from ARUP, BBII (W/O) can agree with revisions as the follows:

- Item 6 should read, "BBII will extract the piles with vibratory hammer only as necessary. BBII will use as little vibration as possible to remove the piles from the ground. BBII will perform dewatering enough to be able to connect the hammer to the pile."
- Item 8 should read, "BBII will back fill the pile voids using a tremie pipe of minimum length 20ft attached to the concrete bucket. The tremie shall be inserted as far into the pile hole as possible prior to pouring the concrete, and the concrete shall be placed using normal tremie techniques. BBII will make efforts to pour the material into the void as possible, but BBII is not responsible to eliminate void completely."

Other items shall remain the same.

Please also clarify that the response from RFI#T-0146.3 stating "Since this work has previously been classified as an "unknown obstruction" paid on force account; if there is damage to the 199 Masonry wall that the cost of repair is considered part of the force account work. BBII is to exert efforts to avoid damage and use the method of pulling the piles that gives least amount of risk for damage to the masonry wall." is this instead, meant to address the property and work related to 177/181 Fremont? If not, please address the question regarding 177/181 address.

that the voids are completely filled.

Last paragraph of the RFI - Correct. RFI response from T-0146.3 should read 177/181 Fremont in lieu of 199 Fremont.

5/28/2011 - George Metzger

ARUP Response:

Based on additional observations made 03/27/2011of the pile pulling process adjacent to 199 Fremont, Arup has the following comments and recommends revisions to the procedure as noted below:

Item 6 is acceptable.

Item 8 should be modified to read. "BBII will backfill the voids using gravity fall method immediately after pile is pulled. BBII will accomplish this by having the concrete hopper filled and setup to pour prior to the final pull of the each individual pile, with the hopper's chute aimed at the pile. As soon as the pile is lifted from the void, the concrete is released from the hopper."

The last sentence in Item 8 in the RFI "BBII will make efforts to pour the materials into the void as possible but BBII is not responsible to eliminate void completely," shall be reviewed by the TJPA.

The last paragraph of the RFI shall be reviewed by others.

The Contractor shall not commence pile pulling adjacent to 177/181 Fremont without first receiving direction to do so from TJPA.



hammer to the pile.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 215 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	or Construction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered E	3y: URS Corporat	ion David	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	attached Sketch				2nd layer of contract doc		not as specified in	า	
manufacturei this wall. In ru (attached) an installed to fu be applied to the manufact Platinum thin	w the attached sketch she's recommendations for eference to the approved a additional layer of ceme ar out the substrate so the their recommended thick turer recommends to use uset material. The stone to the aluminum panel about this RFI.	the tile installation at submittal detail ent board will be at the materials can kness. In addition, Laticrete 254 iles finished surface			cement boar single compountshall be atta- steel flat hea screws shall board for full	d in order to ensosite layer. 2nd lached to stude at screws to metal extend through I engagement to	etween the layers aver the 2 layers aver of cement be 6" o.c. with stainl all stud framing. Aporth layers of cemframing. There ste two layers of cer	ct as a pard ess All nent nall be	
					Use of Latica acceptable.	ete 254 Platinum	thinset material	is	
	BSE - Addition or Construction LP r Beatty Infrastructure, In-	Nhi Tran	99 Fremont Building Zone 4 To: Turner Construction Comp	Closed an Daphne Faulkner	05/23/2011 Answered E	06/02/2011 3y: Turner Constr	05/24/2011 uction Comr Kevir	Potentia n Chiu	lly
REQUEST:	•		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference R	FI#T-0146.2		oocozonon.		Per Brian Dy	kes, this work is	authorized to proded and work may	ceed.	
	e joint meeting between V 3/2011, BBII would like to				commence.				
BBII will in back of the s BBII will coallowable dis of the shoring BBII will ex	xcavate, in the presence	to confirm the g pile and the back			5/24/2011 - (ARUP Respondence of the procedule discussed and the following	re described is cond agreed to at y exceptions:	onsistent with tha esterday's meetin	g with	
piles at one time. 4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall. 5. BBII will extract the piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the					the piles that assurance the Arup will be	t can be left in pla		ole	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

216 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Cost Created Required Answered Number Subject Status Impact Proceed

- 6. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).
- 7. BBII will backfill the piles and start over with Step 3.
- 8. All of this work will be tracked and compensated on force account under CR T-010.
- 9. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.

Γ-0148.1	DSE Additional 1	Timbar Bilas Adiasa	nt 199 Fremont Building Zone 4	Closed	05/23/2011	06/02/2011	06/07/2011	Potentially 「	
1-0146.1	BSE - Additional i	illiber Files Aujace	nt 199 Fremont building Zone 4	Ciosea	03/23/2011	00/02/2011	00/07/2011	Potentially	
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Turner Constru	ction Comp Jack	Adams	
Co-Author: Balfour B	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference RFI#T-0148

The response RFI T-0148 did not answer for Item 8 and 9. Please respond for Item 8 and Item 9. ______

RFI#T-0148 Questioin: Reference RFI#T-0146.2

Based on the joint meeting between W/O, BBII and the TJPA on 5/23/2011. BBII would like to confirm the following:

199 Fremont Street Pile Extraction:

- 1. BBII will install additional survey control to establish the back of the shoring wall limit.
- 2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.

Confirmed-In regards to item #8 and 9 in the response to RFI T-0148: All of this work will be tracked on force account under CR T-010. If BBII takes every precaution to avoid damaging the adjacent wall, BBII will be compensated for repairs under CR T-010 as well.

There is no Noise moratorium for 199 Fremont. This includes demolition, pile pulling, excavation, backfill, equipment set-up etc. is allowed at all times adjacent to 199.

Good neighbor notification policy is in effect - WO/BBIi will notify Singer Assoc. whenever work will encroach on 199 Fremont property or when work activity will disrupt the tenants of 199 Fremont - both inside lot and on sidewalk/street.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 217 of 1053 11/05/2013 10:53 AM

30100

Date: Time: Job:

JOD.

e: :

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

- 3. BBII will excavate, in the presence of the engineer, 8 piles at one time. $\,$
- 4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.
- 5. BBII will extract the piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.
- 6. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).
- 7. BBII will backfill the piles and start over with Step 3.
- 8. All of this work will be tracked and compensated on force account under CR T-010.
- 9. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.

Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

218 of 1053

Time:

10:53 AM Job: 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Pro	cee
-0149	BSE - Revised Co	ntract Drawing GT-2201		Closed	05/24/2011	06/03/2011	05/26/2011	Potentially	\neg
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	_
Co-Author: Balfour Beatty	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet G sketch SKGT-0002	iT-2201, RFI#T-0088.2	, and attached			PMPC, Turne	5/26/2011 meet r and AAI, and a act drawing of G	s directed by To	IPA a	
BBII agreed with the TJPA's proposal in the response of RFI T-0088.2. Therefore, please issue the revised contract drawing of GT-2201. Also, please note that attached Sketch SKGT-0002 includes an error in the CDSM wall alignment at gridline J/34-35.					at this time. If revised to cor	However, the attractive show the control of the con	ached sketch ha CDSM shoring v	s been	
-0150	BSE - CDSM Top	of Pile Elevations At Zone	4	Closed	05/25/2011	06/04/2011	05/31/2011	Potentially [
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatty	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet G	T-5101 and attached s	sketch			ARUP Respon	nse:			
Please reference table 16/GT-5101. To facilitate construction on the streets and the Buttress area, at no additional cost to the owner BBII plans to install the CDSM piles on Fremont St., Beale St., and Zone 4 per the table below:					provided the e	top of pile eleva elevation at the b shown in 16/GT	oottom of the pile		
` ,	escription; (b) Per 16) Proposed Top of Pile	•							
EL 15.0; (c) Flush to 2 - (a) Piles in the E Mission; (b) EL 14.0 of Pad 3 - (a) Along 301 M Work Pad and Beal w/c is 1' above grad	Buttress Work Pad area 0; (c) Approx. EL 14.0 dission, piles between the St.; (b) EL 13.0; (c) and the street of t	a along 301 w/c flush to Top he Buttress Approx. EL 15.0							
	he 181 Fremont side o L 15.0 w/c is 1' above (



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

219 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

lumber Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0151 BSE - Buttress Footprint Increase Due to Oversized Casing	Closed	05/26/2011	06/05/2011	05/31/2011	Potential	ly 🗌
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan D	aphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geor	rge Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc.						
REQUEST: SUGGESTION: Reference attached sketch		ANSWER: ARUP Respon	Accept Sugg	gestion:		
Becho will be utilizing a 2200mm OD temporary casing for the Buttress Pile Installation. Becho requests that the spacing between tangent piles remain at 4" minimum and the secant piles overlap remain 1'-6". This will approximately increase the Buttress footprint by approximately 4'-4" to the east and 1'-9" to the south. Please confirm this is acceptable.		buttress shifts Contractor shiproposed, car location, giver low-rise. Cont piles within the	north-south. In all verify that row be installed in the corner proj ractor to verify the larger footprint	o portion of the oparticular, the vR, once shifted the same northscection of the 301 nat the existing tichave been remonlarged as necessions.	east as outh Mission mber oved	
-0152 BSE - Additional Timber Piles Adjacent 199 Fremont Building	Closed	05/26/2011	06/05/2011	06/07/2011	Potential	ly 🗌
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan D	aphne Faulkner	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.						
REQUEST: SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In regards to item #4 in the response to RFI T-0148; field investigations of the curvature in first few piles removed along 199 Freemont, BBII feels that at a minimum it is necessary to remove all piles that's top is within 12" of the "neat line" 36" wide CDSM wall. Please confirm that removal of these piles to the limits described above, in addition to any associated damage to adjacent structures caused by the extraction will be reimbursed under CR T-010.		RFI T-0148; A account under precaution to	II of this work ware control of this work was a control of the con	#4 in the respons Ill be tracked on BII takes every the adjacent wa 's under CR T-0'	force II, BBII	
Item 4: 4. BBII and TJPA will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.						
-0153 BSE - Additional Timber Piles Adjacent 177/181 Fremont Building	Closed	05/26/2011	06/05/2011	06/07/2011	Potential	ly
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan D Co-Author: Balfour Beatty Infrastructure. Inc. Ural Yal	apnne ⊦aulkner	Answerea By	: i urner Constru	ction Comr Jack	Adams	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

220 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

Reference Sheet GT-2103 and RFI#T-0146.2

In regards to item #4 in the response to RFI T-0146.2; field investigations of the curvature in first few piles removed along 199 Fremont, BBII feels that at a minimum it is necessary to remove all piles that's top is within 12" of the "neat line" 36" wide CDSM wall.

Please confirm that removal of these piles to the limits described above, in addition to any associated damage to adjacent structures caused by the extraction will be reimbursed under CR T-010.

Also, please confirm allowable work hours, since 199 extractions have already begun.

Item 4:

REQUEST:

4. BBII and TJPA will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall. Confirmed-In regards to item #4 in the response to RFI T-0146.2; All of this work will be tracked on force account under CR T-010. If BBII takes every precaution to avoid damaging the adjacent wall, BBII will be compensated for repairs under CR T-010 as well.

Noise moratorium for 177/181 Fremont is Monday-Friday from 11 am to 2 PM. This includes demolition and pile pulling adjacent to 177/181 only - Excavation, backfill and equipment set-up is allowed at all times adjacent to 177/181.

T-0154 BSE - Becho Tremie Placement Process Closed 05/26/2011 05/26/2011 05/31/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Metzger

SUGGESTION:

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

Reference Specification Section 31 63 29, 3.5.G.4.K

SS31.63.29.3.5.G.4.k states "The tremie discharge end shall be immersed at least 25' in concrete at all times after starting the flow of concrete."

Becho requests concrete tremie embedment to be reduced to 10ft minimum for all piles and 5ft minimum tremie embedment at the secondary pile transition zones between structural and CLSM mix pushing the minimum contaminated structural/CLSM concrete zone at sub grade to +5 foot above sub grade elevation.

Please confirm this is acceptable.

ANSWER: Accept Suggestion:

ARUP Response:

This is acceptable. Note that the procedure described pertains to both the primary and the secondary piles, not just the secondary piles as described in the RFI.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

221 of 1053

Time:

10:53 AM Job: 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Procee
-0155	BSE - Primary	Concrete Mix Tolerance		Closed	05/31/2011	06/10/2011	06/03/2011	Potentially
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Comp.	an Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geo	rge Metzger
Co-Author: Balfour Bea	atty Infrastructure, Inc	c. Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Specif	fication Section 03 30	01, 1.5.F			ARUP Respo	nse:	_	
BBII, Becho, Central Concrete, W/O, ARUP and Adamson Associates met on Tuesday 5/24/2011 to discuss the results of Buttress Primary Concrete Mix Trial Batches. During this meeting, Central Concrete expressed concern about variability in the Buttress Primary Concrete mix due to slight variations in material and batching. The Buttress Primary Concrete Mix is a very high performance mix and even small variations in the mix constituents can result in significant changes in strength. Please advise how much of a working tolerance is acceptable for the primary buttress concrete mix.			n Tuesday 5/24/2011 to discuss the s Primary Concrete Mix Trial Batches. ng, Central Concrete expressed concern the Buttress Primary Concrete mix due s in material and batching. The Buttress Mix is a very high performance mix and ions in the mix constituents can result in es in strength. Please advise how much ance is acceptable for the primary				th has been place and satisfactory emet: If any three consisting of at least ee 4 by 8 in. cylin of concrete) equivalent (average of two (ave	if both of ecutive two 6 by nders als or
Dutiless concrete	· IIIA.					or at least three 4	4 by 8 in. cylinde	
-0156	BSE - Primary	Concrete Mix 90-Day Com	pressive Strength	Closed	05/31/2011	06/10/2011	06/03/2011	Potentially
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger
Co-Author: Balfour Bea	atty Infrastructure, Inc	c. Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Specif	fication Section 03 30	01, 1.5.F			ARUP Respo	nse:		
"The mixes shall compressive street response to Question gain can be reduct reached after 28 of Please confirm the	Section 03 30 01 - 1. be proportioned to dength of 2,000 psi at 2 stion TG0300-0262, "ced so that the design days but less than 91 hat the Buttress Prima 0 days to achieve 2,0	evelop a 8 days." Per the The rate of strength In strength is days". The rate of strength It is the strength is It is the strength is the strength is It is the strength in the strength in the strength in the strength is the strength in t			design streng 91 days, prov demonstrating before 90 day tests of the m days. Each te cylinders and	th is reached affided the Contracting that the mix with the mix with the mix with the mix with the the the the the the the the the t	be reduced so the ter 28 days but exter 28 days but exter submits test ill reach 2,000 ps., compressive so at 7, 14, 28, 56 of a minimum the cores taken froance with submit	ss than data ii at or trength and 90 ree cast om trial
					mixes shall be strength of 2,		•	
							approval prior to	their



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

222 of 1053

Time:

10:53 AM Job: 30100

	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Procee
T-0156.1	BSE - 120 Day Acc	ceptability of Buttres	s Primary Shaft Concrete	Closed	04/16/2012	04/26/2012	04/19/2012	Potentially
From: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal	To: Turner Construction Compan	Gary Krutsch	Answered By	y:Adamson Asso	ociates, Inc Geo	orge Metzger
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference: 4/12/12	Central Letter				ARUP Respo	nse:		
Mix test specimens strength of 2,000 ps previous RFIs #T-0′ cylinders are to be t this cooler climate, i overall strength at the specimens are susp is confident that at 1 will reach the requirence accepted for all test	n the event that the Bu do not meet the 2,000 si at 90 days (reference 157.2, and #T-0156), a taken and tested at 12 initial temperature may he required time. Altho- bect of low strengths, 0 120 days, the specime red strength. If this crit is specimens at 120 day concerns of suspect lo	o psi specified e Response to additional o days. During y be impeding ough only a few Central Concrete ons in question teria can be ys, this can			will evaluate of will require the sampling so that, if the than 2,000 ps 120 days.	table for shaft Non a case by case TJPA to take a frequency requir first cylinder tessi, there can be the tag : Per Turner, be performed by.	e basis. However an additional cylined in the specfited at 90 days is three samples te	ver, this inder at cations is less isted at still with the still w
T-0157	BSE - Primary Co	ncrete Mix 500 PSI A	t 7-Days	Closed	05/31/2011	06/10/2011	06/03/2011	Potentially
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geo	orge Metzger
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal						
REQUEST: Reference Specifica	ation Section 03 30 01	, 2.2.E	SUGGESTION:		ANSWER: ARUP Respo	Accept Sug	gestion:	
Associates met on results of Buttress F One of the concerns to provide a mix tha 500 psi at 7 days ar Primary Concrete M even small variation significant changes	al Concrete, W/O, ARL Tuesday 5/24/2011 to Primary Concrete Mix so is for the Buttress Prim it is able to consistently and 2,000 psi at 28 days fix is a very high performs in the mix constituer in strength. Please and a working tolerance for	discuss the Trial Batches. ary Concrete is y achieve both s. The Buttress rmance mix and nts can result in lvise if it			concrete (Typ	mpressive strenç ne "A" concrete ii nsi +/- 200 psi.		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 223 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor/Oba	ayashi Joint Venture	Kirk Nielsen	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Webcor Const	ruction LP David	d Fields	
REQUEST: To date there are scheduled PSI rec which is resulting issues. For clarific schedule is correct. 300 psi at 7 day 2. 2000 psi based	multiple RFI responses juirements for the prima in confusion and unnect ation sake please confict: is pursuant to RFI response on an arithmetic average rsuant to RFI response	ary shaft mix essary Vela rm the following onse T-0157. ge of tests on or	SUGGESTION:		ANSWER: RFI is void an	Accept Sug d answered in F			
0157.2		lle for Buttress Shaft	Primary Mix	Closed	01/18/2012	01/28/2012	01/18/2012	Potentia	lly
	ayashi Joint Venture	Kirk Nielsen	To: Turner Construction	on Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
scheduled PSI rec which is resulting i issues. For clarific schedule is correc 1. 300 psi at 7 day 2. 2000 psi based	multiple RFI responses juirements for the prima in confusion and unnec- action sake please confi- it: is pursuant to RFI respo- on an arithmetic averacy rsuant to RFI response	ary shaft mix essary Vela rm the following onse T-0157. ge of tests on or	SUGGESTION:		follows: 7 day report: by Vela 28 day report: below 300 psi below 2,000 p 0156 guideline same report wissue stays or report was green above 3,000 p above 3,000 p	: Failure. Keep finisit below specifies; monitor; if the vas less than 30 pen; if the 7 day eater than 300 pensi: Failure. Add posi: Failure. Add	e tracked in Vela ailure. Add an iss the issue in Vela ication but within e 7 day break for 0 psi, then the Vebreak for the sar si, no Vela issue an issue in Vela an issue in Vela eraging, see resp	ue in open RFI T- the ela ne	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 224 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Γ-0157.3	BSE - PSI Schedu	le for Buttress Shaft Pri	mary Mix	Closed	01/19/2012	01/29/2012	01/23/2012	Potentiall	y 🗌
From: Webcor/Obaya	ashi Joint Venture	Kirk Nielsen	To: Turner Construction Co	mpan Gary Krutsch	Answered By	/ :Arup	Kev	n Clinch	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
scheduled PSI requi which is resulting in confus clarification sake ple correct: 1. 300 psi at 7 days 2. 2000 psi based or	ultiple RFI responses irements for the prima sion and unnecessary ease confirm the follow pursuant to RFI response an arithmetic averaguant to RFI response	very shaft mix Vela issues. For ving schedule is onse T-0157. The onse of tests on or			The cylinder test results will be tracked in follows: Below 300 psi at 7 days: fail Above 300 psi at 7 days: pass Below 2,000 psi at 90 days: fail Above 2,000 psi at 90 days: pass Above 3000 @ 28 days does not conform specifications, but this will not be tracked Regarding the question of averaging, see RFI 155			n the ela.	
0156.									
Г-0158		- Architect of Record		Closed	06/01/2011	06/11/2011	06/06/2011	Potentiall	ly
From: Webcor Const	truction LP	David Hungerford	To: URS Corporation	David Fyfe	Answered By	:Transbay PMP	C Alfre	ed Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	the registered Archit rim Screen Wall Proje					chitect/Engineer ed to the drawing		ignature	
Г-0159	BSE - Unforeseen	Obstruction - Timber Pi	les Within Pre-Trench Limits Z	one 3 Closed	06/02/2011	06/12/2011	06/06/2011	Potentiall	y
From: Webcor Const	truction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Nhi	Tran	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet D- attached sketch and	2212, Specification Solphoto	ection 02 41 01,			06/06/2011 -	Daphne Faulkne	r		
Durina Pre-trench. B	BBII found additional u	ınforeseen			Response pro	ovided by S. Rule	e of Turner.		
timber piles within th between gridlines 24 Per Contract Drawin	ne pre-trench limits alo 4 & 25. g D-2212 (attached),	ong gridline A, there should only			half between	o note on Drawii grids 23~26 which are (N)CDSM wa	ch states,		
be a single row of timber piles in conflict with the CDSM wall, although when the area was exposed there are three rows within the CDSM wall limits (see attached photo). These will have to be removed and will be considered extra work					and/or piles p	aps and piles, re rior to constructi M perimeter sho	on of (N) Transit	Center	



The Response to RFI#T-0159, appears to have misunderstood the question. Therefore BBII is providing

additional information.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Per note 7 on D-2212, it was made clear at the time of bid that the actual existing conditions may differ from

225 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

JOINT VENTUR	RE		30100 - Tran	sbay Transi	it Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Please advise.					This includes	all piles within t	ne CDSM wall foo	otprint.	
					00 (General		covered in Section le 3.05.A.2 and 3. ditions).		
					Article 3.05.0	C states,			
					C. Differing S	Site Conditions s	nall not include:		
						s indicated in or tract Documents	reasonably interp or Reference	reted	
					2. All that of	ould be seen on	Site		
				characteristic		rially similar or those indicated cuments or Refere			
					and the remo the removal o wall is install	oval of timber pile of timber piles be ed TJPA believe d will provid payn	sses both pre-tree es and Bid Item # efore the CDSM s s that this work w nent for it under B	6 is for horing as	
						no additional pa or the CDSM wa	yment for the rem II.	noval of	
Γ-0159.1 From: Webcor Cor		Nhi Tran	er Piles Within Pre-Trench Limits Zone		06/08/2011 Answored B	06/18/2011	06/27/2011	Potential	ну
Co-Author: Balfour Bea		Ural Yal	To: Turner Construction Compa	ан рарппе гашкпег	Alloweled D	y. rumer Constr	uction Comp Kevir	i Ciliu	
REQUEST:	tty minastructure, me.	Oral Tal	SUGGESTION:		ANSWER:	Accept Sum	mantiam.		
Reference RFI#T-	0159, Sheet D-2212, S and attached photos	pecification	JUGGESTION.		The response		applies. The contered during pre-t		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 226 of 1053 11/05/2013

Date: Time: Job:

Date

Answarad

: 10:53 AM 30100

Cost

30100 - Transbay Transit Center Project

Number	Subject	Status	Created	Required	Ariswerea	<u>impact</u>	<u>Proceea</u>
			the information	shown on the dr	awings.		
BBII contends that the	e lower and smaller diameter piles as				J		
indicated in the attach	ned sketch were not shown in either		Note 7 on D-22	12 states, "Loca	tion and		
the contract drawings	or the reference documents,		depth/thickness	of (E) basemen	nt slabs, walls and	d pile	
therefore BBII was un	a-able to account for the removal of		caps and location	on and depth/gro	ouping of (E) piles	3	
these piles in their bid	I item prices. These piles meet the		shown on drawi	ngs based on be	est available		
general conditions art	icle 3.05A.2 definition of an		information and	may vary. []	These quantities	may	
unforeseen condition,	because that quantity of piles		not represent th	e actual extents	of the entire buil-	ding	
encountered exceeds	that shown in the bid docs.		and/or ramp stru	ucture foundatio	n elements		

Please confirm the removal of the "unforeseen" timber piles in excess of those shown in the drawings, will be tracked and paid under a Force account contract change order similarly as done for Zone 4 pre-trench obstructions.

(piles/footings)."

Crostod

T-0160 BSE - Timber Piles Not Extracted In Zone 4 Closed 06/03/2011 06/13/2011 06/16/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Daphne Faulkner Answered By: Turner Construction Comp Jack Adams

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

Reference CR T-010 and attached summary and sketch

BBII continues to remove unforeseen timber piles along 199 Fremont Street in Zone 4 and soon will commence extraction along 181 Fremont Street.

As of May 31, 2011, BBII has left 7 piles in place as they were estimated to be more than 12" away from the limits of the CDSM shoring wall. In addition, 5 piles were broken during extraction a portion of which were left in place due to their proximity to the adjacent building walls. While these piles also appear to be more than 12" outside the limits of the CDSM shoring wall, due to possible undulations and alignment changes underground, the possibility of these piles encroaching into the CDSM shoring wall area exist.

These piles are not shown on the contract plans and are extracted with extreme caution under the TJPA's direction and prescribed methods, taking the integrity of the adjacent buildings in consideration. Please confirm that it is the TJPA's intention to leave these piles in place.

SUGGESTION:

ANSWER: Accept Suggestion:

Date

Poquirod

Contractor is to remove the wood piles adjacent to 199 and 181 Fremont using alternate means and methods. Wood pile can remain along this line if it will not interfere with installation of CDSM wall.



The Specification Section 03 30 01 - 1.5 F Trial Batches references "concrete cylinders", however it does not

During the course of the meeting, it was generally agreed upon that 6x12 test cylinders appeared to be a more representative and consistent measure of the Primary Buttress Concrete strength relative to the core samples.

specify 4x8 or 6x12 test cylinders.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 227 of 1053 11/05/2013

Date: Time: Job:

: 10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u> Pi	rocee
T-0161	BSE - CDSM Wall	Soldier Pile Installation		Closed	06/03/2011	06/13/2011	06/06/2011	Potentially	
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Const	ruction LP Nhi	Tran	
Co-Author: Balfour Beat	ty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Specification Section 31 56 13, 3.13 and attached detail sketch Is it acceptable to cut a 1.5" diameter hole, 16" from the bottom tip, in the web of the soldier beam pile beams? The purpose of the hole is to aid in securing the tail of the beam to the "dolly" that DND will use to raise the beams into a vertical position.			SUGGESTION:	Accept Suggestion: - George Metzger ponse: eptable.					
T-0162	BSE - Buttress Co	oncrete Test Cylinders		Closed	06/03/2011	06/13/2011	06/08/2011	Potentially	
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beat	ty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Specification Section 03 30 01 and attached summary of test results BBII, Becho, Central Concrete, W/O, ARUP and Adamson Associates met on Tuesday 5/24/2011 to discuss the results of Buttress Primary Concrete Mix Trial Batches (please refer to the attachment for a summary of the test results). The 28-day test results for the 4x8 test cylinders were on average 57% of the core 4" diameter core test results. The 28-day test results for the 6x12 test cylinders were on average 88% of the 4" diameter core test results. The test samples were extracted from the same concrete batches, at the same time and cured in the same manner. BBII believes the difference in compressive strength between the test results may be attributed to the sample size & the resultant heat of hydration which drives the concrete cure rate. BBII also believes that the concrete cores may be more indicative of the actual in-situ concrete strength than the concrete test cylinders.			SUGGESTION:		available at th conclusions si Regarding the understanding between 4x8 a tested under i	that there is ins is time for the C tated in the RFI. e question posec is that there shand 6x12 cylinded dentical condition to limit the TJPA	ufficient informa	w the D's erence nd e, it is	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

228 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subject Status Impact Proceed

BBII has confirmed through CTS that there should be no additional cost in sampling and testing a 4x8 cylinder relative to a 6x12 cylinder.

Therefore, BBII proposes that the 6x12 test cylinders should be used as the basis of acceptance testing both for the Trial Batches and also for future Field Quality Control and Testing for the Primary Buttress Concrete: 4x8 test cylinders should only be used for informational purposes only. Please confirm.

T-0163 BSE - Hazardous Material Removed From Site Zone 2

Closed

06/03/2011 06/13/2011

06/06/2011

Potentially

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Daphne Faulkner

SUGGESTION:

Co-Author: Balfour Beatty Infrastructure, Inc.

Ural Yal

REQUEST:

Reference Specification Section 00 03 35, 1.2

During Investigation of Zone 2, BBII discovered potential lead based material existing on site. The specific area of concern is the pedestals on First Street.

Please confirm that all contaminated material (specifically the referenced pedestals) as specified in the specification section 00 03 35 Article 1.2 has been removed and abated by the Demolition Contractor.

BBII is scheduled to remove these pedestals next week and cannot proceed with this critical work until it is confirmed that the site is cleared of lead based materials as required by the Specifications.

The TJPA's attention is directed to the following Section of the Specifications:

SECTION 00 03 35 - EXISTING CONDITIONS: HAZARDOUS MATERIALS

"1.2 HAZARDOUS MATERIALS REPORTS A. The TJPA's environmental consultants have surveyed the facility for the presence of various hazardous

ANSWER: **Accept Suggestion:**

06/06/2011 - Kevin Chiu Hazardous material has been removed from site per the extent of demolition contract drawings for zone 2 this does not include the "pedestals" in Zone 2. The building and above ground structures were demolished to the extent shown on Demolition contract drawings. Hazardous materials abatement scope was completed within the scope of demolition only. Refer to Demolition Drawings D-1050, D-1051 and D-1073 for representation of limits of structures (specifically the referenced pedestals) demolished and hazardous material abatement.

Answered By: Webcor Construction LP Nhi Tran

BSE Contractor to handle remaining demolition and abatement in accord with BSE Spec 00-08-14 Health and Safety Criteria Para 1.2 and 1.3 Lead hazards, BSE Spec. 02-41-01 "Demolition" and BSE Spec. 01-13-50 "Hazardous Materials Procedures."



in the Fremont St. side of Zone 3. This was confirmed by Peter Cusack from Treadwell & Rollo. Specification Section 00.08.13.1.9.C states that "Should the existing

wastewater be contaminated, or should it be

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 229 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
lead, PCB ballasts, contaminated soils hazardous materia Demolition project removing and abat	s investigated may ind mercury containing la , underground storage s. The demolition cor (Evans Brothers Inc.) ng products containing I mercury-containing	amps, e tanks, and other atractor for the is responsible for ng asbestos, lead,							
T-0164	BSE - Timber Pil	es Adjacent 177/181 F	Fremont Building South Zone 4	Closed	06/06/2011	06/16/2011	06/06/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Webcor Const	ruction LP Nhi 1	Γran	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI@T-	0146.1 [BBI 0104] an	d attached photo			06/06/2011 -	Roger Rothenbu	rger		
metal sheet behind removed, in the loc The sheet is to hole close proximity of t close to the timber CDSM Wall Location	RFI 104 Response, the timber piles requation between 199 are back the soil in the ane timber piles, the she piles required to be report. The sheet is too content to the tops of the pile.	ired to be ad 181 Fremont. alley. Due to the neet location is too emoved from the lose for the pile			by TJPA in the June 3rd. The and expose the sloped excave be attached. reasonably a equipment, m	e "181 Fremont e Contractor can ne piles as neces ation that allows The work should short duration as anpower, mater al sheet is pulled		day al sheet eply a puller to hand	
T-0165	BSE - High pH W	ater Found In Zone 3	Pre-Trenching	Closed	06/07/2011	06/17/2011	06/10/2011	Potential	ly
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Turner Constru	ction Comp Daph	ne Faulkner	
Co-Author: Balfour Beatt	y Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
·	ation Section 00 08 1 water while digging a					s to treat the wat	A, a CR will be is		



From: Webcor Construction LP

REQUEST:

Co-Author: Balfour Beatty Infrastructure, Inc.

Nhi Tran

Ural Yal

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

230 of 1053

Time: 10:53 AM Job: 30100

Roger Rothenburger

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
uncontaminated but as a result of condition operations, a Chang	ons other than the C	Contractor's							
Please consider this Wastewater as defin advise on how to pro	ned by SS00.08.13.1								
0166	BSE - Unknown	Concrete Structure at	: 199 Fremont Zone 4 (Gridline 33-30)	Closed	06/07/2011	06/17/2011	06/22/2011	Potential	ly
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Compan [Daphne Faulkner	Answered By	Transbay PMP	C Roge	er Rothenbur	ger
o-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference RFI#T-01 Section 31 56 13, an Report 056 and phot	nd attached Turner F				and complied between the b	with by the BSE uildings 199 Fre	y transmitted in the Contractor. The emont and 181 First the curb and fla	fence remont	
BBII demolished the 199 Fremont St., and [RFI#T-0144] respon	d associated curb pe	er RFI #103			can wait until v that no further	work in the area damage is poss	is complete or a sible. The Contra stor repair damag	t a point ict	
previous contractor's inadvertently damag the waterproofing be	ed the metal flashing					ged during cons	truction activity f		
Along with the curb, Unforeseen Concrete removed, the fence of	e Structure, so wher								
See attached picture (5/24/11)	es and Turner Field (Condition Report							
(3/24/11)		he TJPA on this							

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Answered By: Transbay PMPC

Accept Suggestion:

ANSWER:



REQUEST:

Please provide City Survey of property lines with a

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

231 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

ANSWER:

ARUP Response:

Accept Suggestion:

				Date	Date	Date	Cost				
Number	<u>Subject</u>		Status	Created	<u>Required</u>	Answered	<u>Impact</u>	<u>Procee</u>			
Reference RFI #T 56 13	-0144, RFI #T-0166 and Specification	31		No action is required by the contractor at this time.							
provide an accept	to RFI#T-0166 (BBI RFI 103.1), pleas able repair procedure for the 199 Also, please confirm that the repair w CR T-010.			The specific damage to 199 Fremont Street has not been listed in the RFI. TJPA is aware of minor damage to the metal flashing along the curb at the bottom of 199 Fremont St and the removal of the unreinforced "curb" that ran along the base of the cinder block wall. As stated previously repairs to 199 Fremont will be made at a much later date. The damage that occurred to the flashing and unreinforced concrete curb resulted from using breaker on the unreinforced foundation wall and pulling the sections out and repairs will not be done until the project is further along in progress where no more likely damage will occur.							
T-0167	Survey Grid Control Documen	ds	Closed	06/08/2011	06/10/2011	06/20/2011	Potentia	lly 🗌			
From: Webcor Cor	nstruction LP Tim Maxw	ell To: Transbay Joint Powers A	uthoi Edmond Sum	Answered B	:Adamson Asso	ociates, Inc Geor	ge Metzger				
Co-Author:											
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:					
Reference RFI T-0	0112.1 and drawing GT-0100			ARUP Respo	nse:						
As requested by E we submit the follo	Ed Sum in today's (6/8/11) OAC meet owing question:	ng		For the purpo	as of loving out	the work shown in	, the				
0100 and as confi Survey Grid Contr be used for all futu	at gridlines as established from the G rmed on Chaudhary & Associates of Documents (Ref: RFI T-0112.1) ca ure construction elements (i.e., CDSN confirm by 6/10/11.	n		BSE package		ving provided by					
T-0167.1	Survey Grid Control Documen	es	Closed	07/01/2011	07/11/2011	07/05/2011	Potentia	lly			
From: Webcor Cor	nstruction LP Daniel Fo	ddy To: Turner Construction Com	pan Daphne Faulkner	Answered B	Adamson Asso	ociates, Inc Geor	ge Metzger				
Co-Author:											

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 232 of 1053 11/05/2013

Date: Time: Job:

modified by any additional data in the 600page April 2009 Treadwell and Roll report should be used to

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
translation to g	grid for our use.								
							has been provid es the building g		
0168	BSE - Soil Clas	sification Data		Closed	06/08/2011	06/18/2011	06/22/2011	Potential	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay PMP	C Roge	r Rothenbur	ger
o-Author: Balfour E	Beatty Infrastructure, Inc.	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
Reference Spe	ecification Section 01 13	50				ification Section	01 13 50 Part 1.		
use the old "P	nd Class 2 Disposal site SI for Caltrans" Reports of necessary tests, mis e.	in the Soil Profile,			the Contractor Transit Center 2010 for "the manner consis	use "Site Mitiga " by Treadwell a e management of stent with the rec		oay 24, a	
	site recommends the use rom 2008 and 2009, and eports.				Specification S	Section 01 13 50	ed as Appendix soils manageme		
Please Advise					references a 2 "Environmenta Terminal, San referenced in S Conditions Ha is not a part of 35 is not part of	and Treadwell and Site Character Francisco Calife Specification Se zardous Materia the Contract as of the Contract e		that is xisting report n 00 03 nnical	
					nothing to requ Caltrans'' repo report is basic	uire that the Cor orts. The April 20 ally a detailed da March 2010 repo	ent shows that th tractor use "PSI 09 Treadwell and ata report which rt "Site Mitigaitor	for d Rollo	
					The March 20	10 Treadwell and	d Rollo documen	t	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

233 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

18~55 feet (below grade) Bay Mud

Under Section 01 13 50 Part 1.5.G the Contractor is

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
						oils being excav 1 and Class 2 I	ated and coordir Disposal Sites.	nation	
T-0169	BSE - Disposal	of Drilling Spoils		Closed	06/09/2011	06/19/2011	07/07/2011	Potential	lly
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	Transbay PMP	C Rog	er Rothenbu	rger
Co-Author: Balfou	ır Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII is conc classified lay concern is d contamination Class 1 Mate site, or even and the clean Surface to G Equipment F GL-11 ft to G 50/APA)	erned of the close proximityers within the Buttress Arduring Drilling & Shaft Excap on of the material could poerial inadvertently going to a clean waist site. The clain material layers are descended on the control of the clain formatterial layers are descended on the control of the control	ty of the differently ea of Zone 4. The vation, cross tentially lead to a Class 2 Disposal ass 1, the class 2, ribed below: material except for on Spec 01 13			Summary - Sil use the Tread Mitigation Plar 2009 "Environ Terminal" repo Only the Marci a Contract Doi 50 and only da Report is inclu though both re language. The	Management) well and Rollo Ma, Transbay Tranmental Site Chaorts for managin h 24, 2010 Treacument in Appeata from April 20 ded as Contractports contain management April 2009 reports	O Part 1.1.C (Ge requies the Cont darch 24, 2010 ". nit Center" and A aracterization, Trig existing soil didwell and Rollondix A of Section 109 Treadwell and tinformation ever unch of the same ort is 600 pages rably shorter and	ractor to Site April ansbay sposal. report is n 01 13 d Rollo	
GL-16 ft to be BBII is concerned the soil out of water and the soil layer casing. Present difficult to distinct the clean materials and the clean materials. BBII request classification	ts the engineer to provide and that is better for the actualing used, that will prevent of	arge amount of ing attachment, that of mixing within the layers will make it is 1, the class 2, and a revised stratum al shaft excavation			material handl operation on the well as CDSM excavation material Both the April Rollo report giclassifications 5~16 feet (belloose to medical amounts of bring 15~18 feet (belloose to be to 15~18 feet (belloose	ing plan for eache site and incluoverflow materiterial, bulk excaponate the expected as: by grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty sick, wood, tar, allow grade) fill main dense silty silt	Contractor to such type of excavarides the buttressials, pre-trench avation material, an 2010 Treadwell ground condition aterial composed and with varying not glass fragmenaterial composes sand with variab	tion s piles as etc. I and n I of onts. ed of	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

234 of 1053 11/05/2013 10:53 AM

30100

.

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

resonsible for devleoping a plan that reduces the amount of hazardous waste generated. This plan also includes (Part 1.4.C Submittals - Excavation Handling) methods, means, equipment, sequences that segreegates the material to reduce cost of hazardous material disposal.

Since the buttress pile area was excavated to remove piles and backfilled with a combination of existing clean material (fine sand with silt) and crused concrete debris and poured concrete (top 2 feet buttress pile working pad) the Contractor needs to devise and submit the methods to handle the segregation of those materials for disposal in the appropriate Class land fills.

The Contractor will need to test materials for suitability and work out a plan with the Disposal Landfill Operators. TJPA will assist with the TJPA environmental consultant, Treadwell and Rollo but it is the Contractor's responsibility to mke the plan and handle the material. Classification of excavated materials by TJPA will not always govern how the disposal operators deal with the material. The actual conditon of the material must be determined prior to disposal.

The materials listed by elvation in the RFI are presumably the levles of CLSM, crushed concrete debris and the material below. The buttress area was excavated to a minimum of 12 feet below grade at the Fremont St. shoring wall and then another 3~5 feet was excavated to grab on to the timber piles for removal. The excavated material was replace with different materials when the engineered work pad was constructed with compacted material.

This means that the material is not necessarily class I as stated in the RFI or as designated in the Treadwell and Rollo March 2010 report. Whether the land fill operators will agree with that is the open question.

However, as stated in Section 01 13 50 it is up to the BSE Contractor to test and determine the disposal of material in accordance with the Contract.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

235 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject			atus	Date Created	Date Required	Date Answered	Cost Impact	Procee
		environmental consu testing does not erel responsibility for the	l consultant Trea ot erelieve the 0 for the means a	me testing by their outside the Treadwell & Rollo but such the Contractor of the ans and methods of proper being the "generator" of the					
0170	BSE - Existing	3" minus Concrete Rubble	CI	osed	06/20/2011	06/30/2011	06/29/2011	Potential	ly 🗌
From: Webo	cor Construction LP	Nhi Tran	To: Turner Construction Compan Daphne	e Faulkner	Answered By	Turner Constru	ction Comr Jack	Adams	
o-Author: Balfor	ur Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:	1		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Drawing Sheets GT-1303, I 03, response to Pre-Bid RF awing	* * * * * * * * * * * * * * * * * * * *			construction d buttress fill ma	lemolition concre	t is to retain proce ete onsite for use de a working platf perimeter wall	as	
D-5103 alor 014 describ of crushed	awings GT-1303, D-5100, Ing with the response to Prese the finish grades and sub 3" minus concrete to be left a summary, Zone 4 was to be	-Bid RFI #TG0300- sequent quantities on site for the BSE			Contract draw CDSM wall pe crushed/proce	ings state" Substrimeter shoring	sequent to placem remove all onsite concrete backfill.		

depression as shown on GT-1303 and Zone 1-3 were to be left no higher than existing ground elevations.

Previous discussions between BBII, W/O, EBI and TJPA were made to accommodate BBII's early access into Zones 1-3 for pre-trenching. At the time of these discussions EBI indicated they were short approximately 7000 cy of balancing the site and that they would not be able to get that remaining 7000 cy until the existing ramps were demolished. As a result of the short term shortage and in exchange for access to zone 1-3 BBII agreed to:

- Allow EBI to leave Zone 3 low of the Existing elevations - Allow EBI to set up Crusher in Zone 2 for ramp
- Allow EBI to leave the 7000 cy shortage in a stockpile in Zone 2, for our later use.

demolition

BBII appreciated the partnering agreement however the current size of the stockpile is far greater than BBII ever expected. BBII surveyed the stockpile and the Zone 3

The amount of crushed concrete (and asphalt) is from the demolition contract is in accord with Demolition Contractor drawings and specs. REF: Demo Spec. 02-42-00.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

236 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
zone 4 and BBII stockpile to be in	77/11 after they complete estimates the size of the excess of 11,000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was creater than the excess of 1000 cy (the last stockpile that was cy (the last stockpile that was cy (the last stockpile that was cy (the last stockpile that the last stockpile that was cy (the last stockpile that stockpile that the last stockpile that stockpile the last stockpile that the last stockpile that the	e concrete iis does not							
was left approxil 5000 cy were ta result BBII requi entirety from the	calculations (see attach mately 2000 cy short of e ken from the stockpile to ests the current stockpile site, as it is in excess of moved by the BSE contra	existing grade and Zone 4. As a be removed in its f the contractual							
in taking 2000 c delivered and st area. BBII sugg	eptable to TJPA, BBII wo y of the crushed concrete ockpiled in an mutually a ests Lot S. This materia r excavation stabilization	e if it could be greeable staging Il would then be							
T-0171	BSE - Concrete S	Section Protruding Ir	nto CDSM Shoring Wall Area Zone 4	Closed	06/13/2011	06/23/2011	06/17/2011	Potential	lly 🔲
From: Webcor C	onstruction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	:Transbay PMP	C Roge	er Rothenbur	rger
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
section of concr shoring wall are	hed photo g a pile next to 181 Frem ete that was protruding i a fell from the foundation e advise on how to proce	nto the CDSM wall of 181			surfaces of th grouted ancho around the op wall and mesl concrete thro	ald be filled with 2 e opening are clopage of #3 reban ening in the exist in is required befough a "bird's mou	2000 psi concrete eaned. In addition r hooks at 12" c.c. sting concrete bastore placing repairuth" form for a coowing the desire	on c sement r omplete	

T-0172

LEED Submittal Requirements

Closed

06/13/2011 06/23/2011

configuration of the repair patch. Cost to be tracked under CRT#10.

06/21/2011

Potentially

Answered By: Adamson Associates, Inc George Metzger

From: Webcor Construction LP

Joanne Filipas

To: Turner Construction Compan Daphne Faulkner

Co-Author:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 237 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proce
REQUEST: Ref Spec Section 01 81 13 Section	1.5:	SUGGESTION:		ANSWER: We agree with	Accept Sugo	gestion:	ata.	
According to spec section 018113.1 shall be submitted in addition to othe requirements specified elsewhere. Identical to an item submitted to con requirements, a duplicate copy is to effort to minimize duplicate submitta acceptable to issue one submittal pathe technical spec. and LEED spece.	er submittal f a submitted item is nply with other be submitted. In ls, please confirm it is ackage to cover both							
T-0173 BSE - Enhan	ced Trial Batch Testing		Closed	06/13/2011	06/23/2011	06/15/2011	Potential	lly
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Com	npan Daphne Faulkner	Answered By:	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Balfour Beatty Infrastructure, I	nc. Ural Yal							
REQUEST: Reference Specification Section 03 attached mix designs	30 01, 2.2.E and	SUGGESTION:		ANSWER: ARUP Respon	Accept Sugg se:	gestion:		
BBII, Becho, Central Concrete, W/O Associates met on Tuesday 5/24/20 results of Buttress Primary Concrete Based upon the preliminary results of BBII proposes to submit the followin approval for use on the Buttress Prin 1. Mix 1: 85AEC3B6 2. Mix 5: 86AEC3A6 3. Mix 7: 87AEC3A6	11 to discuss the Mix Trial Batches. of the 2nd Trial Batch, g three mixes for			This is accepta	ble.			
BBII believes that having additional use as the Buttress Primary Concre								

One of the concerns of 1st and 2nd Trial Batches was potentially accelerated curing due to the Styrofoam

for future use as Primary Shaft Concrete.

benefit to the Project. BBII proposes "enhanced testing" of these three mixes as well as three additional hybrids of each mix for a total of nine mixes (please see attached for mix designs). The intent of the enhanced testing is to further refine the information we currently have on all three of the above three mixes, as well develop additional mixes



The existing curb around the manholes at the east and west ends of the 301 Mission Wall is unknown. Design

documents do not provide information as to the specs of

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

for curb(s) and walkway(s) based on specification as

follows;

238 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
BBII proposes a 3 methodology of the only exception +/- 5'x5'x4' deep insulated forms. I excavation, lined	3rd trial batch using a he approved trial bat in being that the cond excavations in lieu of Each mix would be p with plastic to retain	ch method placing, crete will be cast into f the Styrofoam laced in an individual moisture. All other							
as previously sub The results of the and possibly subi	omitted & approved. e "enhanced testing" mitted for approval a	ethodology would be would be evaluated s additional Buttress							
Primary Shaft Co	nat this is acceptable								
T-0174	301 Mission V	Vall - New Curb Detail		Closed	06/14/2011	06/24/2011	06/20/2011	Potential	ly 🗌
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Compan Dap	hne Faulkner	Answered B	y :URS Corporati	on David	d Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attacl	hed sheet C-5000				New concrete	e curb shall be pl	aced on top of top above top of par	pping	
curb set atop finis way down to struc	b details are not clea sh pavers, onto toppi ctural slab. Additiona details to match cond	ing slab, or set all the ally, provide all			See attached	l detail for reinfor	cement. Concrets shall be according	e mix	
T-0175			Around Existing Manhole Covers	Closed	06/15/2011	06/25/2011	06/20/2011	Potential	ly
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Compan Dap	nne Faulkner	Answered B	y:URS Corporati	on David	d Fyfe	
Co-Author:									
REQUEST:	0 0000		SUGGESTION:		ANSWER:	Accept Sug		-1-	
Reference drawir	ng C-2000						ch existing concre e concrete mix de		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

239 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

this concrete mixture. The existing concrete appears to have a color added to the mix design. Please provide a mix design and color specification (if necessary) to use at these locations.

Concrete Mix, Design and Testing: Design the mix to produce standard weight concrete consisting of Portland cement, aggregate, air-entraining admixture and water to produce the following properties:

Compressive Strength: except as noted below, four thousand five hundred (4500) psi, minimum at twentyeight (28) days, with a water cement ratio not to exceed 0.45 by weight. Slump Range: Two (2) inches to Four (4) inches.

Air Content: Five (5) to seven (7) percent. Mixed shall be design to provide concrete with the following properties:

Location Maximum Size of Aggregate Min Sacks of Min. 28 Day Strength (psi) Cement/cu. Yd.

3/4" Concrete Curb

3000 6

Concrete Walkways 2500

5-1/2

Integral Color: Sidewalk shall be constructed of a dark grey, Hi-Con at 5 lbs. per cubic yard carbon black based concrete finish, with 25 to 30 lbs per 100 square feet of silicon carbide sparkle grains.

Contractor shall submit mix design (including integral color) for review and acceptance by the TJPA Representative prior to placing concrete.

Contractor shall provide sample of new concrete to ensure that it matches with existing concrete prior to placing new concrete.

T-0176 301 Mission Wall - Fill Pour Back and New Curbs Closed 06/15/2011 06/25/2011 06/20/2011 Potentially

From: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner Answered By: URS Corporation

David Fyfe



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

240 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

Numbe	er Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Au	ithor:								
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Should the concrete mix design for the f 9"x12" curbs along the north side of the be the same mix that is used for the nev manhole? The mix design for curbs aro	301 Mission wall w curb around the			Concrete mix design for new concrete curbs sh as specified in RFI T-0175. Finished concrete curbs shall match existing co				
	manhole was requested in RFI T-0175.				curb finish.	orete ourbe snar	materi existing of	Shoroto	
						ve for review and	e mix design to TJ d acceptance prio		
T-0177	BSE - Alternate	Method Of Pile Remova	al Along 181 Fremont	Closed	06/15/2011	06/25/2011	06/16/2011	Potential	ly 🔲
F	From: Webcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Daphne Faulkner	Answered B	y:Turner Constr	uction Comr Jack	Adams	
Co-Au	thor: Balfour Beatty Infrastructure, Inc.	Ural Yal							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference attached procedure, photos, and sketch During the extraction of unforeseen piles along 181 Fremont, two piles located inside the proposed CDSM wall broke and are now too deep to extract under using the current extraction method. During the attempted extraction of pile 151, the pile continued to break. The top of this pile is approximately 9' below the base of the foundation wall. Considering the length of the adjacent removed piles, there is approximately 6' left to be removed. Pile 105 is approximately 6' below the base of the foundation wall leaving approximately 12'-14' to be removed. Further excavation to expose these piles is not reasonable. BBII proposes to drill the remainder of each pile out. See below the proposed procedure as per committee meeting and consultation with Viking Drillers Inc. on 6-15-11. It was agreed that this work will be charged to CR T-010. Also attached are photos and a drawing indicating the location of both broken piles (105 and 151).						Method of pile red to document w	moval is acceptal	ole. CR	
	or both broken piles (105 and 151). Please provide direction.								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

241 of 1053

Time:

10:53 AM 30100

				•		•			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: We	bcor Construction LP	Nhi Tran	To: Turner Construction C	ompan Daphne Faulkner	Answered B	y :Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author: Bal	four Beatty Infrastructure, Inc.	Ural Yal						, ,	
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	igestion:		
	e RFI#T-0151 and Sheets GT-2 ⁻	103 and GT-2201	0000_0110111		ARUP Respo		,gco.ioii		
acceptable Please ac	ngineer's response to RFI#T-01! le to expand the overall Buttress dvise if the CDSM connector colu per contract drawings GT-2103 a	4'-4" to the east. umns can still be			increase the s connector col supplemented	spacing of the d lumns will need d with additional	Contractor wishes rilled shafts, then to shift and / or be columns to provid the of the buttress	the e de	
-0179	301 Mission Wall	- Detail at Steel Basepla	tes on South Side	Closed	06/21/2011	07/01/2011	07/11/2011	Potential	lly 🗌
From: We	bcor Construction LP	David Hungerford	To: Turner Construction C	ompan Daphne Faulkner	Answered B	y:URS Corporat	ion David	l Fyfe	
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	agestion:		
"Reference drawing D/A-6000 and attached sketch Detail D/A-6000 does not provide a plywood panel termination detail at the steel baseplate locations along the south side of the 301 Mission wall. At the locations of the steel baseplates, use of sealant and backer rod would leave the steel baseplate exposed (see attached sketch). Please advise."					flashing to pro response. Al specified in c	otect steel base though installati ontract docume	has already instal plate prior to this on of flashing is non this this means of e is acceptable.	RFI	
-0180	BSE - CDSM Wall	Tolerance		Closed	06/22/2011	07/02/2011	06/22/2011	Potential	lly 🔲
From: We	bcor Construction LP	Nhi Tran	To: Turner Construction C	ompan Daphne Faulkner	Answered B	y: Transbay PMI	PC Roge	r Rothenbur	rger
Co-Author: Bal	four Beatty Infrastructure, Inc.	Ural Yal							
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Section 31 56 13 As requested by the TJPA, DND submits this request to modify the horizontal tolerance for the CDSM shoring wall. The new goal is to set the wall 2" outside of the original planned centerline of shoring wall. This solution has been proposed by the TJPA in order to not encroach into the structure at the bottom of the train box.					Contractor wa tolerances for shoring wall t and TJPA wo avoid any end	request this RF as concerned ab r top horizontal p hat the Contract ould support suc croachment of the sit Box concrete	I. TJPA stated that cout meeting the coosition of the CDS tor should submit a request in order to CDSM shoring a structure which we	SM an RFI er to wall	
	pectfully requests the maximum all tolerances be revised to 0 incl						horizontal setting zontal tolerance is		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

242 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
trainbox & up to 5 ind There will be no addi associated with this However; there may	ches outside the trainb itional excavation and/ increase in tolerance for be future additional co ete & Waterproofing the de packages.	or bracing costs rom BBI. ost impacts to		Status	towards the T box structure. (CDSM wall) a The 4" top hor allow at 1/150 invert level with the steel bear 0.70". It is understood associated with work and that concrete gene horizontal place of avoiding strinvert level.	TC box structure. The verticality to and 1/200 (steel rizontal tolerance in 55 feet a neath the CDSM was not be clear of the this change for TJPA accepts to be certed by this shocked by the structural encroacters to the thing change for the thing company the thing company the thing	e and 4" away froi olerances of 1/15 beam) remain in e away from the var 0" clearance at ill and will allow a the structural outline o cost or time or the BSE Contra he additional over hall adjustment in nge for a better of hment issues at to	m the 0 place. vall will the 1/200 ne by	Proceed
					horizontal tole	rance is conting	ent on actual field ces for the CDSM	, t	
T-0180.1	BSE - CDSM Wall 1	Tolerance		Closed	06/24/2011	07/04/2011	07/07/2011	Potential	ly
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Transbay PMP	C Roge	r Rothenbui	ger
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference Response to RFI#T-0180

Please delete the first sentence "TJPA did not request this RFI" of the response for RFI T-0180, because it is the wrong statement.

Emilio Cruz, PMPC, requested to submit this RFI at the Schedule Review Meeting on 6/14/2011 at W-O JV Office Conference Room, 183 Fremont St.

It depends on how "request" is defined. TJPA did "request" the RFI for expanded tolerances but only if the CDSM shoring wall subcontractor felt that they needed more tolerances and wished to have TJPA confirm that it would accept a larger set back (4") than allowed in the Specifications (2"). This is the same undertanding held my Emillio Cruz.

TJPA has allowed a 4" set back while maintaining the verticality specifications for the steel soldier piles (1/200) and the CDSM (1/150). The CDSM shoring wall subcontractor has initially selected a 2" setback for placing the steel soldier beams. At 1/200 for a depth of 55ft there could be as much as 1.3" of



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

ground surface ("original grade") at the start of pile

Please also refer to 31 56 13 3.4 A and 31 56 13 3.13

installation.

243 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

				<u>-</u>	Date Date	Date	Date	Cost	
Number	Subject			<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Proceed
					encroachment (1/200x55x12 - 2" = 1.33"). At the very least it would seem that a 3" setback would minimize further the posibility for encroachment since the 1/200 is still a difficult specification to achieve as TJPA understands it from the CDSM subcontractor.				
		Since encroachment can be very pr concrete structural wall TJPA supports setback to avoid difficult encroachment while maintaining the specifications issue of who requested what and with the specification is succepted the potential for concrete from allowing a larger setbor to contractor has accepted any impact system from a larger impact.					a supports the large coachment proble cations on vertical and when is immential for additional er setback and the	ger ms lity. The aterial. le BSE	
T-0181	BSE - CDSM Pile	Tolerance Measuren	ent Location	Closed	06/22/2011	07/02/2011	07/01/2011	Potentia	lly 🗌
From: Webcor Constru	uction LP	Nhi Tran	To: Turner Constru	uction Compan Daphne Faulkner	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatty I	nfrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specificati	on Section 31 56 13	1			ARUP Respo	nse:			
BBII's subcontractor I location of the soldier measured. Please fine	pile, where the pile	tolerance is to be			We confirm the location of the	nat the tolerance CDSM wall an	e refers specifical d soldier pile cen	ly to the terlines.	
"It is our understandir pile beams is to be m elevation. Is this corr	ng that the tolerance easured at the plan ect?"	of the soldier top of pile			Section 31 56 13 3.3 A. states: "The location of the CDSM wall centerline relative to that shown on the Drawings is 0" toward the excavation and 2" away from the excavation." This refers to the location at the ground surface ("original grade") at the start of drilling the control of the start of drilling the control of				
Please confirm that D tolerance measureme		of the pile			construction t pile centerline is 0" toward tl	olerance for the relative to that he excavation a	tates: "Acceptable location of the so shown on the Drand 3" maximum a efers to the location	oldier awings away	



a) CDSM Columns: Inclination deviation no more than

b) Steel Soldier Pile: Inclination no more than 1:200

(W/O comment - Same as stated in Specification Section

(W/O comment - Same as stated in Specification Section

1:150 (horizontal to vertical)

31 56 13, 3.4.A)

(horizontal to vertical)

31 56 13, 3.13.B.9)

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Date

244 of 1053 11/05/2013 10:53 AM

Time:
Job:

Cost

10:53 AM 30100

<u>Number</u>	Subject		<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Proceed		
					B 2 which stipulates respectively the vertical alignment of the CDSM wall and soldier piles.					
T-0181.1	BSE - CDSM Tole	erances Nhi Tran	To: Turner Construction Con	Closed	07/21/2011	07/31/2011	07/26/2011	Potential	ly	
	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction Con	npan Gary Krutsch	Allswered by	-Adamson Asso	ociates, Inc Geor	rge ivietzger		
REQUEST: Reference RFIs #T-180, #T-0180.1, #T-0181 and Specification Section 31 56 13 Previous RFIs T-180, T-180.1, and T-181 have all addressed CDSM shoring wall tolerances. Below is BBII's interpretation of the responses: 1. Horizontal Tolerance: a) CDSM Columns: 0" in towards the train box, 2" maximum away from the train box - measured relative to the "plan" CDSM shoring wall centerline located at the ground surface (original grade) at the start of drilling (W/O comment - Reference Specification Section 31 56 13, 3.3.A)			SUGGESTION:		1 a. 0" in towa from the train alignment exc 33.5. 0" in tow from the train A/26-30 and A 1 b. 0" in towa	ands the train both box is acceptable ept at wall segment at wall segment box is acceptable box is acceptable \(\sigma 0-33.5.\)	- Ш	ong the d A/30- away nts		
b) Steel Soldier Pile: 0" in towards the train box, 4" maximum away from the trainbox - measured relative to the "plan" CDSM shoring wall centerline located at the ground surface (original grade) at the start of drilling (W/O comment - Reference Specification Section 31 56 13, 3.13.B.8)					2 a. Confirmed					
2 Vertical Tole	erance:									



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 245 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please conf	irm this is acceptable								
0182	BSE - Inclinomete	er Locations Within The CD	SM Wall	Closed	06/23/2011	07/03/2011	06/24/2011	Potential	ly 🗀
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	• 🔲
o-Author: Balfou	ır Beatty Infrastructure, Inc.	Ural Yal	•	•	_		•	0	
			SUGGESTION:		ANSWER: ARUP Respon	Accept Sug	gestion:		
drawings Gallocations of that are to be Please notifications.	to the Instrumentation Plan of T-1301 & GT-1302, which dep the 15 inclinometers (IW-1 the installed through the CDSM y BBII of the exact locations of the body by the through the soldier pile of the through the	oicts the rough rough IW-15) 1 shoring wall. of those numbers 1			Provide pipes at the piles (beams) in accord detail 13/GT-5101 in the following fourteen be numbers: 46, 97, 138, 226, 306, 325, 340, 4478, 497, 556, 641, 730. Refer to the plan swith the RFI for the beam numbers. As noted in 13/GT-5101, wood block shall be the bottom of the pipe. The top of the pipe sl covered with duct tape to prevent filling with cement.			am , 458, mitted used at II be	
0182.1	BSE - Connector	Wall Inclinometer Locations	S	Closed	06/30/2011	07/10/2011	07/05/2011	Potential	ly 🗌
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author: Balfou	ır Beatty Infrastructure, Inc.	Ural Yal							
	RFI#T-0182, Transmittal No. 1	140-01802, and	SUGGESTION:		ANSWER: ARUP Respon	Accept Sug	gestion:		
Specification Section 31 56 13 BBII is in receipt of the Engineer's response to RFI T-0182, which lists the fourteen pile numbers where the inclinometers will be installed. Please note that pile # 443 was already installed on 06/18/2011, as part of the CDSM test panel.						ter casing shall ather than numb	be installed in pi per 443.	e	
Can the incl instead of pi	inometer casing be installed a ile # 443?	at pile # 446,							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 246 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0183	BSE - Connector	Wall Shift		Closed	06/23/2011	07/03/2011	06/27/2011	Potentiall	у
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference R attached ske	RFI#T-0178, Sheets GT-2201 etch	, GT-5101, and	SUGGESTION:		ANSWER: ARUP Respo		- Ш		
acceptable t east and to a material for t that it is acc CDSM Conn and add two please confil	ineer's response to RFI T-01 o shift the CDSM Connector add additional columns to prothe full width of the Buttress. eptable to shift the lower threector Columns approximatel more columns to the top row rm that the CDSM Shoring W and 30 can still be installed [7-5101.	Columns to the covide CDSM Please confirm the rows of the y 3'-6" to the east v. Additionally, /all between			Provided there is no additional cost to the TJPA, it is acceptable to shift the connector columns and add columns as proposed and shown on the sketch. The CDSM Shoring Wall between Gridlines 26 and shall be installed per GT-2201 and Table 16/GT-510				
-0183.1	BSE - Connector	Wall Shift		Closed	06/30/2011	07/10/2011	07/11/2011	Potentiall	у
	or Construction LP	Nhi Tran	To: Turner Construction Compar	Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	RFI#T-0151, RFI#T-0178, RF n Sections 31 63 29 and 31 5				ARUP Respo	nse: of the CDSM co	nnactor column	e chown	
Please refer which accep east. Please No. T-#0178	to the Engineer's response to the ted the expansion of the Butto also refer to the Engineer's to where the designer requires shifted and/or supplemented	tress 4'-4" to the response to RFI d the connector			on the sketch The locations sketch accom	accompanying of the buttress s npanying the RF ne marked-up sk	the RFI are accesshafts shown on have been revision	eptable. the sed.	
columns to p buttress. BB layout per th	provide CDSM material for the street	e full width of the nector column all two additional			A revised GT	-2201 will not be	issued.		
connector co	rm, if the proposed revision of blumns according to the attact sign requirement.								
	issue revised construction d t the changes made to the Brector walls.								



From: Webcor Construction LP

Co-Author:

Nhi Tran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Turner Construction Comr Jack Adams

247 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0184	BSE - CIDH Pile R	ebar Cage Hoop Size		Closed	06/27/2011	07/07/2011	06/28/2011	Potentiall	ly 🗌
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	T-5202, Specification and approved Shop 32001A05				0 0	nse: clearance from	face of reinforing	g steel to	
hoop OD and the ins discussions with Bed between the rebar s	2 shows 5" clearance side diameter of a 7' 4 cho, at least 3" of cleapacers and the ID of the lation of the rebar catallation of the rebar catallation.	-/- 2" shaft. Per arance is needed he casing to			the son race in	rom 5" to 7 1/4"	із ассертавле.		
lieu of the 5" clearar the hoops and the in the clearance from 5	opose 7 1/4" minimur nce (shown on 12/GT- iside diameter of the l 5" to 7 1/4" would give need between the spa	5202) between nole. Changing Becho the 3" of							
clearance to the hoo submit for your reco	red rebar shop drawin ops as per 12/GT-520 rds only revised shop ed 7 1/4" minimum cle	2. BBII will drawings							
T-0185	Division 01 specif	ications issued for the	TG08.1 package	Closed	06/29/2011	07/09/2011	07/13/2011	Potentiall	ly 🗌
From: Webcor Const	ruction LP	Tim Maxwell	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Transbay PMF	PC Alfre	ed Lau	
Co-Author:						·			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Confirm if any of all of the Specification Sections 00 01 10, 00 01 15, 00 01 16, 00 03 50, 01 10 20 / APH, 01 10 30, 01 10 30 / APA, and 01 80 50 issued for the TG08.1 bid documents are to be incorporated into the overall project specifications. If so, the specifications should be issued to W/O by Field Order or Change Order.					Yes, the revis	ed Divsions 00	& 01 sections wi		
T-0186	BSF - Hazardous	Materials Removed Fro	om 564 & 568 Howard Street	Closed	06/30/2011	07/10/2011	07/07/2011	Potentiall	

To: Turner Construction Compan Daphne Faulkner



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

248 of 1053 11/05/2013

Time:

10:53 AM 30100

				•		•			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Assessment:	nal Pre-Demolition Hazaro Asbestos & Lead Survey 11, prepared for ERM-We ssociates	(564 & 568 Howard			in this report,		de the materials i al will be to the e or Demolition.		
in the Final P Assessment:	m that all the hazardous r re-Demolition Hazardous Asbestos & Lead Survey 11, will be removed by the	Materials (564 & 568 Howard							
-0187	BSE - Connecte	or Wall Inclinometer Loca	tions - SEE RFI 182.1	Closed	06/30/2011	07/10/2011	08/23/2011	Potential	ly 🗌
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	ne Filipas	
Co-Author: Balfour	Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	FI#T-0182, Transmittal No Section 31 56 13	o. 140-01802, and			SEE RFI T-01		3		
0182, which li inclinometers	eipt of the Engineer's respists the fourteen pile num will be installed. Please installed on 06/18/2011, a	bers where the note that pile # 443							
Can the inclin	nometer casing be installe e # 443?	d at pile # 446,							
-0188	BSE - Timber P	iles Minna Street		Closed	07/01/2011	07/11/2011	07/05/2011	Potential	ly 🗌
From: Webcor	r Construction LP	Masashi Kojima	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Turner Constr	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc	. Ural Yal							
	2211 and D-5101.		SUGGESTION:		ANSWER: Please refer to		gestion:	states,	
between Grid piles. The tim drawings. See	e-trenching operation on I lines 9-17, BBII discovere ber piles are not shown o e attached BSE drawing I pictures indicate timber p	ed unknown timber In the BSE D-2211, D-5101.			existing pile c and/or piles p	aps and piles, r	all conflicts with the emove (E) pile c ion of (N) Transit oring wall (see No	aps Center	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 249 of 1053 11/05/2013

Date: Time: Job:

Data

: 10:53 AM 30100

Coct

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt
Number	Subject	Status	Created	Required	Answered	Impact Proceed
	-					

from the centerline of the CDSM wall. These piles meet the general conditions set out in article 3.05A.2. The piles encountered were not outlined in the bid documents. Please confirm the removal of the "unforeseen" timber piles, tracking and paid under a Force account contract change order similarly as done for Zone 4 pre-trench obstructions.

6)."

Please refer to note on Drawing GT-5103 which states,

Data

"Width and Depth as required to remove obstacles"

This includes all piles within the CDSM wall footprint.

"Unforeseen Conditions" are covered in Section 00 07 00 (General Conditions) Article 3.05.A.2 and 3.05.A.3 (Unforeseen or Changed Conditions).

Article 3.05.C states,

- C. Differing Site Conditions shall not include:
- 1. All that is indicated in or reasonably interpreted from the Contract Documents or Reference Documents;
- 2. All that could be seen on Site
- Conditions that are materially similar or characteristically the same as those indicated or described in the Contract Documents or Reference Documents.

Since Section 31 56 13 discusses both pre-trenching and the removal of timber piles and Bid Item #6 is for the removal of timber piles before the CDSM shoring wall is installed TJPA believes that this work was indicated and will provide payment for it under Bid Item #2, #4, #6, and #7.

There will be no additional payment for the removal of timber piles for the CDSM wall.

T-0188.1 BSE - Timber Piles Minna Street Closed 07/07/2011 07/17/2011 07/12/2011 Potentially

From: Webcor Construction LP Masashi Kojima To:

Ural Yal

To: Turner Construction Compan Daphne Faulkner



response to RFI#T-0188.2. BBII has observed

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

250 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber Subject	Status	Date Date Date Cost Created Required Answered Impact Procee
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference RFI T-0188, Drawing D-2211 and D-5101.		ARUP Response:
Further to the TJP A response RFI # 188, this response did not address the mentioned timber pile removal method. Please see the attached cross section showing timber pile location in relationship to the existing utilities and structures. Due to the pile location, in relation to the shoring box BBII proposes direct extraction as done on A line in Zone 3. Please confirm this removal method is acceptable for the entire length of Minna Street.		Arup recommends that the procedure for removing these piles follow the procedure described in Arup's response to RFI T-0146.4.
-0188.2 BSE - Timber Piles Minna Street	Closed	07/13/2011 07/23/2011 07/14/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By:Transbay PMPC Roger Rothenburger
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference response to RFI#T-0188.1 and RFI#T-0146.4 As discussed at the TG03 BSE Design Team meeting on 7/13/2011, sand shall be used for back fillings instead of the low strength material described in RFI#T-0146.4. Also, TJPA representative shall observe the extraction and instruct the extraction method in the field, if necessary.		TJPA Representatives and Arup will observe the method in practice Thursday July 14, 2011 at 10am to observe the method using sand described above for final verification that this method will be acceptable and suggest any changes to the method at that time.
Please confirm.		
-0188.3 BSE - Timber Piles Minna Street	Closed	07/18/2011 07/28/2011 07/26/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner	Answered By:Transbay PMPC Roger Rothenburger
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference RFI#T-0188.2 and attached photos BBII has concerns for the integrity of the adjacent street and utilities, as a result of the pile extraction being performed on Minna Street in accordance with the		Contractor's concern for the integrity of the adjacent street and utilities is as a result of the shoring method used - not the result of the pile extraction being performed on Minna Street in accordance with the response to RFI#T-0188.2.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

251 of 1053 11/05/2013 10:53 AM

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

undermining and adjacent settlement during the extraction process (see attached photos).

Please advise an acceptable method of pile extraction that will allow this work to continue

The observed undermining and adjacent settlement during the extraction process is to be restored to prevent damage to Utilities installed in Minna Street. The methods allowed in RFI T-0188.2 are to be followed by the Contractor.

Section 31-56-13 Part 3.2.C (CDSM Wall - Pretrenching) also references Section 32-12-17 (Street Excavation & Restoration) for pre-trenching "...within and or adjacent to the public right of way." In addition Section 31-56-13 Part 3.2.D requires the Contractor to "Comply with all regulatory requirements regarding trench shoring." Both Section the Street Excavation and Restoration Specification 32-12-17 and the regulatory requirements for trench shoring require a shoring system designed by a Professional Engineer and submitted to TJPA as well as the SFDPW. OSHA requires for all trenches deeper than 5 feet and not sloped according to OSHA standards be designed by a Professional Engineer.

Given the above it is the Contractor's responsibility to select the means and methods and to design pretrench shoring meeting the above requirements.

TJPA observations of the Minna Street pre-trenching operations showed that the "trench shield" method of support where excavation below the trench shield required for both sinking the shield and exposing "obstructions" allowed the loose fill sand at the bottom of the excavation to slough into the excavation. This loss of ground led to settlement of the street and potential settlement of the adjacent water line and sewer.

TJPA notes that the Contractor has commenced using near-flat sheet piles in combination with the trench shield bracing to achieve the depths required. However, no submittal of a design done by a professional engineer has been submitted to TJPA in accordance with the requirements from the Specifications stated above.

An acceptable method of pile extraction includes a suitable trench shoring method and plan that meets



Please confirm.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

252 of 1053 11/05/2013

Date: Time: Job:

classification for CDSM overflow materials can be

agreed with the land fill operator.

10:53 AM 30100

				<u> </u>		,			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					to the use of Specification method of pile has been add witnessed a smethod of pure specific	praced sheet pile requirements are e extraction with ressed in a previatisfactory site of ling timber piles eeorge Metzger: nse: e removal of the d a procedure in confirm that this		e above al nd filling PA has this	
							emporary shoring ontractor's mean		
T-0189	BSE - CDSM Spo	ils - Initial Off Haul		Closed	07/01/2011	07/11/2011	07/05/2011	Potential	lly 🗀
From: Webco	or Construction LP	Masashi Kojima	To: Turner Construction Compan	Daphne Faulkner	Answered By	/ :Transbay PMF	C Rog	er Rothenbui	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal				-			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
TCCO and V the CDSM sp hazardous w to lack of soi of cross cont BBII is curre their Consult	ntly in talks with various local ant with the advice of Treadv of the spoil to be classified u	e initial off haul of s 2 non- pid item #38 due e landfill and risk I landfills and well Rollo for the			overflow spoil For the single panel overflow without prejud overflow mate materials (30 a Class 2 land with the Cont	overflow "spoils s from the CDS s purpose of rem w now on the sudice for the classerials the "iniital" loads+/-) from Z d fill site. Payme	" is considered of M test panels in a coving the CDSM face in Zone 4 a diffication of future CDSM overflow Zone 4 may be heart will be in accord Class 2 hazar	Zone 4. I test and E CDSM auled to ordance	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

253 of 1053

Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0190	BSE - Connector \	Wall Daily As Built Req	uirement	Closed	07/01/2011	07/11/2011	07/13/2011	Potential	lly
From: Webco	r Construction LP	Masashi Kojima	To: Turner Construction Compar	Daphne Faulkner	Answered By	:Turner Constru	uction Comr Jack	Adams	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
To satisfy the continue to so on a daily bas within 24 hou	specification Section 31 56 13 as Section 31 56 13 1.4F required the "DND Daily Constructions along with the attached as rs of column installation."	rement, BBII will uction Report" s-built drawing ction 1.4F	SUGGESTION:		(i.e. surveyed therefore does	as-builts, colum s not satisfy the	gestion: is required inform in diameter, etc.) documentation 3 (1.4, 3.5, 3.11,	and	
-0191	BSE - Connector \	Wall Final As Built Req	uirement	Closed	07/01/2011	07/11/2011	07/12/2011	Potential	lly
	r Construction LP	Masashi Kojima	To: Turner Construction Compar	Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sp	pecification Section 31 56 13	3.3B.			ARUP Respoi	nse:			
proposes to s California lice of each Zone Please confiring requirement: Contractor sh California lice	e Section 31 56 13 3.3B requisibilities built drawings prepensed surveyor at the approxit. If the second surveyor at the approximation of the second surveyor indicating the relative to the excavation alignment.	ared by a simate completion oction 3.3B ruction, the prepared by a location of the			of column inst by a licensed	tallation. The dra	drawings within 2 awings shall be p nall indicate the C Inment.	repared	
-0191.1	BSE - CDSM Conr	nector Wall Final As Bu Nhi Tran	_	Closed	07/27/2011	08/06/2011	08/03/2011	Potential	lly
	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction Compar	Gary Krutsch	Allowered by	·Adamson Asso	ociates, Inc Geor	ge ivietzger	
REQUEST:	FI#T-0191 and Specification		SUGGESTION:		ANSWER: ARUP Respoi	Accept Sug	gestion:		
BBII disagree	es with TJPA's interpretation	of the			Submitting as	-built drawings	orepared by BBII	'DND's	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 254 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

requirements of the Specifications in its Response to RFI T-0191.

Article 1.4F, Section 31 56 13 of the Specifications state: **Record Documents**

- 1. Submit as-built drawings within 24 hours of column installation.
- 2. Note and submit immediately to the TJPA's Representative unusual conditions encountered, including amounts of cement grout overpours during construction.

Article 3.11D2, Section 31 56 13 of the Specifications state:

The Daily Quality Control Report shall include as a minimum the results of the following QC parameter monitoring for each column:

- a. Rig number
- b. Type of mixing tool
- c. Date and time (start and finish) of column construction
- d. Column diameter
- e. Column top and bottom elevations
- f. Grout mix design designation
- g. Slurry specific gravity measurements (obtained from the Testing Agency)
- h. Description of obstructions, interruptions, or other difficulties during installation and how they were resolved
- i. Surveyed as-built of previous day's work in relation to grid

Article 3.3B, Section 31 56 13 of the Specifications state: (emphasis added)

Following CDSM wall construction, the Contractor shall submit as-built drawings prepared by a California licensed surveyor indicating the location of the CDSM walls relative to the excavation alignment.

Article 3.3B of the above provides the only requirement for a survey performed by California licensed surveyor. BBII's proposal in RFI T-0191 exceeded the requirements of Article 3.3B by proposing to submit as-built drawings prepared by a California licensed surveyor at the completion of the CDSM wall at each Zone, rather than at the completion of the entire CDSM scope as the Specifications require.

project staff within 24 hours of installation is acceptable.

As-built drawings prepared by a licensed surveyor shall be submitted as each of the following sections of wall are completed:

- 1. A-line inside Zone 4
- 2. J-line inside Zone 4
- 3. Beale and N-lot
- 4. Fremont Street
- 5. First Street
- 6. A-line inside Zone 3
- 7. J-line inside Zone 3.
- 8. A-line inside Zones 2 and 1
- 9. J-line inside Zone 2 to Grid 10
- 10. J-line inside Zone 1 from Grid 10 to Grid 1 and aridline 1

The drawings for a given section shall be submitted within 14 calendar days of completing that section.



the surface. The response to RFI#T-0192 does not address the soil surrounding the tank. BBII suspects this

current approved Class 1 profile.

soil is contaminated with hydrocarbons in excess of the

Please advise on the classification, limits and disposal

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 255 of 1053 11/05/2013

Time:
Job:

McCampbell Analytical, Inc. - Analytical Report - July

McCampbell Analytical, Inc. - Analytical Report - July

20, 2011 - 1107352 - 8

25, 2011 - 1107352 A - 8

10:53 AM 30100

umber Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please confirm that submitting as-built drawings prepared by BBII/DND's project staff within 24 hours of installation and as-builts of each zone at the completion of the zone by a licensed surveyor is acceptable. BBII will perform additional survey by a licensed surveyor if necessary at areas of concern, to ensure conformance with the project						
requirements.						
-0192 BSE - Unforeseen Tank on Gridline 35	Closed	07/06/2011	07/16/2011	07/08/2011	Potential	ly 🗌
From: Webcor Construction LP Masashi Kojima	To: Turner Construction Compan Daphne Faulkner	Answered By	:Transbay PMP	C Roge	er Rothenbur	ger
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sugg	gestion:		
BBII discovered an unforeseen tank structure during the pre-trenching operation along Gridline 35 between Gridline A-J that is not shown on the contract plans. The tank contains liquid substance; the odor from the excavation around the tank, it is assumed this is a fuel liquid. This tank needs to be removed to allow the continuation of the pre-trenching operation. Please advise as soon as possible.		Gate Tank Re scheduled. Th paperwork fro to schedule th	moval Co and re le TJPA has not m the Golden G	yet received the ate Tank Remov Il discuss further	al Co.	
-0192.1 BSE - Unforeseen Tank on Gridline 35	Closed	07/11/2011	07/21/2011	08/01/2011	Potential	ly 🖂
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Daphne Faulkner			ction Comr Kevi		,
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal	·			·		
REQUEST: Reference RFI#T-0192 and attached photo	SUGGESTION:	ANSWER: See attached	Accept Suggetest reports	gestion:		
The unforeseen tank discovered during the pre-trench operation on Beale Street contains liquid. The liquid has spilled and is present in the surrounding soil, visible from		Report Compl Number of Pa	•	Date - Work Ord	er -	



Page: Date: Time:

Job:

256 of 1053 11/05/2013

10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

methods for the contaminated soil surrounding the tank.	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	O7/15/2011 R TJPA has had consultant, Trefor the undergontents to be determine the proper disposs following responsor of the undergone of the	Required Roger Rothenbur d their environm readwell & Rollo ground storage t e removed, test e extent of the co sal of the soil arc conse has been e area of the US m 0~6ft below g low grade (Soils and stockpile con rea of UST includ JST and 2 feet b rond this area sti odor then remo les taken by TJP	rger nental (Peter Cusack) a tank (UST) and its samples of the montamination, and ound the tank. The reviewed by Mr. (IT were orginally corade and Class II Management Plantaminated soils in ding 2 feet along to below the UST. ill have a strong give those soils as PA environmental	Impact Irrange S naterial, d the e Cusack. classified from in figure in the the gasoline well.	Proceed
T-0192.2 BSE - Unforeseen Tank on Gridline 35 Closed	will be chemic 5. The results approximately 6. Maintain th classifiecation given by TJP, 7. Backfill the contaminated	cally tested for costs of these tests of these tests of y 2 weeks (July ne contaminated in is complete and A at that time. The open trench/hod material description clean suitable of these sources.	Thursday July 14, different contamin will not be availab 28, 2011). If stockpiles covered further direction ole from which the libed above has be material as define 08/15/2011	ents. ele for ed until ns are e	
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Gary Krutsch			uction Comr Kevi		''y

REQUEST:

Reference RFI#T-0192.1

Co-Author: Balfour Beatty Infrastructure, Inc.

The Analytical Report for the sample taken from the soil around the Underground Storage Tank (UST) has been

Ural Yal

SUGGESTION:

ANSWER: Accept Suggestion:

Treadwell and Rollo Response -

Based on the attached analytical results, the soil excavated from the tank removal activities is



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

257 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	<u>Subject</u> <u>Status</u>	us	Date Created	Date Required	Date Answered	Cost Impact	Proce		
determined was	e soil classification the not listed in the resp rt. Please advise on t	oonse, nor the				considered Class II material and should be dispose of as Class II material using the established soil handling procedures.			
T-0193	BSE - CDSM	Buttress Connector Wall	Clos	sed	07/07/2011	07/17/2011	07/08/2011	Potential	ly 🗆
From: Webcor C		Nhi Tran	To: Turner Construction Compan Daphne F	aulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, li	nc. Ural Yal							
REQUEST: Reference Spec	ification Section 31 5	56 13	SUGGESTION:		ANSWER: ARUP Respor	Accept Sug	gestion:		
upon the initial r to meet the sper permeability. Di mixes / methods 1) Single Phase cement treatmer ~1.4 a. Based on Jap 2) Two Phase (c	esults of the Zone 4 cified compressive st ND is currently plann is in the CDSM Buttre (down and up with gont, 220% water/ceme chanese experience down with water, up we treatment, 70% water	ning on trying 2 new ess Connector Wall: grout only) - 275 kg/m3 ent, specific gravity with grout) - 265			columns and r		ests from the cor nation of accepta		
CDSM Buttress meeting with the approach is acc the CDSM Buttr mixed in the eve	ess Connector Wall vent that it does not ac ength of 90 psi at 28	BBII's July 5, 2011 eves that this Genector Wall and will not have to be re-							

T-0194

BSE - Unforeseen Buried Obstructions at CDSM Connector Wall in Zone 4

Closed

Roger Rothenburger



BBI discovered an 8" utility line during the installation of

utility indicated in the attached pictures is not shown on

the BSE contract drawings. The alignment (North to South

the wheel wash on the west side of Beale Street. The

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

means and methods. Maintain records of labor,

equipment, materials for removal. Inform TJPA

work.

Representative of the methods chosen before starting

258 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author: Balfou	ır Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Section 31 56 13, attached sketches, and photo During the installation of the CDSM Connector Wall at Zone 4, DND's drill rig hit unidentified buried obstructions at approx. 14' - 15' below the original grade (El. 0 ~ -1). Please see DND's attached sketch for further details. The exact location and composition of the obstructions are yet to be determined but BBII's preliminary findings indicate that they are timber piles that were neither shown on the original contract plans nor found durings without the piles attached the policy of					reasonable a as encounter similar to the wells and rem Fremont sree casing was us	ed was to mobili Viking drill rig us noval of broken out to drill out the sed in this applic	agreed that the oval of the obstruction and auger drill resed for the dewate off piles along 181 area. A 36" diametation. This meeting at approximately	ig ering eter ng was	
					14, 2011 (3 w drilled until 7p in the remaini some wood (v photos attach	ork days after the om exploring the ing rows. The m volume less that led) and a numb	d Thursday mornine site meeting) at CDSM connector aterial removed war a 5 gallon bucketer (approximately ced concrete 3" to	nd r piles ras t - 15	
these obstrumeeting on obstruction obstruc	or the commercial wall carried and control of the properties of th	per the committee ximity of the two rows. The currently ceased eking drill rigs			this material value backfilling of the prepare a form this work or disprocess. BBI specifications and methods 3 work days the backfilling	was inadvertantle the timber pile remail claim as to vertile as to vertile as the timber as the timb	lence TJPA believer y left behind in the semoval zone. BBI why TJPA should give it fair considers a claim outsiders work in accordant ments made as to vard. The drill rig rat the choice of Blolm-DND.	should pay for ration the RFI ce with means equiring	
T-0195	BSE - Unknowi	n Utility on Beale Stree	t West Side	Closed	07/13/2011	07/23/2011	07/14/2011	Potential	lly
From: Webc	or Construction LP	Nhi Tran	To: Turner Constru	uction Compan Daphne Faulkner	Answered By	y :Transbay PMF	PC Roge	r Rothenbu	rger
Co-Author: Balfou	ır Beatty Infrastructure, Inc	. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference a	ttached photos and drawin	g			Remove the o	obstruction in ac	cordance with the	best	



According to the Final FEIS/EIR, specified in the

Specification 01 35 65 as the reference document, the Vibration Impact Criteria, which is the base criteria for the

analysis, is shown in the table 5.21-8 (refer to BBI RFI for

Webcor/Obayashi Joint Venture

Page: Date:

Job:

RFI appears to be in error. This shall be addressed by

The Action Trigger Level and Maximum Allowable

peak particle velocities listed in Table 1 in

others.

259 of 1053 11/05/2013

30100

Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed direction) of this utility appears in conflict with the CDSM wall. On 7/12/2011. BBI was able to confirm that this utility is not active. This utility will need to be removed during the pre-trenching operation, to avoid conflict with the CDSM. Please advise on the method for removal of this utility line. T-0196 BSE - CDSM Shoring Wall Installation Sequence Zone 4 North of A-Line Closed 07/20/2011 07/30/2011 07/26/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Metzger Ural Yal Co-Author: Balfour Beatty Infrastructure, Inc. REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Sheet GT-2201 and Specification Section 31 ARUP Response: This is acceptable. Contractor to exercise care to See Note 1 on Sheet GT-2201. DND is concerned that if prevent the auger from hitting the soldier pile while the row of buttress connector columns (A/26.5 - A/30) achieving the column overlap shown on 9/GT-5101. immediately adjacent to the shoring wall is installed prior to the shoring wall, the shoring wall will not meet verticality and tolerance specifications due to a difference in strength of the soil on one side and the CDSM on the other side. BBII believes that it will be possible to install the buttress connector columns after the shoring wall without hitting the shoring wall beams. Is it acceptable to install the shoring wall prior to the immediately adjacent buttress connector columns? T-0197 **BSE - Maximum Allowable Vibration** 07/20/2011 Closed 07/30/2011 08/12/2011 Potentially From: Webcor Construction LP Nhi Tran Answered By: Adamson Associates, Inc George Metzger To: Turner Construction Compan Daphne Faulkner Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Reference Specification Sections 31 09 13 and 01 35 65 The table reportedly from the FEIS/EIR included in the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 260 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

table).

The vibration impact criteria used in the Final FEIS/EIR contradicts the Maximum Allowable Movement for the vibration (PPV) specified in Specification 31 09 13. In this specification section, the maximum allowable movement for vibration and the action trigger level is described in Table 1 (refer to BBI RFI for table).

Please clarify where within the project site the vibration impact criteria for fragile structures are applicable (according to Specification 01 35 65), and where the maximum allowable movement for vibration of 1 inch per second is applicable (according to Specification 31 09 13).

specification section 31 09 13 are for separate, transient vibration events rather than continuous construction vibration. It is not known if the values shown in the FEIS/EIR table are intended for transient or continuous events.

The Action Trigger Level and Maximum Allowable peak particle velocities listed in Table 1 in specification section 31 09 13 apply to all structures around the site where vibration monitoring will occur. In drawing up these values we have taken into account the types of plant likely to be employed in construction and the very low probability that the natural frequency of the input vibrations will approach those of the surrounding buildings and utilities.

The RFI question regarding the identification of "fragile structures" shall be addressed by others.

URS - Response by Alana Callagy 8/11/2011

The table in the FEIS/EIR included in the RFI is in error. The table cites the FTA as the source of the potential impact thresholds for vibration. However, the table used in the FEIS/EIR appears to have reversed the FTA's threshold levels. The RFI should cite Table 12-3 (page 12-13) of the FTA's Noise and Vibration Manual

(www.fta.dot.gov/documents/FTA_Noise_and_Vibratio n_Manual.pdf).

FTA Table 12-3 is for potential structural or architectural building damage, which is generally a function of Peak Particle Velocity (PPV), not a time-averaged level. These criteria should be applied to both transient and continuous construction events. Furthermore, the PPV value should be presented/evaluated as the vector sum of the PPV values in the three orthogonal coordinate directions (vertical, transverse, and longitudinal or x,y,z).

The FEIS/EIR called out "fragile structures" however when we reviewed the table (after first identifying that the table should be inverted to be consistent with the FTA's manual) it may be assumed that "fragile" would



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

261 of 1053 11/05/2013

Proceed

Time:

10:53 AM 30100

JOINT VENTURE	30100 - Transbay Transit Center Project									
Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact				
					mber and mason ble 12-3, a little m					
			detailed disc Class I: buil as factories open chann	cussion is as follo dings in steel or , retaining walls, els, underground		ete, such vers, unnels				
			concrete, wa retaining wa with mason 0.3 PPV in/s	alls in concrete of alls, underground ry alignments, cosec.	dation walls and floor or masonry, stone chambers and tu onduits in loose m	masonry innels aterial,				
			wooden ceil Class IV: co	lings and walls in	oned above but wind masonry, 0.2 PP sensitive to vibration. 112 PPV in/sec.	V in/sec.				
			of 1 in/sec (being put in relative to the 3 (which rand building cates should be most the building envelop of the floor slab flower to the away from the avoided sind due to building structure of the floor slab flower the away from the avoided sind due to building structure of the floor should available, and building structure of the floor should available of the floor should be floor should	presumably PPV the spec. This value FTA criteria proge from 0.12 to egories). Ideally, neasured as closing footprint, prefiche building, such or within about a he vibration general behalfs and on the company of the vibration general such as a graph of the vibration general such as a progenity of the vibration general such as a progenity of the vibration of the	naximum allowable) came from prior alue seems too he resented in FTA TO.5 in/sec PPV for the vibration value as possible to the reably in the internation as a basement of a foot of the exteriorating activity. Loupper floors should only show elevates an close to the edge the construction acare should be tall coupled with the	r to it igh Table 12- r various les he edge nal or first lor wall cations ld be led values lare not le of the lactivity laken that				

being reported.

being measured and that PPV vector sum values are



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 262 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Turner Cons Co-Author: Balfour Bea		Gary Krutsch Ural Yal	To: Webcor/Obayashi Joint	Ventu Nhi Tran	Answered By	:Turner Constr	uction Comr Kevir	n Chiu	
REQUEST: Refer to RFI #T-0197			SUGGESTION:		the Project EI Table 12-3: C Transit Noise document # F version. For the be considered Section 31 09	S / EIR has a n construction Vibrand Vibration In TA-VA-90-1003 he avoidance of d Action Trigger 113 of the Spec	bration Impact Cr umber of typos. F ation Damage Cr npact Assessmer 3-06) for the corre- doubt, these valu- Levels as defined ification. All the bi	Refer to iteria in ht (FTA cted les shall I in uildings	
					be Category I	with the except	ry shall be consic ion of the followin dered Category III	g	
					177/181 Frem	nont Street			
					530 Howard				
					540 Howard				
					580 Howard				
					594 Howard				
					133 Second S	St			
					141 / 143 / 14	5 Second			
					163 Second				
					171 Second s	st.			
					90 Natoma				
					92 Natoma				
					83 Minna				
					46 Minna				
					12.2.1 of FTA quantitatively	(2006), we exp the potential graite operations of	nmendations at Se ect BBI to assess oundborne vibration n adjacent buildin	on	



However, BBII believes the TJPA's response provides information that is in conflict with the specifications as well as between the two separate responses provided. BBII requests the following clarifications and confirmations:

1. BBII has applied FTA Table 12-3 per [RFI #T-0197]

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

263 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					(PPVequip)=(PPVref) x (25/D)**1.5.		
					for a given ite FTA(2006) an	em of equipmen d D is the short	ce peak particle v t in Table 12-2 of est distance betw pment and the bu	een the	
					FTA(2006) or calibration me		, BBI should carr ground surface in		
					buildings whei 90% of the va Vibration Dam Vibration Impa The Action Tri movement lev	n (PPV equip) is lues given in Ta nage Criteria in a act Assessment igger and Maxin rel for vibration o	monitoring inside s calculated to lie able 12-3: Constru Transit Noise and in FTA-VA-90-10 num Allowable given in Table 1 cory I buildings on	within uction I 003-06.	
T-0197.2	BSE - Maximum A	llowable Vibration - VOID)	Closed	09/12/2011	09/22/2011	09/12/2011	Potential	lly 🗀
From: Webcor Constru	uction LP	Nhi Tran	To: Turner Construction	n Compan Gary Krutsch	Answered By	:Webcor Const	ruction LP Marir		, _—
Co-Author: Balfour Beatty I	nfrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #T-019 31 09 13, and attache		ction 01 35 65 &	(Can't find answer in Co	onstructware)		-			
BBII recognizes and a									



Co-Author: Balfour Beatty Infrastructure, Inc.

REQUEST:

Ural Yal

SUGGESTION:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Accept Suggestion:

ANSWER:

264 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

		30100 - 117	ansbay mans	sit Center	Project			
umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Proce	e
(BBI RFI 147) to the attached map. The attached map indicates PPV values for continuous construction events, based on the surrounding buildings. Please review and verify this interpretation. Please note that this table, as also indicated in ARUP's response, applies to "continuous construction events". 2. As also stated in ARUP's response, BBII's interpretation of Section 31 09 13 is that the limits provided in this section apply to "transient construction events". Therefore, contrary to URS' response, the values provided in this section are applicable to transient construction events. In addition, BBII will apply Table 1 in Specification Section 31 09 13 for transient construction events to all structures around the site. Table 1 indicates the Action Trigger Level for vibration (PPV) is 1/2 inch per second and Maximum Allowable Movement for vibration (PPV) is 1 inch per second.								
Please confirm the vibration Peak Partic values indicated above are acceptable transient construction events.								
-0198 BSE - Demolition	n Drawings in South-V	Vest Corner of Zone 1	Closed	07/28/2011	08/08/2011	08/25/2011	Potentially	7
From: Webcor/Obayashi Joint Venture	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	y:Turner Constru	ıction Comr Kevi	in Chiu	
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification Section 02 41 0	1			See attached 8/25/2011.	Transmittal 140	-02181, sent to \	N/O on	
BBII is requesting a copy of the added s drawings issued to EBI, for the South-W 1.				6/25/2011.				
-0199 BSE - Pile Extrac	ction Method For Grid	Line 35.2	Closed	08/01/2011	08/11/2011	08/15/2011	Potentially	٦
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	y :Adamson Asso	ociates, Inc Geo	rge Metzger	J



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 265 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

Reference RFI#T-0188.2

From: Webcor Construction LP

T-0200

After exposing piles at grid line 35.2 east of Beale Street, BBII intends on extracting these piles as per the method described in RFI#T-0188.2 (BBI 0139.2). This involves backfilling any voids with sand. Please confirm this method is acceptable.

ARUP Response:

08/02/2011

Arup did not respond to RFI T-0188.2. As noted in our response to RFI T-0188.1, we recommend that the procedure for removing the piles east of Beale Street follow the procedure described in our response to RFI T-0146.4 with the exception that backfilling with sand is acceptable.

Answered By: Turner Construction Comp Jack Adams

08/12/2011

Potentially

08/12/2011

BSE - Unforeseen Buried Obstructions - Zone 4 A Line (Gridline 27-34)

To: Turner Construction Compan Gary Krutsch

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST: SUGGESTION:

Nhi Tran

Reference Specification Section 31 56 13, attached photos, and sketch

On Saturday, July 30th 2011, DND's CDSM drill rig encountered unidentified buried obstructions during the installation of the CDSM Shoring wall panel identified by the pile numbers 285-286 at Zone 4 "A" line between Grid "27 & 28". The newly found obstructions are deeper than the previously excavated timber piles.

DND construction initially attempted to drill through the buried obstructions without success. The drill rig was subsequently moved to further east to drill the next available panel. Between 10:30 am and 3:30 pm, DND made eight drilling attempts along the "A" line between pile numbers # 285 and # 300. All eight drill attempts failed due to the similar obstructions encountered within the 13' - 17' depth range below grade. Consequently, the CDSM shoring wall installation along grid line "A" at Zone 4 had to be suspended. DND is able to provide a drill rig to drill out these obstructions and currently this rig is scheduled to arrive Tuesday morning, August 2, 2011.

These obstructions constitute a differing site condition in accordance with Article 3.05 of Section 00 07 00 of the Specifications.

Please provide confirmation and/or direction regarding the

ANSWER: Accept Suggestion:

Per Contract Spec. 31-56-13 Shoring wall by CDSM Method Para 3.2 Pretrenching and removal of Obstructions, Contractor is to " remove any obstructions that might be encountered along the alignment of the walls. The depth and width of trench shall be that required to remove the obstructions from the path of the shoring wall."

This area was to be Pretrenched per Spec and should have been cleared. The Spec calls for fill the voids from pile removal with 300psi CLSM, However; the area in question had CLSM installed of between 1000psi and 1600psi which may be causing this condition.

"Unforeseen Conditions" are covered in Section 00 07 00 (General Conditions) Article 3.05.A.2 and 3.05.A.3 (Unforeseen or Changed Conditions).

Article 3.05.C states,

- C. Differing Site Conditions shall not include:
- All that is indicated in or reasonably interpreted from the Contract Documents or Reference Documents;
- 2. All that could be seen on Site



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

266 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

	Outland			0/2/22	Date Created	Date	Date	Cost	D
umber	Subject			<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Procee
8/2/2011, s	proceed with drilling out these so CDSM installation in this are structions constitute a differing	ea can continue.			characteristic		ially similar or those indicated o uments or Refere		
-0201	BSE - Buttress SI	nift To South		Closed	08/02/2011	08/12/2011	08/08/2011	Potential	ly 🗌
From: Web	cor Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference sketch	Sheet GT-2201, RFI#T-0151,	and attached			ARUP Respo	nse:			
the east as discussion Team Coo for the But	ase to RFI T-0151, the Buttress long as it doesn't shift to the ss with Arup in last week's TGO: rdination Meeting (7/27/2011), tress to shift to the south per the case confirm.	south. Per 3 BSE Design it is acceptable			The shift show	vn on the sketch	is acceptable.		
-0202	BSE - Pile Extract	tion Method For Grid	Line 33.5	Closed	08/04/2011	08/14/2011	08/12/2011	Potential	ly 🖂
From: Web	cor Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author: Balfo	our Beatty Infrastructure, Inc.	Ural Yal							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	RFI#T-0146.2						der placing the ste		
BBII intend	sing 5 piles at gridline 33.5 wes ds on extracting these piles as scribed in RFI # T-0146 2,				•	•	tain the material uoughing into the	indei	
with the sa BBII will pe	Il extract the wood piles with vil me stroking procedure without erform dewatering enough to be er to the pile.	steel casing.			same stroking	procedure with tering enough to	oratory hammer, wout steel casing. En be able to conne	BBII will	
7. BBII will	backfill the void with low stren- ncrete Mix FOA100CX (RFI #T						CLSM low strength FOA100CX (RFI		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeel/Obayasiii 90iiit Ventare

Page: Date: 267 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subiect Status Impact Proceed 8. BBII will backfill the piles. 0138.1). Option: Back fill the pile voids using a tremie pipe of Answer: minimum length 20ft attached to the concrete bucket. Per Brian Dykes, this work is authorized to proceed. The tremie shall be inserted as far into the pile hole as Allowable work hours will be established after 199 possible prior to pouring the concrete, and the Fremont pile extraction begins." concrete shall be placed using normal tremie techniques. BBII will make efforts to pour the material This involves backfilling any voids with 1 sack sand. The into the void as possible, but BBII is not responsible to attached drawing indicates the location and quantity of eliminate void completely."(RFI 146.4) piles to be extracted. Please confirm that this method is acceptable. Recommends that the procedure for removing these Also, please advise if any work hour restrictions apply. piles follow the procedure described in Arup's response to RFI T-0146.4. Optional is to use method from RFI 188.2. Sand can used for back fillings instead of the low strength material described in RFI#T-0146.4. T-0203 **BSE - Clearance From Verticals For CSL Tubes** 08/04/2011 08/14/2011 Closed 08/09/2011 Potentially From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Sheet GT-5202, Specification Section 31 63 ARUP Response: 29, and attached photo The longitudinal bars on each side of each CLS tube shall be shifted so that the clear distance between a In the Phase 1 DFOW Buttress Rebar QC Meeting at given bar and the CSL tube is 3" minimum, 4" Harris-Salinas Rebar's vard in Livermore on 8/01/2011. maximum. The total number of bars which will be ARUP suggested moving the adjacent vertical bars away shifted is 8. from the CSL tubes to allow for approximately 4" of concrete cover along the entire length of the shaft. Please confirm.

T-0204 BSE - Tie Backs Along 535 Mission Street - Vacant Lot

Closed

08/14/2011

08/10/2011

Potentially

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Gary Krutsch

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

REQUEST:

SUGGESTION:

Answered By:Turner Construction Comr Jack Adams

ANSWER:

08/04/2011

Accept Suggestion:



Welding which is the type of welding that Harris-Salinas Rebar is using for the hoops. Caltrans has a written specification for Resistance Welding. Per Caltrans Standard Specifications Section 52, four (4) samples out of a lot of one hundred fifty (150) are taken to the lab for testing. If three (3) or more samples comply with the requirements, the whole lot is accepted. If only two (2)

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

268 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

JOINI VENIU	K E									
ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce	
BBII cannot locat lot on Minna St. of Drawing GT-5103 feet along the Pre backs. This was a 15'-0" +/- 1'-0" de extend into the Pre	described in the Detail 8 3. The BBII crew went to e-Trench and was unable an additional foot more te epth. BBII believes the tie re-Trench limits and plar	Detail 8 - GT-5103 tie backs in the area of the vacant oped in the Detail 8 on Contract BBII crew went to a depth of 17 ch and was unable to locate the tie ditional foot more than the specified BII believes the tie backs do not nch limits and plans to move if there is information to the		8 GT-5103). and sever a to 535 Mission sever a to 545 Mission sever	Subsequent to the back in Minna St. Project . cted to be cautiouring to ensure the prevent interfere	be cautious when installing ensure the Tie Backs are cut back t interference with CDSM				
					ARUP Respo	George Metzger onse: information is av swer to this RFI.	/ailable. Turner c	or PMPC		
0205	BSE - Testing We	ld On Hoops		Closed	08/05/2011	08/15/2011	08/09/2011	Potential	lly 🗌	
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered B	y: Adamson Asso	ciates, Inc Geor	ge Metzger		
o-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal								
REQUEST: Reference Sheet 63 29	GT-5202 and Specificat	ion Section 31	SUGGESTION:		ANSWER: This is accep	Accept Sugg table.	gestion:			
	3.3.B.4, "Inspect welding ince with AWS D1.4."	as required by								
when approved b qualification test	, "Other welding process by the Engineer, provided requirements not covere is are satisfactory for the e obtained."	that any special d here are met to								
As of this writing,	the AWS does not cove	er Resistance								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

269 of 1053

Time:

11/05/2013 10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

samples comply, one (1) additional test of four (4) samples out of the same lot is allowed. If any of the four (4) fail, the whole lot is rejected.

It was agreed upon in the DFOW meeting this week (8/1/2011) that it is acceptable to test the lots per Caltrans Standard Specifications. Please confirm.

T-0206 **BSE - Smart Hoops For CSL Tubes**

Nhi Tran

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

From: Webcor Construction LP

REQUEST:

T-0207

Reference Sheet GT-5202. Specification Section 31 63 29, attached photo and sketch

Drawing GT-5202 shows four (4ea) 4" CSL tubes equally spaced around the perimeter of the shaft tied to reinforced steel.

Approved rebar shop drawing shows a square spider designed to serve two purposes:

- 1. To allow the tremie pipe to pass through.
- 2. To keep the CSL tubes equally spaced around the perimeter per Drawing GT-5202.

In subsequent discussions the engineer suggested orientating the CSL tubes at a 23 degree angle from the longitudinal center of pile. In the Phase 1 DFOW Buttress Rebar QC Meeting on 8/1/2011 Harris-Salinas Rebar suggested using "smart hoops" to keep the CSL tubes in place and symmetrical around the perimeter at 23 degrees since the square spider could no longer be utilized for CSL tube alignment. This suggestion was well received by meeting attendees. Please confirm that the 23 degree CSL spacing is required. If so, please advise if the added "smart hoop" CSL alignment bars are acceptable?

Closed

08/15/2011

08/09/2011

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER:

08/05/2011

Accept Suggestion:

The 23 degree CSL spacing is required. The added "smart hoop" CSL alignment bars are acceptable.



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

270 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

				•		-			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	y: Turner Constr	uction Comr Gary	Krutsch	
Co-Author: Balfour Be	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Speci	fication Section 02 41 01	1			Fiber was cor	nfirmed de-ener	gized on 8/12/11.		
structures confirr Street 8/07/2011 work. On 8/08/20 walk-through on that all PG&E uti de-energized and fiber optic cable l optic cable is in of CDSM wall and E	duled to have all the utility med dead on the East signals as part of the phase 1 Fig. 1, W/O and PG&E conflictives and structures have a bandoned. PG&E discussed abandoned. PG&E discussed abandoned and causing Buttress work commenced adate this fiber will be conflicted.	de of Fremont PG&E relocation aducted a USAR If and confirm be been confirmed covered a live To. This fiber delays to the ement.							
T-0208	BSE - Long Term	Seismic Loading		Closed	08/09/2011	08/19/2011	08/12/2011	Potential	ly
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
55 00	t GT-1110 and Specifica						Corrections provide lated July 27, 201		
Loads shall be co conversation at t Coordination me	onsidered to be long terr the 8/03/11 TG03 Design eting, BBII understands the lower level struts at the	m loading." Per n Team that this note			Note 7 applie Table 7 (301 and conseque level of struts 30. The increa and 8 can be	s strictly to the i Mission buttress ently apply to ca and walings be mental strut load	F-1110 we clarify to no cremental strut loss case shaking an ilculations for the tween Gridlines 2 ds given in Tables ransient, rather the stem.	pads in alysis) owest and 5, 6	
T-0209	BSE - Abutment I	Bearing On CDSM Wall		Closed	08/11/2011	08/21/2011	08/19/2011	Potential	lly
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	:URS Corporat	ion David	l Fyfe	
Co-Author: Balfour Be	atty Infrastructure, Inc.	Ural Yal							

SUGGESTION:



BBII requests confirmation from the CDSM shoring wall

EOR that these imposed loads do not exceed the assumed vertical loads used during original design

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

271 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

embedment.

			30100 - 116	ansbay mans	it Center	Froject			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Reference Sp	ecification 01 53 13				Yes, statemer	nt still applies.			
has been expi should not be bridges spec s that "abutmen	us discussions with URS, Al ressed that the temporary be ar on the CDSM shoring was section 01 53 13, however, its for bridges shall be supping wall." Please advise if this	ridge abutments II. The temporary specifically states orted by the							
-0209.1	BSE - Abutment E	Bearing On CDSM Wall		Closed	09/02/2011	09/12/2011	09/09/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	T#T-0209, Specification Sec	etion 01 53 13,			ARUP Respor	nse:			
supported abu	this RFI are loading condition the are loading condition at are	t the shoring wall					ions demonstrating support the loa	•	
-0209.2	BSE - Abutment E	Bearing On CDSM Wall - F	Follow-Up	Closed	09/13/2011	09/23/2011	09/16/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF and attached	T #T-0209.2, Specification S sheets	Section 01 53 13,			in the table "S	nse: The results	of the analysis re		
placed on eac proposed tem both the braci	by ARUP, please see the a th individual CDSM soldier b porary bridge abutment. Th ng self weight and the comb ne temporary bridges.	peam beneath the e loads include			indicates that, soldier pile is need to decre the load per p Contractor sha	for a number of too great and th ase from 4'-0" o ile. Subsequent all demonstrate	f locations, the lo at the pile spacin .c. to 2'-0" o.c. to	ig will reduce	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 272 of 1053 11/05/2013

Date: Time: Job:

compression or tension. If the early excavations, down to 10 feet below grade at the bridge abutment, show that soil mix falls away easily from the face of the W21

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
analysis.									
T-0209.3	BSE - Abutment	Bearing On CDSM Wal	I - Follow-Up	Closed	09/13/2011	09/23/2011	09/28/2011	Potential	ly 🗌
From: Webcor (Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour B	Beatty Infrastructure, Inc.	Ural Yal							
As requested by placed on each proposed temp both the bracing live loads of the BBII requests of EOR that these	#T-0209.2, Specification heets by ARUP, please see the an individual CDSM soldier to be soldier to be seen to be seen the seen that the come temporary bridges. Confirmation from the CDS imposed loads do not except loads used during original contents.	attached loads beam beneath the ne loads include bined dead and SM shoring wall acced the	SUGGESTION:		point loads as imposed loads recommend the provided for each the all the affe wall. A vertical be used to call spreader bean given. 2. The allowabt soldier piles on an excavation	wall cannot accimplied by the standard from the cross at a spreader bach bridge abut cted W21x201 spring constanculate the pile representation arrangement of the basis of 1 of 10 feet below	cept the widely vasubmitted tables s-lot bridges. We seam arrangemer ment and is connicted in the control of the cactions under significant of 1150 kips/indeactions under significant of the range of the bridge deck for above is 90 kips/w grade and can be/pile at 60 ft elevir	of Int is lected to lecte	
					wall to carry the condition, will a may require did into smaller coat the later sta 4. The load parabutment into across 2 interfiground. The slinterface canning wall to condition the slinterface canning may be sometiment of the slinterface canning may require the condition of the slinterface canning may require the slinterface canning may require the condition of the condition of the slinterface canning may require the condition of t	e maximum loareduce as excar sassembly of the samponents in or ges of excavati thway, from the the ground, is in aces: steel/soil near transfer ac	e bridge deck at the direct shear training and soil mix/cross the steel/so I with accuracy, in	on crane This rane from site ne nsfer lin-situ il mix	



(J/27-33.5)."

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

11/05/2013

273 of 1053

Time:

Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					be very low inc		erface shear is lik owable capacity o -evaluated.		
0209.4	BSE - Abutment E	Bearing On CDSM Wall - F	ollow-Up	Closed	01/09/2012	01/19/2012	01/16/2012	Potential	ly 🗌
From: Webcor 0	Construction LP	Kirk Nielsen	To: Turner Construction Compar	n Gary Krutsch	Answered By	Arup	Kevin	Clinch	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference T-02	209.3, Specification Section	n 01 53 13			Arup cannot p		se to this RFI with	nout	
pile loading CR movement plea the bridge abut	response T-0209.3, subse T-025 during which there use confirm the revised dire ment atop the CDSM wall edification section 01 53 13	was little to no ection to install at all streets					he bridge bearing vised calculations		
0210	RSF - Pile #498 To	op Of Pile Elevation Issue		Closed	08/16/2011	08/26/2011	08/19/2011	Potential	lv 🖂
From: Webcor (Nhi Tran	To: Turner Construction Compar				ociates, Inc Georg		.,
	eatty Infrastructure, Inc.	Ural Yal	Turner Construction Compar	T Gary Trateon	·	-7 (441110011 7 (500	olates, me Georg	go Motzgor	
REQUEST:	,,		SUGGESTION:		ANSWER:	Account Curry	maatiam.		
Reference W/C	NOTICE0010 (attached), on Section 31 56 13	Sheet GT-5101,	SUGGESTION.		ARUP Respon	Accept Suggesse:	gestion:		
Please address BBII's subcontr	s the following information actor DND:	request from			(shown on 16/ this using the t	GT-5101) is +/- top of pile eleva	ottom of pile eleva 1'-6". In order to valid tion as the measu er with the length of	verify ure, the	
with regard to the to the plan drav	ions do not specify an allow he vertical position of the b vings (GT-5101, Note 16). olerance for the beam tip e	eam tip relative Please clarify			piles.	an provide Turrie	er with the length t	or the	
high. The beam 1/2" long. It was +16'-11" which	eam 498 (BBII ID #287) wan was measured prior to see set to a top elevation of a calculates a tip elevation of the dip elevation is -81-0" in	etting to be 97'-5 approximately of approximately -							



From: Webcor Construction LP

Nhi Tran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Answered By: Adamson Associates, Inc George Metzger

274 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Γ-0211	Easement Inform	ation		Closed	08/11/2011	08/21/2011	08/23/2011	Potential	ily 🗌
From: Webc	cor Construction LP	Nhi Tran	To: Turner Construction Cor	npan Gary Krutsch	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
1 and X1-1" documents W/O receive Wall Radius Turner on 8, - 3192 OR 1 - Parcel F B - CASFRA_	Email "Fencing Plan at CDSM" from Turner on 8/10/2011 and the enclosed email "Fencing R2-1 and X1-1" and it's attact /10/2011, listed below: 151 easement.pdf BNDY-ALTA_AB3721_15A_R6 (2007 00369409.pdf bomain Fencing Plan .pdf	nd attached ng Plan at CDSM chments from			provided for in Subcontractor hour access to	on contained in to formation. WO s are to ensure to their easemen	he above docum	has 24 cation of	
from and/or	ation contained in the above d does not exist in the current of Please provide a direction o	contract n what W/O and							
our Trade S information. the TJPA ex	Subcontractors are to do with to a line addition please indicate we spects Webcor Obayashi to no	what requirements ow comply with.	1 in a 90 5 1	Olas d	00/45/0044	00/05/0044	00/40/0044		
our Trade S information. the TJPA ex	. In addition please indicate waxpects Webcor Obayashi to no	what requirements ow comply with. Timber Piles At Grid		Closed	08/15/2011	08/25/2011	08/16/2011	Potential	ly
our Trade S information. the TJPA ex F-0212 From: Webc	. In addition please indicate water to not be spects. Webcor Obayashi to not be spects. BSE - Unforeseer cor Construction LP	what requirements ow comply with. Timber Piles At Grid Nhi Tran	Line 33.5 J To: Turner Construction Cor				08/16/2011 ction Comr Kevi		ly
our Trade S information. the TJPA ex F-0212 From: Webc	BSE - Unforeseer cor Construction LP ur Beatty Infrastructure, Inc.	what requirements ow comply with. Timber Piles At Grid					ction Comr Kevi		lly 🗌

To: Turner Construction Compan Gary Krutsch



T-0215

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

275 of 1053

30100

Time: 10:53 AM Job:

30100 - Transbay Transit Center Project

08/17/2011

08/27/2011

Answered By: Turner Construction Comr Jack Adams

08/17/2011

Potentially

Closed

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Reference RFI #T-0188.1, Specification Section 02 41 19, and attached sketch BBII intends on extracting the existing concrete piles located between gridlines 5 and 10 on the south side, using the method approved in RFI#T-0188.1. This involves extracting piles using the vibratory hammer without a steel casing and backfilling the void with structural pre-trench sand. Attached is a drawing indicating the locations of the piles obstructing the CDSM wall. Please confirm that this is acceptable.	SUGGESTION:		ANSWER: Accept Suggestion: This is acceptable for concrete piles which are 16" x 16" square or less and which are located 16 ft or greater from the nearest face of an adjacent building.			or	
T-0214 BSE - Instrumentation Protection S From: Webcor Construction LP Nhi Tran		Closed	08/16/2011	08/26/2011	08/23/2011	Potentially	у 🗌
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction Com	ipan Gary Krutsch	Answered E	y:Adamson Ass	sociates, Inc Geor	ge Metzger	
REQUEST: Reference Sheet GT-5102 and attached shop drawing and BBI sketches BBII is proposing to pour a 2' thick instrument slab per the attached BBII drawings in lieu of the 1' thick concrete slab shown on Drawing GT-5102 to match the overall thickness of the Buttress Temporary Work Platform Concrete Cap. Approved 6000 psi Central Mix #960PC3Z3 (Submittal Item #TZ1010-033001A10) will be used for the instrument protection slab. Please confirm that this is acceptable.	SUGGESTION:		the 1' thick cois acceptable Central Mix # instrument p The reinforci is acceptable soldier piles Block-outs s instruments coordinate lo	thick instrument oncrete slab shoe. #960PC3Z3 is acrotection slab. Ing steel configure. The bars may and the instrument hall be placed in as noted on GT-ocations of block on slab shall be expensed.	protection slab in own on Drawing G cceptable for use it ration shown on S be shifted to clear ent locations.	T-5102 in the section A r the to	

To: Turner Construction Compan Gary Krutsch

BSE - Diagonally Cut Unforeseen Piles at Grid Line 33.5 J

Nhi Tran



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

276 of 1053 10:53 AM

30100

Time:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co Author Delle	us Doodte Jafarada vatura Jan	Heal Val							
	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
	Sheet GT-2103, Specification Suched photos	Section 02 41					3, 3.2, A, which so		
Three (3) pil However, or diagonally c 3). Another broken off u concerns the and will be a	tracted four (4) unforeseen pile les had an average length of 4 ne (1) of these piles appeared but out of it at the bottom (see a pile was only 23' long and appile was only 23' long and photoground (see attached Photoground see attached	5' long. to have 20' attached Photo eared to have oto 1). BBII has ain in ground oring wall			walls and rem encountered a depth and wid	love any obstruct along the alignm th of the trench	g wall and the cut ctions that might be nent of the walls. I shall be that requ the path of the sh	e Γhe iired to	
-0215.1	BSE - Diagonally 0	Cut Unforeseen Piles	at GL 33.5 J	Closed	08/23/2011	09/02/2011	08/30/2011	Potentia	lly
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	RFI #T-0215 and RFI #T-0177, cation Section 02 41 19	Sheet GT-2103			ARUP Respon	nse:			
•							e use of the meth	od	
trenching to proposes fo (BBII 0126) this to be th pile present	of the broken pile is 33' below of the broken pile is not practicallowing the procedure approve to extract this pile. In the future standard procedure when a less an obstruction to the CDSM and needs to be extracted.	al. BBII d by RFI T-0177 e, BBII proposes broken or lost			described in F	RFI T-0177 for th	nis pile.		
Please conf	irm.								
-0216		tress Shop Drawings	•	Closed	08/18/2011	08/28/2011	08/19/2011	Potentia	lly
	or Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Balfoւ	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
	attached revised CIDH Rebar S I, T-0203, T-0205 and T-0206	Shop Drawings,			Arup takes no with the RFI.	exception to th	e shop drawings i	ncluded	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

277 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
on 8/17/2011, it was confirm the finalized via RFI because the approved in a previous 2001A05. Attached are the mall the changes the RFIs. Please confi	Per discussions at the TG03 BSE Design Team meeting on 8/17/2011, it was agreed by Adamson and ARUP to confirm the finalized buttress rebar cage shop drawings via RFI because the shop drawings have already been approved in a previous submittal TG0300-320 / TA1020-				the design cor compliance wi documents. C and dimension correlated at t between the fi documents ale processes and construction; o other trades; a satisfactory m contractor; so documents an requirements does not incre services and of	ncept of the pro ith the informationtractor is results which shall be the job site; cheeld, submittal a erting Arup of side techniques; the coordination of and performing anner. This revoluty to comply and did any action short plans and spenses Arup's star- contractor shall	eneral conformance ject and general conformance ion given in the conponsible for quantification in the confirmed and cking for deviation in the contract ame; fabrication in the means and metitis work with that call work in a safe a liew does not modification. This recommendated is subject to the confications. This recommendated is the contract in t	ntract ities s hods of if all and fy eview ope of Arup	
T-0217	BSE - Buttress Sh	nift To The East		Closed	08/24/2011	09/03/2011	08/30/2011	Potentia	lly 🗌
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Compan Ga	ry Krutsch	Answered By	Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	-0183.1, Sheet GT-220 and attached sketch	1, Specification				nse: The propos n are acceptab	sed northings and le.		
to RFI T-0183.1 sh shifting 4" to the w in the 8/17/2011 T	as included in the Engir hows Buttress rows S, 7 yest. Per discussions wi GO3 BSE Design Team	Γ, U, V, and W, ith the Engineer n Meeting, all							

T-0217.1 **BSE - Maximum Allowable Spacing Between Buttress Shafts** From: Balfour Beatty Infrastructure, Inc.

drawing.

parties agreed that the 4" shift is not needed. Please confirm that the 4" shift is not necessary and that it is acceptable to install the Buttress shafts per the attached

Ural Yal

To: Turner Construction Compan Gary Krutsch

03/23/2012

Closed

04/02/2012

03/23/2012

Potentially

Answered By: Adamson Associates, Inc George Metzger



installed underneath the 2' section of the concrete

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

278 of 1053 11/05/2013

Time:

10:53 AM 30100

ımber Subject	Status		Deminer	Date	Cost	_
		Created	Required	Answered	<u>Impact</u>	Procee
o-Author:						
REQUEST: SUGGESTION:		ANSWER:	Accept Sug	raestion:		
Becho requests for ARUP to provide the maximum allowed spacing between the tangent shafts East of P-Line and West of C-Line. Allowing such changes could possibly help mitigate Buttress Shaft schedule.		The tangentia	ll spacing of the m 4 inches to 8	buttress shafts minches east of PL		
			verify that this cations / design.	does not impact th	ne	
		Contractor to clearance at 3	•	is adequate equip	ment	
		coordiantes ir		I northing and east ar to that incuded ordination.		
0217.2 BSE - Increased Spacing Between Buttress Shafts east of P-line From: Balfour Beatty Infrastructure, Inc. Ural Yal To: Turner Construo-Author:	Closed uction Compan Gary Krutsch	04/12/2012 Answered By	04/22/2012 / :Adamson Ass	04/19/2012 sociates, Inc Georg	Potentia ge Metzger	
REQUEST: SUGGESTION:		ANSWER:	Accept Sug	raction:		
Reference: BBII Spacing Sketch		ARUP Respo		ggestion.		
Per the Engineer's response to RFI T-0217.1, "The tangential spacing of the Buttress shafts may be increased from 4" to 8" east of P-line and west of C-line." Please confirm that the revised Buttress footprint and coordinates shown on the attached sketch is acceptable.			cept that the co t appear to refle	oordinates for shaft ect RFI 217.1.	ts A1	
0218 BSE - Timber Lagging Underneath Instrument Protection Slab	Closed	08/29/2011	09/08/2011	08/31/2011	Potentia	llv 🗆
	uction Compan Gary Krutsch			ociates, Inc Geor		
o-Author: Balfour Beatty Infrastructure, Inc.				,	5 5	
REQUEST: SUGGESTION:		ANSWER:	Accept Sug	agestion:		
Reference RFI #T-0214, Sheet GT-5102, and Specification Section 31 56 13 Contract drawing GT-5102 indicates timber lagging being		below the pro take appropri	nse: It is acceptection slab as ate measures to	table to omit the la proposed. Contract to keep any loose repetto the excavation.	ctor to	



REQUEST:

Reference RFI#T-0219 and Specification Section 01 53 13

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Accept Suggestion:

Comments made by PMPC in across the table

ANSWER:

279 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
The original co- instrumentation adjacent buttre pouring the instruction work platform which makes to Please confirm drawing GT-51	n protection slab between postruction sequence fores in protection slab being insigness work platform. BBII is postrumentation slab and the monolithically on Wedneso the timber lagging support in that the timber lagging shape is not required to be insigned in the same of the same o	aw the talled prior to the blanning on adjacent buttress day 8/31/2011, redundant.							
T-0219	BSE - Abutments	At Temporary Bridges		Closed	08/29/2011	09/08/2011	09/15/2011	Potential	ly
	From: Webcor Construction LP Nhi Tran		To: Turner Construction Co	mpan Gary Krutsch	Answered By:Turner Construction Comr Kevin Chiu			n Chiu	
	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST: Reference Specification Section 01 53 13 and Submittal TG0300-201 Item TZ1030-015313A09 response comments (attached) DPW review comment #40 on the temporary bridge submittal (TZ1030-015313A09, package TG0300-201) calls for BBII to "provide concrete approach slabs similar to Caltrans." URS comment #32 on the submittal states that "Approach slabs are recommended. After seismic event, it is important that emergency vehicles still have access to these temporary bridges." Concrete approach slabs are not included as a requirement in the temporary bridge specifications. Please advise if approach slabs must be added to the scope of the temporary bridges.		SUGGESTION:		herein, approato provide a c functional tem	ach slabs are ne pordinated designorary bridge.	Fyfe's response cessary items regn and a complet	quired		
T-0219.1	BSE - Approach S	Slabs At Temporary Bridge	s	Closed	11/04/2011	11/14/2011	11/16/2011	Potential	ly 🔲
	Obayashi Joint Venture	Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:URS Corporati	on Davi	d Fyfe	
Co-Author:									

SUGGESTION:



Reference Specification Section 01 53 13 and Submittal

TG0300-201 Item TZ1030-015313A09 response

comments (attached)

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

In order to evaluate compliance, additional information

is required. Please submit list of all structural steel

members that will be used on each of the three temporary bridges. For each structural steel member 280 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

<u>Number</u>	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
temporary bridge co	s informed by PMPC pordination meeting the oproach slabs were notes.	at contrary to RFI			response to F RFI# T-0219, SF DPW, has approach slat approved by t requirements addressed be agency during	RFI# T-0219. As please note that expressed the post to achieve a phe agency. It is concerning approximent the contra	dered as modifyir an added clarifica the permitting ag octential need for ackage which car recommended th oach slabs be ctor and the perm mit submission o	ation to lency, use of n be at	
T-0220			ining Timber Piles At GL 33.5 .		08/29/2011	09/08/2011	09/02/2011	Potential	ly
From: Webcor Cons Co-Author: Balfour Beatty		Nhi Tran Ural Yal	To: Turner Construction Comp	pan Gary Krutsch	Answered By	Turner Constru	ction Comr Jack	Adams	
•	/ inirastructure, inc.	Ulai fai	SUGGESTION:		ANSWER:		. \Box		
REQUEST: Reference RFI#T-0188.1, Specification Section 02 41 19, and attached sketch BBII intends on extracting the remainder of the existing timber piles located at gridline 33.5J/Beale St., using the method approved in T-0188.1, as the piles are located a considerable distance from the 199 Fremont building. This involves extracting piles using the vibratory hammer			3000E3TION.		We recomme piles east of E described in o	Beale Street folloour response to Folloot to Beackfilling with	edure for removing	the	
structural pre trench	ng and backfilling the sand. Attached is a copiles obstructing the Cothis is acceptable.	drawing indicating							
T-0221	BSE - Salvage Ste	eel At Temporary Bridges		Closed	08/29/2011	09/08/2011	09/30/2011	Potential	ly 🗌
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Comp	pan Gary Krutsch	Answered By	URS Corporation	on Caroli	na Aguilar	
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 281 of 1053 11/05/2013

Time:
Job:

Data

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
<u> </u>							

DPW review of the temporary bridges submittal (TZ1030-015313A09, package TG0300-201) includes comment #8 that states "salvage materials are not acceptable to be used as structural members for the bridges. The temporary bridge specifications do allow for the use of salvage material as follows:

- "2. Steel, Salvage Material: Submit coupon tests for mechanical properties and chemical tests for determination of weldability. For steel materials which are recycled from prior Projects (salvaged materials) and are to be incorporated into temporary works, testing shall be performed on a random sampling basis as follows:
- a. Where material properties relied upon for design corresponding to minimum yield strength fy=30,000 psi, sampling shall be performed on 5% of each major series of structure element type.
- b. Where material properties corresponding to minimum yield strength fy=36,000 psi, sampling shall be performed on 10% of each major series of structure element type.
- c. Where material properties corresponding to minimum yield strength fy=42,000 psi or 50,000 psi is used, sampling shall be performed on 20% of each major series of structure element type.
- d. Testing performed per subparagraphs above at sampling rates of 5%, 10%, and 20%, respectively, shall be reported to the Owner's Representative in writing. Testing results must satisfy all samples meeting 100% of materials strength requirements for acceptance of salvage materials. If less than 100% of materials tested meet this requirement, then the sampling rate shall be increased. In this event, the sampling rate for retesting shall be subject to review and approval by the Owner's Representative."

Please advise if salvage material is still acceptable per the project specifications.

listed:

- 1). Indicate whether the structural steel member consists of new or salvaged material
- 2). Provide the exact location along the bridge that the steel member is located
- 3). Provide information on the salvaged material, such as its current condition, when and where it may be inspected by a TJPA Representative, and what its prior use was
- 4). For each complete temporary bridge, provide the total weight of salvage steel, summarized by element type and usage.

Finally, please provide the weight of total salvaged steel material that will be used at each temporary bridge.

T-0222	BSE - Temporary Bridge Pier Locations
--------	---------------------------------------

To: Turner Construction Compan Gary Krutsch

Closed

08/29/2011 09/08/2011

09/01/2011

Potentially

Answered By: Adamson Associates, Inc George Metzger

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

From: Webcor Construction LP

REQUEST: SUGGESTION:

Nhi Tran

ANSWER:

Accept Suggestion:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 282 of 1053 11/05/2013

Time:

Coct

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
	_						

Reference Specification Section 01 53 13 and Submittal TG0300-201 Item TZ1030-015313A09 response comments (attached)

Temporary bridge review comments (Submittal TZ1030-015313A09, package TG0300-201) call for the end piers on all three bridges to be relocated to avoid interrupting chamfer rebar (see attached markups). With the information provided to BBII in the plans and specifications, there was no indication that this reinforcement must be avoided, nor was there a required clear zone from the shoring wall to the first pier. Please advise if these piers absolutely need to move, or if their current locations can be accommodated. Increasing the span between the abutments and the first pier will have commercial impacts.

Thornton Tomasetti Response: The piers shall not be in conflict with the mat foundation chamfer (chamfer shown in plan and section S1-3201). Minimum clear distance from face of pier to bottom edge of chamfer shall be 2'-0."

Data

Data

-----0/21/2011 Coorgo Mot

8/31/2011 George Metzger ARUP Response: Arup takes no exception to the referenced pier locations that are shown in the submittal.

BSE - Temporary Bridge Pedestrian Barrier Height

Nhi Tran To: Turner C

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

From: Webcor Construction LP

REQUEST:

T-0223

Reference Specification Section 01 53 13 and Submittal TG0300-201 response comments (attached)

DPW review of the temporary bridges includes comment #42 that calls for the pedestrian barrier to be designed as a combination railing with a minimum height of 4'-6" while the specifications only call for a 3'-6" barrier. Please advise if the minimum height must be increased to 4'-6".

08/30/2011

Closed

09/09/2011

09/27/2011

Potentially

Answered By: URS Corporation

David Fyfe

ANSWER: Accept Suggestion:

Response to RFI No.T-0223 is provided herein and on attached sketch titled, "Sketch - RFI Nos.T-0223 and T-0228." This attached sketch is a mark-up of BBII's traffic plan figure, "Non-Working Hours, Temporary Bridge Traffic Plan" (submittal package TG0300-204, submittal item TZ1030-015313, page 3 of 6) because this is the latest presentation of the Contractor proposed product.

This attached sketch shows an installation in conformance with current coordination comments completed between the Project and CCSF DPW and SFMTA. Where the handrail/guardrail system occurs separating pedestrian and vehicle traffic, required height equals 3'-6" measured from the top of pedestrian walking surface.

Note, these comments provided on this attached sketch pertain only to RFI Nos.T-0223 and T-0228, a full review and response of Traffic Plan Submittal



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 283 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

prepared by Verizon.

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					Package TG0 at a later date		finalized and trai	nsmitted	
-0224	BSE - Temporary	Bridge Deflection an	nd Suspended Utilities	Closed	08/30/2011	09/09/2011	09/09/2011	Potentia	lly 🗀
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction C	ompan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Request: Reference Specification Section 01 53 13 and attached cut sheets Where utilities transition from direct bury to hanging under the temporary bridges, BBII believes there must be some allowance for deflection to prevent damage to the conduits during a seismic event. Attached are cut sheets for an expansion fitting and deflection fitting that BBII has seen used in combination at bridge transitions. Watertight flexible steel conduit may be an option as well. Please confirm that all Phase 2 utilities to be suspended below the temporary bridges will include some means of handling bridge deflection.					movement and condition can Movement direction? How much moducation? Are the steel of	e information or d hanger suppo be assessed. ection; lateral of evement is being conduits rigidly of	n the predicted ort system such th	at what hanger	
-0224.1	BSE - Temporary	Bridge Deflection an	nd Suspended Utilities	Closed	09/23/2011	10/03/2011	09/27/2011	Potentia	lly 🗌
From: Webco	r Construction LP	Nhi Tran	To: Turner Construction C	ompan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	- Ш
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #T-0224, Specification Section 01 53 30, and attached e-mails The response to RFI T-0224 requested additional information about bridge movements. This information was provided by email to AECOM on 9/9/11. Follow on questions were answered on 9/15/11. Please see the					confirmed that PG&E) to be s will include me Verizon has in	t all Phase 2 uti suspended belo eans of handling adicated the use	RFI T-0224, it hat lities (Verizon an w the temporary g bridge deflection of O-Z/GEDNE's el conduit type E	d bridges n. Ƴ	
attached ema		and quantity per			along the supp two are aligne	ported section s d. This design	d on each condui staggered such the element will be a documents beir	nat no	



1 deflection fitting per conduit run as previous stated in RFI # T-0224.2. Please confirm only 1 deflection fitting per

Webcor/Obayashi Joint Venture

Webcorlobayasılı John Ventüre

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 284 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					Expansion fitti equal. One fit along the suppersonation two are aligne	ings for rigid ste ting is proposed ported section s d. This design nto construction	of O-Z/GEDNEY el conduit type EX d on each conduit taggered such tha element will be documents being	located at no	
-0224.2	BSE - Temporary	Bridge Deflection and	l Suspended Utilities	Closed	10/05/2011	10/15/2011	10/12/2011	Potential	ly 🗌
From: Webo	cor Construction LP	Masashi Kojima	To: Turner Construction Cor	mpan Gary Krutsch	Answered By	:AECOM Techr	nical ServiceEric Z	'agol	
Co-Author: Balfor	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference F Section 01	RFI T-224, 224.1, CR T-017 ar	nd Specification			Response from		ned) is as follows:		
The respon- readily avail similar AX is	se to RFI T-0224.1 The 4" EX lable (8 week lead time), howe s. Please see the attached dal and advise if this revised mat	ver the very ta sheets for			an acceptable	substitute for the	for 4" steel condune type EX expans ding jumper will sti	sion	
-0224.3	BSE - Temporary	Bridge Deflection and	l Suspended Utilities	Closed	10/24/2011	11/03/2011	11/08/2011	Potential	ly 🖂
From: Webo	cor Construction LP	Nhi Tran	To: Turner Construction Cor	mpan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric Z	agol	- Ш
Co-Author: Balfor	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
Reference (CR T-017R1 and Response to	RFI#T-0224.2				ting per conduit	run as described	in RFI	
	een advise that only 1 deflectiper rigid conduit run, between					sed configuratio	n of deflection fitti supports and othe		
(highlighted	construction drawings attached in yellow) 2 locations A and J itting to be used.				bridge elemer		supports and other	51	
It is not clea	ar from the drawings attached	f PG&E require							



the requested information.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

RFI-0017. ASI-015 was issued for pricing and

implementation on 9/8/11.

285 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

		30100 - 112	ilisbay Italis	Tr Center	riojeci			
ımber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
conduit run between GL A-J is required by	PG&E.				08/31/2011 09/10/2011 08/31/2011 Answered By: AECOM Technical Service Eric 2 ANSWER: Accept Suggestion: Shoring wall changed per the response to BSE 0017. Basis of the AECOM Plans is the pre RI shoring wall. We are planning to issue revision TJPA early next week to address the shoring we change.			
Please provide a drawing showing, the del configuration for individual conduit runs.	lection fitting							
0225 BSE - CDSM Align	ment Conflict With Ex	isting Utilities GL 1-J	Closed	08/31/2011	09/10/2011	08/31/2011	Potential	y
From: Webcor Construction LP o-Author: Balfour Beatty Infrastructure, Inc.	Nhi Tran Ural Yal	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:AECOM Techr	ical Servic∈Eric i	Zagol	
REQUEST: Reference Sheet D-2231, Specification Se and attached photo BBII laid out centerline of the CDSM on Gridline J. The centerline of the shoring in existing utilities PG&E/Water is in direct colocation of the CDSM shoring wall. These to be capped east of the centerline. Drawing D-2231 BSE contract states "Unle otherwise all utilities have been cut and cathe limits of the work by Transbay Transit relocation of utilities" Please see photos Please confirm the status on the relocation utilities.	ridline 1 and dicates that the onflict with the utilities appear less specified pped outside Centre program attached.	SUGGESTION:		Shoring wall of 0017. Basis of shoring wall. TJPA early no	hanged per the of the AECOM P	response to BSE lans is the pre R g to issue revision	FI-0017 ns to	
0225.1 BSE - CDSM Align From: Webcor Construction LP o-Author: Balfour Beatty Infrastructure, Inc.	ment Conflict With Ex Nhi Tran Ural Yal	isting Utilities GL 1-J To: Turner Construction Co	Closed mpan Gary Krutsch	08/31/2011 Answered By	09/10/2011 :AECOM Techr	09/09/2011 nical Service Eric 2	Potential l Zagol	у 🗌
REQUEST: Reference RFI#T-0225 The response received for RFI #T-0225 do		SUGGESTION:		to address the	relocation of ut	gestion: -015 has been crilities impacted bwall resulting from	y the	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 286 of 1053 11/05/2013

Time: Job:

PG&E MH 1348 exists to provide power to 90 Natoma.

90 Natoma is owned by the TJPA and is currently

The 36" demarcation line mentioned in the RFI is an

arbitrary scope division line established between the RUP and BSE packages to differentiate abandon

utility removal between the two packages.

vacant.

10:53 AM 30100

30100 - Transbay Transit Center Project

mber	Subject		Statu	s	Date Created	Date Required	Date Answered	Cost Impact	Procee
Question from RF	FI#T-0225								
Reference Sheet and attached pho	D-2231, Specification atto	Section 31 56 13,							
Gridline J. The ce existing utilities P location of the CE	erline of the CDSM on enterline of the shoring G&E/Water is in direct DSM shoring wall. Thes t of the centerline.	indicates that the conflict with the							
otherwise all utilit the limits of the w	BSE contract states "U ies have been cut and rork by Transbay Trans ies" Please see photo	capped outside sit Centre program							
Please confirm th utilities.	e status on the relocat	ion of these							
0225.2	BSE - CDSM Aliç	gnment Conflict GL 1-	J - PG&E Vault Utility Conflict on Natoma Close	ed	09/12/2011	09/22/2011	09/14/2011	Potential	ly
From: Webcor Co	nstruction LP	Nhi Tran	To: Turner Construction Compan Gary Kruts	sch	Answered By	:AECOM Techr	nical Service Eric 2	<u> </u> Zagol	
o-Author: Balfour Bea	atty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Sec Please refer to RI	F-0017, #T-0225.1, She tion 31 56 13 FI No. T-0017, which re of the CDSM shoring v	evised the			PG&E MH is	located 11" clea er resonse to RI	nation, the existin r of the CDSM sh FI T-0017, please	oring	
Your attention is a 1110, which depict ones to be protected.	also directed to the utilicts the utilities to be abuted in place with respenent. According to U-1	ity drawing U- candoned and the cct to the old			to a live PG& TJPA's Repre	E MH, coordinat esentative to de	orking in close properties of the contract of the contract of the contraction.	ugh ting MH	

Based on BBII's field measurements, the clearance between the PG&E vault on Natoma St. and the centerline

vault on Natoma Street shall be protected in place.

0017.

However, based on the field layout, the PG&E vault on

Natoma St. is in conflict with the southwest corner of the

CDSM wall alignment, which was revised per RFI No. T-



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

287 of 1053 11/05/2013

Time: Job:

Accept Suggestion:

ANSWER:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
distance required b	y the contract plan	s than the 36" typical ns as the minimum lines and the CDSM							
BBII requests the F relocated to a safe revised CDSM wall	distance outside t	toma St. to be the work limits of the							
T-0225.3	BSE - CDSM	Alignment Conflict GL 1-J - PG	6&E Vault Utility Conflict on Natoma	Closed	10/03/2011	10/13/2011	10/20/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Compan Ga	ry Krutsch	Answered By	Turner Constru	uction Comr Kevi	n Chiu	
Co-Author: Balfour Beatt	ty Infrastructure, Ir	nc. Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI #T- Specification Section sketch		231 and ASI-015, attached photos and			RFI, the contra adjacent PG&	prior to receiving actor installed C E vault 1348 with	ng the response CDSM panel #W(thout chipping av standby crew wa	0001 vay the	
BBII in discussions to PG&E vault #13		able to work adjacent			present and o	bserved the inst	allation.		
BBII is currently co	nsidering removing de-energizing the p	g the concrete over power in the vault and trelocating the vault.			of auger may	have broken off to confirm ther	is work the outsic during install of re is no damage	piles in	
Please confirm it is over pour within 20									
Also, please confire at the location clos potential damages.	e to the PG&E val	to install CDSM Wall ult #1348 without							
Please refer to the	attached photos								
T-0226	BSE - Povisor	d Instrument Protection Slab		Closed	09/02/2011	09/12/2011	09/06/2011	Potential	lv 🗀
From: Webcor Con:		Nhi Tran	To: Turner Construction Company Co				ociates, Inc Geo		у
Co-Author: Balfour Beatt			To: Turner Construction Compan Ga	ry MiuleCH	Allaweled by	-Auamson ASS	ociales, IIIC Geo	ige ivietzger	

SUGGESTION:



During a temporary bridge traffic coordination meeting on 8/29/11, SFMTA suggested the use of a 6" elevated

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

traffic plan figure "Non-Working Hours, Temporary Bridge Traffic Plan," (submittal package TG0300-204,

288 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

			30100 - 110	alisbay Italis	Sit Ceriter	Froject			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Reference RFI #T	-0214 and attached sk	etch			ARUP Respo	nse:			
the Instrument Pro	th the engineer, it is acotection Slab per the at revisions to RFI T-0214	tached sketch			This is accep	table.			
them.	o that the top mat will be set W-beam, tie-wired to ds.	•							
Please confirm.									
T-0227	BSE - Buttress A	nti-Washout Admixture		Closed	09/02/2011	09/12/2011	09/08/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered B	:Adamson Asso	ociates, Inc Geor		• Ш
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specific Rheomac product	cation Section 03 30 0 data	1 and attached			ARUP Respo	nse:			
Concrete, BBII wo Washout Admixtu and approved Butt	ndations from both Becould like to propose the re, Rheomac UW 540 tress Primary and Secon review and confirm that	use of an Anti- in all submitted ondary Shaft							
T-0228	BSE - 6-inch Side	ewalk At Temporary Brid	lges	Closed	09/02/2011	09/12/2011	09/27/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered B	:URS Corporati	on David	d Fyfe	
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specific sketches	cation Section 01 53 1	3 and attached			attached sket	RFI No.T-0228 i ch titled, "Sketc	s provided herein h - RFI Nos.T-022 h is a mark-up of	23 and	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 289 of 1053 11/05/2013

Time:

: 10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

sidewalk curb in lieu of the crash rated pedestrian barrier. The crash rated barrier would be relocated to the outside edge of the temporary bridge.

BBII believes this layout has numerous advantages and resolves some concerns as well:

- SFMTA brought up the obvious concern of damage to side mirrors with tall barriers directly adjacent to the traveled lanes. To compensate for this, drivers will shy away from barriers in already tight lanes. Moving the barrier alleviates this problem on one side of the road.
- A barrier between the sidewalk and traveled lanes has a blunt ends that pose a hazard (see sketch). Relocating the barrier eliminates this hazard.
- The area formerly occupied by the pedestrian barrier (approx 14" in width) can be used as extra traveled width for vehicles (distributed per SFMTA's discretion)
- An elevated sidewalk curb will make trestle crossings feel like a typical street crossing, especially for the visually impaired. As such, pedestrians will be more likely to treat the trestle intersection as a true signalized intersection.

SFMTA has indicated that the elevated sidewalk is preferred over a pedestrian barrier. Attached are several sketches of the proposed layout - please confirm this is acceptable.

submittal item TZ1030-015313, page 3 of 6) because this is the latest presentation of the Contractor proposed product.

This attached sketch shows an installation in conformance with current coordination comments completed between the Project and CCSF DPW and SFMTA. As shown on attached Sketch - RFI Nos.T-0223 and T-0228, a handrail/guardrail providing separation of pedestrian and vehicle traffic is required.

Note, these comments provided on the attached sketch pertain only to RFI Nos.T-0223 and T-0228, a full review and response of Traffic Plan Submittal Package TG0300-204 will be finalized and transmitted at a later date.

T-0229	BSE - Concrete Time of Discharge Requireme

Nhi Tran

Ural Yal

Closed

09/16/2011

09/08/2011

Potentially

Co-Author: Balfour Beatty Infrastructure, Inc.

From: Webcor Construction LP

'

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

Accept Suggestion:

Answered By: Adamson Associates, Inc George Metzger

ARUP Response: This is acceptable.

09/06/2011

ANSWER:

REQUEST:

Reference Specification 03 30 01

Per SS 03 30 00, 3.3.D, "Discharge of concrete shall be completed within 1½ hours or before the drum has revolved 300 revolutions, whichever comes first, after the introduction of the mixing water to the cement and aggregates or the introduction of the cement to the aggregates."



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 290 of 1053 11/05/2013

Date: Time: Job:

concrete shall be obtained after 10 % and before 90 % of the batch has been discharged from the truck.

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Per ACI 301 (Section 4.1.2.9), "Time it is desired to exceed the maximum concrete permitted by ASTM C 94C/ request along with a description of the taken."	time for discharge of 94M, submit a							
BBII is planning for discharging conc precautions: As concrete hydration of maximum of 10 hours, BBII suggests concrete shall not be restricted to 11 sustain the requirements of Becho, It replace the 1½ hour time restriction F maximum temperature requirements	an be controlled for a s discharge of hours. In order to BBII purposes to s 3 hours with an 80°							
Please confirm that this discharging Buttress Concrete per ACI 301.	plan is acceptable for							
-0230 BSE - Concre	ete Sampling Location		Closed	09/12/2011	09/22/2011	09/16/2011	Potential	ly 🗀
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constru	ction Comr Kevin	Chiu	
Co-Author: Balfour Beatty Infrastructure, I	nc. Ural Yal							
REQUEST: Reference Specification Section 03	30 01	SUGGESTION:			Accept Sugg	additional costs	_	
Per the Pre-Construction Buttress SI DFOW Meeting on 8/30/2011, BBII p concrete sampling of Central Concre lieu of Zone 4 due to site congestion	roposes to conduct te Trucks in Lot P in and safety concerns.			location from 2		concrete sampling (including, but no s)		
In order to sustain the requirements provide safe disposal of concrete for	sampling, BBII			2011-09-15 Ge	eorge Metzger			
purposes Lot P for all concrete samp	·			ARUP Respon	se:			
Please confirm that this is acceptabl	э.			P provided the accordance wi	concrete is san	mpling the trucks npled and tested andards. For exa	in mple,	



soon as permission is issued by the City.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

291 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0231	BSE - 24-Hour Ins	pection of Buttress Sh	oring Shaft	Closed	09/12/2011	09/22/2011	09/12/2011	Potentially	<i>,</i>
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constru	ıction Comr Kevi	n Chiu	
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specifica	ation Section 03 30 01						available to insp		
DFOW Meeting on 8 TJPA representative Buttress Shoring dri specified inspection shaft cleanliness, ve rebar. In addition, Brepresentative be a	action Buttress Shoring 8/30/2011, Becho requese be available to obser illing operation and to us. This includes: vertice effication of bed rock, echo requests that a Twailable 24 hours of the support and contact in atives.	ests that a ve the 24 hour perform any/all ality of shaft, concrete and TJPA e day to provide					((3,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	, , , ,	
Please confirm that	this is acceptable.								
·-0232	BSE - Buttress Re	d Color Concrete		Closed	09/15/2011	09/25/2011	09/16/2011	Potentially	<i>,</i> [
From: Webcor Cons	truction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specifica 2201	ation Section 03 30 01	and Sheet GT-			ARUP Respon	nse:			
Per discussion with red color concrete ir	the Engineer, it is acc n Secondary Buttress y Buttress Shafts C2, (Shafts C3 and			This is accept	able.			
Please confirm this	is acceptable.								
·-0233	BSE - Internal Bra	cing Design Coordinat	ion with Structural Design	Closed	09/20/2011	09/30/2011	09/23/2011	Potentially	<i>,</i> \Box
From: Webcor/Obay	ashi Joint Venture	Masashi Kojima	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specifica	ation Section 31 55 00					nasetti's respons sed internal brad	e is pending rec	eipt and	
	TG0300-542.1 Interna JPA and the fabrication	0 0			.5.1011 01 10110	moniai bide			



W/O is in receipt of TJPA Submittal Package #TG0300-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

292 of 1053

Time:

10:53 AM 30100

JOINI VEN	TORE		30100 - Trar	nsbay Trans	sit Center	Project			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
structural de	rm the design was accep signer (Thornton Tomase sign for future trade packa	etti) and incorporated							
-0233.1	BSE - Internal	Bracing Design Coordinat	ion with Structural Design	Closed	09/23/2011	10/03/2011	10/03/2011	Potentially	у 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Comp	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference R 02321	FI #T-0233 and TJPA Tra	ansmittal No. 140-					nternal Bracing Dred by TT on 09/2		
related calcu TJPA Transr	approved Internal Bracing ılations was sent to W/O mittal No. 140-02321 - Ap Shoring Wall Permit Draw re.	on 9/22/2011 as proved Internal				ts to this docum racing Design D	ent will be marke ocument.	∌d up on	
RFI #T-0233	Question:								
was approve	bmittal TG0300-542.1 Intended by TJPA and the fabric mission is issued by the C	ation will start as							
structural de	rm the design was accep signer (Thornton Tomase sign for future trade packa	etti) and incorporated							
-0233.2	BSE - Internal	Bracing Design Coordinat	ion with Structural Design	Closed	10/05/2011	10/15/2011	10/10/2011	Potentially	у 🗀
From: Webco	or Construction LP	Masashi Kojima	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author:				-				-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	FI #T-0233, T-0233.1, Suransmittal No 140-02321	ubmittal TG0300-542			Thornton Tom	asetti will be iss	suing comments	to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

293 of 1053 11/05/2013

Time:

10:53 AM

30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542. Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.

---- RFI #T-0233.1 Response -----

TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.

---- RFI #T-0233.1 Question ----

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.

---- RFI #T-0233 Response -----

Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.

---- RFI #T-0233 Question ----

From: Webcor Construction LP

The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City. Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

T-0233.3 **BSE - Internal Bracing Design Coordination with Structural Design**

Masashi Kojima

Closed

10/20/2011

Answered By: Turner Construction Comr Kevin Chiu

10/10/2011

Potentially

Co-Author:

REQUEST:

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

ANSWER: Accept Suggestion:

This RFI contains a statement, not a question and is inappropriate for the RFI process. RFI T-0233.2 will remain closed but unresolved until

10/10/2011

Reference RFI #T-0233, T-0233.1, T-0233.2, Submittal TG0300-542 and TJPA Transmittal No.140-02321.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

294 of 1053 11/05/2013 10:53 AM

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

This RFI shall not be closed until the information / confirmation received from the Design team.

---- RFI #T-0233.2 Response -----

Thornton Tomasetti will be issuing comments to Transmittal #140-02321.

---- RFI #T-0233.2 Question -----

W/O is in receipt of TJPA Submittal Package #TG0300-542 for the internal bracing from which W/O is proceeding per specification section 01 13 00.

W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542.

Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.

---- RFI #T-0233.1 Response -----

TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.

---- RFI #T-0233.1 Question -----

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.

---- RFI #T-0233 Response -----

Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.

---- RFI #T-0233 Question ----

The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City. Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

the requested information is provided.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 295 of 1053 Date: 11/05/2013 Time:

Cost

Potentially

Impact Proceed

Job:

10:53 AM 30100

					Date	Date	Date	
Number	Subject			Status	Created	Required	Answered	Im
T-0233.4	BSE - Internal	Bracing Design Coordina	tion with Structural Design	Closed	10/10/2011	10/20/2011	10/11/2011	Pot
From: Webcor C	Construction LP	Masashi Kojima	To: Turner Construction Com	pan Gary Krutsch	Answered By	y:Turner Constru	uction Comr Kev	in Chiu
Co-Author:								
	#T-0233, T-0233.1, T- d TJPA Transmittal N		SUGGESTION:		ANSWER: Comments w	Accept Sug	gestion: 201	11.
When will the D confirmation for	esign team provide th RFI #T-0233?	ne information /						
This RFI contair inappropriate for	3.3 Response ns a statement, not a r the RFI process. RF out unresolved until the rovided.	T T-0233.2 will						
This RFI shall n	3.3 Question ot be closed until the beived from the Design							
	3.2 Response setti will be issuing co 0-02321.	mments to						
W/O is in receip 542 for the inter per specification W/O is aware the comment on Transubmittal Packat Please confirm to the submittal Please Pleas	3.2 Question bt of TJPA Submittal F rnal bracing from whice n section 01 13 00. ne design team did no ansmittal #140-02321 age #TG0300-542. no design team chang mittal Package #TG0	th W/O is proceeding t review and (DBI's comments) to ges or comments will						
TT is currently re Documents, whi	3.1 Response eviewing the Internal ich was received by T to this document will	T on 09/29/2011.						

---- RFI #T-0233 Response -----

Constructware.

Internal Bracing Design Document. ---- RFI #T-0233.1 Question -----

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in



----- RFI #T-0233.4 Response ----- Comments will be returned by 14 October 2011.

Reference RFI #T-0233, T-0233.1, T-0233.2, Submittal TG0300-542 and TJPA Transmittal No.140-02321.

When will the Design team provide the information /

This RFI contains a statement, not a question and is inappropriate for the RFI process. RFI T-0233.2 will remain closed but unresolved until the requested

---- RFI #T-0233.4 Question -----

confirmation for RFI #T-0233?

---- RFI #T-0233.3 Response -----

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 296 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

				<u> </u>					
mber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	etti's response is pe internal bracing sub								
RFI #T-0233 The BSE submitta was approved by soon as permissic Please confirm th structural designe	Question al TG0300-542.1 In TJPA and the fabri on is issued by the e design was acce	ternal Bracing Design cation will start as City. ptable to permanent etti) and incorporated							
0233.5	BSE - Interna	ıl Bracing Design Coordina	ation with Structural Design	Closed	10/17/2011	10/27/2011	10/18/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y :Turner Constru	uction Comr Gary	Krutsch	
o-Author:									
0233.4, Submittal No.140-02321. Per response to F team were to be r	RFI#T-0233.4, compeceived by Octobe e design team com	ments from the design r 14, 2011.	SUGGESTION:		ANSWER: Comments hattached tran		gestion: O W/O previously,	see	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

297 of 1053 11/05/2013

Date: Time:

11/05/2013 10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

information is provided.

---- RFI #T-0233.3 Question -----

This RFI shall not be closed until the information / confirmation received from the Design team.

----- RFI #T-0233.2 Response ----- Thornton Tomasetti will be issuing comments to Transmittal #140-02321.

---- RFI #T-0233.2 Question ----

W/O is in receipt of TJPA Submittal Package #TG0300-542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542.

Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.

---- RFI #T-0233.1 Response -----

TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.

---- RFI #T-0233.1 Question ----

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.

---- RFI #T-0233.0 Response -----

Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.

----- RFI #T-0233.0 Question ----Reference Specification Section 31 55 00
The BSE submittal TG0300-542.1 Internal Bracing Design



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

This slab is a Cal Trans slab and is located within

TJPA property limits. The slab is not unknown and is shown in the set of Drawings listed in Section 00-03-31 Part 1.2.D.6 (Existing Condition: Buildings and

298 of 1053 11/05/2013

30100

Time: 10:53 AM Job:

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	y TJPA and the fabrication is issued by the City.								
structural design	the design was acceptab ner (Thornton Tomasetti) for future trade package	and incorporated							
T-0234	BSE - Buttress S	haft Post Pour Settlement		Closed	09/20/2011	09/30/2011	09/22/2011	Potential	ly 🗌
From: Webcor C	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Shee 63 29	et GT-2201 and Specifica	tion Section 31			ARUP Respoi	nse:			
Please be inforr observed at But Sunday 9/18/20 a 13' deep unsta After consulting personnel, BBII, hole with concreworking pad. Ac deep hole on Me Please confirm be considered a	med that an uncontrolled tress shaft C2, which was 11. The settlement led to able hole on the buttress with ARUP representativ/Becho Inc. decided to fill ete to mitigate the settlem Iditional concrete was poonday 9/19/2011. It hat pouring additional concrete was poord as a caceptable method, occur during the future in less shafts	s poured on the formation of working pad. e and W/O's field the newly formed then trisk of the ured into the 13'			specified) up to Contract Documeans and mother level of conterminated, are ground surface concrete / wat the surface in the tremie me concrete occu	to the gound suruments. The Corethods necessal oncrete before cond to verify that he is quality concrete plus advance of the thod. If some cours over time, that to the ground suruments.	ncrete (or CLSM, face as specified ntractor shall empry to properly me oncrete placementhe material at the trete rather than trug mixture that risquality concrete consolidation of the enthe top of the surface with conret	I in the ploy the easure at is e the the ses to due to e shaft	
T-0235		n Reinforced Concrete Slab		Closed	09/20/2011	09/30/2011	09/27/2011	Potential	,
From: Webcor C		Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Transbay PMP	C Roge	er Rothenbur	ger
Co-Author: Balfour Be	eatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

While excavating a pre trench at gridline 7.5J close to

attached photos and sketch

Reference Sheet D-2210, Specification Section 31 56 13,



T-0237

From: Webcor Construction LP

Co-Author: Balfour Beatty Infrastructure, Inc.

BSE - Bridge Welding Code

Nhi Tran

Ural Yal

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

299 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

09/26/2011

10/06/2011

Answered By: Turner Construction Comp Kevin Chiu

10/03/2011

Potentially

Closed

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
concrete slab. This and a section of it is CDSM wall. Indicate are grade beams at be encountered und not indicated on con The concrete shown be a concrete driver thick concrete slab Measurements take than this. The attace	Il uncovered an unfore slab is 3ft thick, unco s in the direct line of the ed at this location in d nd pile caps which BB der this mat slab. How that drawing D-2210 n in contract survey slaway and it does not in that BBII are encounten in the field also indicated in the field also indicated in the sis acceptable.	vered at grade the proposed Irawing D-2210 Isl assumes will vever, this slab is theet 5 appears to dicate the 3ft ering. ticate a larger area ng indicate the			ject Plans for t to Beale Street, 2000" lab is acceptable. the slab encountered is mic retrofit work of the ramps. Therefor, ab within the shoring ut ownership of the icated should be				
T-0236	BSE - Unforeseer	n Concrete Section Fo	und at Grid Line 1E	Closed	09/22/2011	10/02/2011	09/26/2011	Potential	lly 🗌
T-0236 From: Webcor Cons		n Concrete Section Fo Nhi Tran	und at Grid Line 1E To: Turner Construction C				09/26/2011 ociates, Inc Georg		lly
	struction LP								lly
From: Webcor Cons	struction LP	Nhi Tran					ociates, Inc Georg		lly
From: Webcor Cons Co-Author: Balfour Beatty REQUEST: Reference Sheet D	struction LP y Infrastructure, Inc2210 (attached), Spe	Nhi Tran Ural Yal	To: Turner Construction C		Answered B	y :Adamson Asso Accept Sug	ociates, Inc Georg		lly
From: Webcor Cons Co-Author: Balfour Beatty REQUEST: Reference Sheet Do 31 56 13, and attace While DND were dr at the locations of poncrete was encoudepth of 9.5ft. The opoint. The concrete 2210. It is in direct must be removed. S	struction LP y Infrastructure, Inc2210 (attached), Spe	Nhi Tran Ural Yal cification Section 29 on grid line 1E nown section of was found at a s unknown at this ontract drawing D- M shoring wall and	To: Turner Construction C		ANSWER: ARUP Respo	Accept Sugnase: uments require constallation of the	ociates, Inc Georg	e Metzger	lly 🗌

To: Turner Construction Compan Gary Krutsch



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

300 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
lumber	Subject	Status	Created	Required	Answered	Impact Procee

REQUEST:

Reference Specification 01 53 30

Temporary Bridge Specification 01 53 13 (1.6H) requires the welding qualifications for the bridges to be in accordance with AWS D1.5 "Bridge Welding Code", however BBII's design was based on AWS D1.1 "Structural Welding Code" as specified in General note 3.2-A4.2 of Sheet SH-0100. BBII and their designer felt AWS D1.1 is more applicable for the temporary bridge structure for the following reasons:

- The members that make up BBII's temporary bridge consists of readily available standard grade mill rolled shapes, comprised of a variety of base metals (A36, A53, A572, A992, A500, and A252) which are joined by simple prequalified joints (fillets). D1.1 provides the flexibility to weld all of these base metals in any combination utilizing prequalified procedures, since they are all in the same base metal group. D1.5 only allows prequalified welding of A709 plate material only.
- BBII's temporary bridge structure contains structural tubing (piers and rails), which D1.5 does not cover tubing
- The bridge as designed has short spans and very simple welded connections. All welds shown are fillet welds (mostly single pass). Additionally there are no complete penetration welds as are typically seen on steel plate girder bridges.
- The life span of these temporary bridges are less than 5 years
- The temporary bridge's intended use and the site specific geometry restraints led to a steel framing design much more similar to a structural steel building than to a typical Highway bridge. The steel columns with angle crossbracing, and the girders and cap beams as detailed are similar to building with columns and floor beams.

The submittal review did not take exception to the general note specifying D1.1. therefore please confirm it is acceptable to submit weld procedures and welder qualifications per AWS D1.1 as specified by the bridge's Engineer of Record.

CII	~~	FST	

ANSWER: Accept Suggestion	:[
---------------------------	----	--

ISI Commentary:

"We have been requested to provide a commentary/discussion regarding AWS D1.5-2002 Bridge Welding Code in reference to RFI #T-0237. The scope of our discussion is limited to an interpretation of D1.5 and not to the design/use of welded temporary steel bridges. The RFI's request by BBII is to accept WPSs/WQTRs to AWS D1.1 rather than to AWS D1.5.

Base Materials: Although D1.5 specifies A709 as the approved steel, it also states that other steels may be approved by the Engineer [D1.5 Section 1.2.2].

Fillet Welding: The RFI states all welding to be fillet welds (mostly single pass). D1.5 state fillet welding may be performed, within given limitations, without performing WPS qualification tests [D1.5 Section 2.8.1].

Welder Qualifications: We note that the qualification requirements for both groove and fillet welds are similar between AWS D1.1 and D1.5 with exception of base metal restrictions.

Engineer's Discretions: See Commentary Sections C1.1.2, C1.2.1 and the "Forward" section of D1.5 Pgs. vii and viii."

9/26/2011 - David Fyfe

See Specification Section 01 53 13, 1.6H;

Welding Qualifications: Qualify procedures and personnel according to the following:

- 1. AWS D1.5/D1.5M, "Bridge Welding Code Steel."
- 2. AWS D1.4/D1.4M, "Structural Welding Code Reinforcing Steel."



exactly as shown, without any room for construction tolerances for both the new and existing wall. Instead of trying to install this section of the CDSM wall according to the detail shown on GT-5101, which would potentially cause damage to the CDSM equipment, DND proposes to

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 301 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

ply with Potentially [evin Chiu	_
Potentially [_ _
٠ ـ ـ	
evin Chiu	_
Fyfe,	
Potentially	_
eorge Metzger	
9-	
tional cost	
tic	onal cost



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

302 of 1053 11/05/2013

Time: Job:

the setting cage (Drawing SC1) is acceptable at the

bar extensions.

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

remove the existing CDSM beams that are in conflict. The contract plan GT-5101 shows two CDSM panels to jog around the existing beam and one offset panel parallel to the new wall.

DND's proposed solution would eliminate the 2 panels in the jog but still maintain the additional offset panel parallel to the wall line. This additional offset panel would act as insurance so a seal is maintained through any deflection caused by the hard in-situ soil mix. This would present a potential cost savings to the project (due to 2 less panels being installed), providing the conflicting beams can be successfully removed.

DND has mobilized a drill rig with an auger to this area to pre-drill the wall prior to the removal of beams. This will substantially reduce the amount of vibration that will be required to remove the beams. DND proposes to utilize the same method at the other wall crossing near Natoma Street. Is this proposed method of removing the existing beams and soil mixing through the existing CDSM wall acceptable?"

these shafts extend beyond planned depth.

T-0239	BSE - Rebar Cage	es for Deeper Buttre	ss Shafts	Closed	09/28/2011	10/08/2011	10/03/2011	Potentially
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction	on Compan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geo	orge Metzger
Co-Author: Balfour	r Beatty Infrastructure, Inc.	Ural Yal						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
REQUEST: Reference Sheet GT-5202 Detail 12, RFI T-0216, and Approved Rebar Shop Drawings					ARUP Respo	onse:		
241' deep sh have already depth after a and 252.7' re with the insta	d rebar cages per RFI T-0210 afts. Rebar cages for shafts been released and fabricate irlifting of shafts C-2 and M-2 espectively. Please advise on allation of the cages for shafts	C-1 and M-1 d. Note that the have been 247' how to proceed s C-1 and M-1			placed up to top of concre extensions sh If the top of th top of the cor	-5201 requires the 1'-0" below the tote is shown on Chall be spliced and fabricated cancrete, no bar expensions of the control	op of the concre GT-5201. Longitus s needed to achi ge is within 3'-0" tensions are rec	ete. The sudinal bar ieve this. of the quired.
and with the	fabrication of the rest of the	cages assuming			The 24" tie st	pacing shown or	ı the shop drawı	ngs at



Please provide direction on how to proceed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

5. The temp fence section and signage shall be moved back on to TJPA property until CDSM wall is

complete.

303 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Γ-0240	BSE - Demo AT&1	Duct on Natoma at	Second	Closed	09/29/2011	10/09/2011	10/07/2011	Potentiall	ly 🗌
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Con	npan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheets U-1110, D-2231, ASI-015, Specification Section 31 56 13, attached email and BBI RFI 222 It was discovered on 9/27/2011 while performing the utility demo for the revised shoring wall alignment (TG03 BSE					AT&T has de-energized the abandon telecommunications lines referenced in the RFI. Proceed with CDSM wall installation at this location following demolition of existing utilities per RUP				
CR T-005B) issued in line servicing the der never fully abandone attached email from never notified that the	n ASI 15 that the aba molished buildings on ed by AT&T. Accordii	ndoned AT&T Natoma was ng to the AT&T was be abandoned			contract docu	ments and exec	ution of a USAR	3.	
Please confirm when in the area. Currently Wall on line 1 and th abandonment is requany project delay.	e confirmation of the	e CDSM Shoring line							
Please also refer to t issue	the attached BBI RFI	0222 for this							
Г-0241	BSE - Brick Wall a	at GL 2, J Line In Cor	flict With The CDSM Wall	Closed	09/29/2011	10/09/2011	10/07/2011	Potentiall	ly 🗌
From: Webcor Const	ruction LP	Nhi Tran	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Turner Constru	ction Comp Jack	Adams	
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specificat meeting minutes and	tion Section 31 56 13 I photos	and attached				er because it is	fencing can be rowned by TJPA		
grid line 2 J, is protru noted in BBII's previo responded by TCCO Refer to the attached	at the job site meeting minutes). V	wall limits, as uestion was ng on 9/6/2011. Vhile attempting			 After remoresection of ten TJPA propert During den fence and sig 	val of this corner op fence and sig y. nolition of this co nage will likely h	section of fence nage shall be pla erner section the ave to move in t	aced on temp	
pavement are founder wall. This condition of	discovered that the feed on this remaining ploes not allow for the to the fence and pati	oortion of brick removal of the			4. The demol		orecaution. shall be expeditored (preferably		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 304 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
						on as possible a	e reinstalled on T fter CDSM wall	JPA	
						uded this scope. orthcoming CR.	These costs will	be	
T-0242	T-0242 BSE - Becho's Request For Rock Classification Data			Closed	09/29/2011	10/09/2011	10/11/2011	Potentia	lly 🗌
From: Webcor Constru	ction LP	Nhi Tran	To: Turner Construc	ction Compan Gary Krutsch	Answered By	:Webcor Constr	uction LP Nhi T	ran	
Co-Author: Balfour Beatty In	nfrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Reference Sheet GT-2 29, and attached letter		ection 31 63			ARUP Respor	nse:			
Please find attached BBII's sub-contractor Becho's letter that requests the following information:					to be drilled ar indicated on p	nd excavated to lan GT-5201": th	se advise, if shafi new depths not le specifications i rings may vary du	note	
" during the drilling o depth of approximately encountered rock form	y 250 feet below grou	und level, Becho			field conditions		PA's Representa		

encountered rock formations of unmeasured hardness. At a depth of 250 feet, Becho's steel grab, used for rock drilling, fractured under the increased stress. Please see attached photos. The incident occurred between the hours of 9.30 am and 10.00 am on Wednesday, 09.28.11. BBII immediately notified W/O and called for an emergency meeting to discuss the hardness of the rock formation and the status of drilling. During the meeting, Arup confirmed and accepted the 250 foot depth to be adequate and sufficient to stop the rock socket drilling. Immediately, following Arup's confirmation at 11.09 am, Becho proceeded to clean the remaining rock debris from the bottom of the shaft and prep for air lifting operation. The total down time recorded as a result of the incident is 68 minutes, not including adjustments of airlift, tremie pipe and repair of grab.

Please advise, if shafts are to be drilled and excavated to new depths not indicated on plan GT-5201. Becho will need to mobilize additional non-conventional drilling equipment to successfully achieve depths currently being directed to drill to (255 ft). In addition, Becho requests that a soil report be generated containing borings pertaining to The Geotechnical Data Report and the Prototype Test Report, included in the Contract Documents as references, provide sufficient information for the Contractor to plan and execute their work.



construction, Becho has excavated deeper than the

elevations shown for boring logs. Becho is requesting soil

samples, boring logs, torque requirements, skin friction

values, and rock strengths be provided for these depths.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

power, torque, and down thrust to advance the

drawings, excavate a hole of both the maximum diameter and to a depth of 20 percent beyond the

temporary casing to the depths shown on the

305 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Zone 4 Butt	ress drilling operations whic	h include rock							
classificatio	n, strength and location."								
- 0243	BSE - Emergeno	cy Exit at 530 Howard GL 1	0 J	Closed	09/29/2011	10/09/2011	10/10/2011	Potential	ly 🗌
From: Webo	or Construction LP	Nhi Tran	To: Turner Construction Compa	an Garv Krutsch	Answered By	:Turner Constru	ction Comr Kevii	n Chiu	
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal	, , , , , , , , , , , , , , , , , , , ,						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Pre-trenchir 530 Howard accessibility for the pre t proceed pas 1-2 days for indicates th proximity to	Ang and CDSM wall installation in the dependence of the emergency exit at the rench and the CDSM wall in the location, the rear exit of each operation. The attache location of the emergency the CDSM wall.	on at the rear of the st on the at location. In order stallation to safely must be closed for ed drawing exit and its			cannot be obt dates are kno	ained without sp	I property manag ecific dates. On hrough Jason Pa 3-8598).	ce the	
-0244	BSE - Request f	or Additional Geotechnica	Data Pertaining To Zone 4	Closed	09/29/2011	10/09/2011	10/11/2011	Potential	ly 🖂
From: Webo	or Construction LP	Nhi Tran	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	- Ш
Co-Author: Balfou	ur Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
63 29 Please addi	Sheet GT-2201 and Specific ress the following informatio contractor Becho Inc.:				indicated by the Report. It is for	of the bedrock i he contour plan or this reason tha	s highly variable in the Geotechnic at the specificatio	cal Data ins	
" for each	of the shafts completed and	d under					avation and drillinate capacity, inclu		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

306 of 1053 11/05/2013

Date: Time: Job:

e: 10:53 AM : 30100

umbe	r <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
(Currently 254 ft below elevation +14.00).			depths shown	on the plans."			
(The requested information is similar to what was provided up to the depths of 234 and 237.5 feet in the "Final Geotechnical Data Report" prepared by Arup dated February 2010, and "Prototype Test Program and Monitoring During Construction of Drilled Shafts" prepared by Arup dated May 2010. Becho requests this information or drilling beyond the depths specified in the Geotechnical Report."							
0244.	1 BSE - Becho Request for Buttress Field I	-ogs	Closed	03/23/2012	04/02/2012	04/24/2012	Potential	ly 🗌
F	rom: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
o-Au	thor:							
ı	REQUEST:	SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
f r s t	BECHO formally requests to obtain the Daily Field Logs rom every ARUP field engineer/geotech/geologist, TJPA epresentative involved with the Buttress Shaft work. More specifically, field notes/logs from engineers and TJPA epresentatives involved with the field data collection, sample collection and inspection process. Becho requests he Daily Field Logs for the following dates: September 12th 2011 through October 20th 2011 February 22nd 2012 through Today			attached to the		ly Field Logs are tion Reports that astructware.	are	
0244.	2 BSE - Becho Request for Buttress Field I	₋ogs Follow-Up	Closed	04/18/2012	04/28/2012	04/24/2012	Potential	ly 🖂
F	rom: Webcor Construction LP David Fields	To: Turner Construction	Compan Gary Krutsch	Answered By	Turner Constru	ction Comr Gary	Krutsch	- 🗀
o-Au	thor:							
) }	After reviewing Constructware as directed in RFI T-0244.1; N/O is unable to locate ARUP field reports for the dates between 9/12/11-9/30/11. Please advise as to the location of the aformentioned documents.	SUGGESTION:		October 1, 201	 Prior to that, he project progr 	first report begin		



From: Webcor Construction LP

Masashi Kojima

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By:Turner Construction Comp Kevin Chiu

307 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0244.3	Becho's 3rd Requ	est for Arup's Field Lo	gs	Closed	07/24/2012	08/03/2012	08/01/2012	Potentially	y 🗍
From: Balfour Beat	tty Infrastructure, Inc.	Ernie Cortez	To: Turner Construction Compar	Gary Krutsch	Answered By	:Turner Constru	ction Comr Stac	/ Wilson	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
documentation Art samples retrieved 9/12/2011 thru 10/	quests to obtain any and up has for logging and of from the Buttress shaft: /1/2011, including all do ty control as specified in	documenting soil s starting cumentation			special inspec logs/test repor	tion website for	ructware or the Is the available fiel . All necessary p	d	
Reference attache	ed Becho Letter BI-0244	l.							
Г-0245	BSE - Ground Cor	nduits detail for PG&E	phase 2 works on First Street	Closed	10/05/2011	10/15/2011	10/12/2011	Potentiall	y 🗍
From: Webcor Cor	nstruction LP	Masashi Kojima	To: Turner Construction Compan	Gary Krutsch	Answered By	:AECOM Techr	ical Service Eric	Zagol	
Co-Author: Balfour Beat	tty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: CR No Utility Relocation	o. T-017 - BSE - First St	reet Phase 2			•	n PG&E (attach	ed) is as follows:		
conduit between the	n of the PGE 6" and PGI he CDSM walls, is grour PIf so, please provide gr nts.	nding of the PGE			suggestion, we jumpers of the bare copper so can be either significantly jumper. All the brought togeth copper wire.	e would propose AX and EX expolid stand #6 co soldered or crimne #6 ground winer and connect The 2/0 copper cadwelded to the	e to tie into the be pansion fittings we pper wire. The # ped to the bondi- res would then be ed to a single ba ground wire woul- ne nearest I-bear	ith a 6 wire ng e re #2/0 d then	
					the AX and EX	K grounding jum	the #6 copper w pers, we will requ can be used in a	iire a	
					asking for grou		sufficient but I ands of the steel of tally cut.		
Г-0246	BSE - PG&E Swee	ep Radius Requiremen	es	Closed	10/10/2011	10/20/2011	10/11/2011	Potentiall	y [

To: Turner Construction Compan Gary Krutsch



material may be sufficient to support the unreinforced

top of the sunken beam.

backfill with low strength concrete.

b. Install lagging between the adjacent beams above the

c. Splice a beam on the top of the sunken beam and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 308 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

10:53 AM 30100

		<u> </u>							
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author: Balfour B	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:	•		SUGGESTION:		ANSWER:	Accept Sugg	ection.		
Reference CR	T-017.		JUGGESTION.		_		requirement is 1	Oft	
Verizon Coordi radius elbows a 6ft radius elbov	drawings provided at the nation Meeting on 9/29/2 and bends. PG&E standaws and bends. Please coor 6" conduit installation Street.	2011) refer to 10ft ards refer require infirm radius			radiae.				
T-0247	BSE - Proposed	I Corrective Action Plan	for Sunken CDSM Soldier Piles	Closed	10/10/2011	10/10/2011	10/12/2011	Potential	ly 🗌
From: Webcor (Construction LP	Masashi Kojima	To: Turner Construction Compar	n Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	_
Co-Author: Balfour B	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Spe	ecification Section 31 56	13			ARUP Respor	ise:			
BBII's sub cont "As of to date, ' below grade du - Beam # 154 ii - Beam # 631, '	s the following information tractor DND: the following three soldieuring their placement into notalled on 09.08.11 installed on 09.29.11 installed on 10.01.11	er piles have sunk			Contractor sha least four wee evaluation by shall assume sunken beam waling and stri	all submit a corre ks prior to the st the TJPA's Repr a range of depth and shall descril utting plan. The	acceptable. The ective action plan art of excavation resentative. The ps to the top of the be the impact on plan shall be locationing to the ection of the e	at for blan e the ation-	
their plan eleva that were alread proposes to condition 1) Wait until material mater	ole to recover those piles ations without disturbing the disturbing the piles. To mitigate the nduct the below course cass excavation commentations, and determine the arms. Information to the Engine corrective action based of saible corrective measurenecessary. The strength	the adjacent beams this issue, DND of remedial action: ces. Excavate with e top elevation of eer for evaluation. n Engineer's es are:			location of the		gg		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 309 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please advise, if the proposed course of remedial action and/or any of the three possible corrective measures are							
acceptable."							
-0247.1 BSE - Proposed Corrective Plan	for the following Sunken Solider Piles	Closed	01/10/2012	01/20/2012	01/12/2012	Potentially	y
From: Webcor/Obayashi Joint Venture Kirk Nielse	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached Corrective Action Plan Message: Please find attached BBII's proposed corrective plan for the following sunken solider piles: 1. Pile #59, Notice #47, Vela Issue #J-00007.			not acceptable should be pro-	e. The content i	a clear question a n the attached do ittal, not an RFI. (247.	ocument	
 Pile #39, Notice #47, Veta Issue #3-00007. Pile #154, Veta Issue #J-00001. Pile #602, Veta Issue #J-00008. 							
Please approve and or comment.							



Reference Specification Section 01 13 50 and Treadwell &

Rollo site maps (attached)

Webcor/Obayashi Joint Venture

Page: Date:

Job:

310 of 1053 11/05/2013 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Treadwell and Rollo response-

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0248	BSE - First St. Ve	rizon Utilities Relocatio	n	Closed	10/10/2011	10/20/2011	01/04/2012	Potentia	lly
From: Webco	or Construction LP	Masashi Kojima	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Transbay PMF	C Rog	er Rothenbu	rger
Co-Author: Balfou	ır Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference S	Specification Section 01 53 13	3				be relocated. T	his RFI was rela		
and located originally scl allow for CD bridge const save time, the their current on the attact the Verizon temporary b will be relocated.	an as-built sketch of Verizon along First St. on 10/4/10. The heduled to be relocated during SM installation and subseque truction. BBII has learned that the TJPA is considering leaving locations and working around hed section of the First St. term telities will be in direct conflicing structure. Please confinated as planned to allow for iring wall and temporary bridge	nese utilities were g phase two to ently temporary t in an effort to ag the utilities in d them. As shown mporary bridge, ct with the m these utilities enstallation of the			installing CDS delays in start Verizon so tha longer have to place to save Street."	M wall with Ver ing PGE is now at PGE work gov install last CDS time on bridge i	izon still in place taking longer th verns duration and SM wall with Veri nstallation on Fir 03.2012 and a fir	. Due to an nd we no izon in est	
Γ-0249	BSE - Pavement	lights at the rear of 580	Howard	Closed	10/10/2011	10/20/2011	10/12/2011	Potentia	ily
From: Webco	or Construction LP	Masashi Kojima	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Turner Constru	uction Comr Kevi	n Chiu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Specification Section 31 56 13				Access to 580 time.	Howard canno	t be obtained at	this	
boundary fer located 4ft a demolished) investigation Please confi	wo lights located on the groun- nce at the rear of 580 Howard way from the brick wall (whice as shown the attached photon in indicates that the lights are of the available to confirm that the	d. The lights are h is due to be os. A preliminary de-energized. ry's electrical			which shows t lights have be unknown entit	hat as of 2PM or en removed and y. verify status of e	eld Photos 11 O on 11 OCT 2011 d wires capped be electrical lines by	the by an	
Γ-0250	BSE - Soil Classif	fication of South West	Area of the Work Site	Closed	10/13/2011	10/23/2011	11/03/2011	Potentia	lly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Turner Constru	uction Comr Kev	n Chiu	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER.	Accent Sug	gestion:		



with the direction to coordinate with the TG03 documents.

& P.

If such documents are available please make available the entire series to include, however not limited to, A, S, M, E,

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

311 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

review.

Note:

		•		•			
umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
BBII needs the soil classification listed and mapped for the lot between Natoma Street and Howard Street, and between Gridline A to Gridline 10. Please see the attached Treadwell & Rollo's Site Mitigation Map of the Soil Classification for the area in question.					e 1. Where enco hazardous waste		
-0251 BSE - Drawings To Coordinate Trestle	Pile Locations	Closed	10/13/2011	10/23/2011	10/14/2011	Potential	ly
From: Webcor/Obayashi Joint Venture Masashi Kojima	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Turner Constru	uction Comr Kevi	n Chiu	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
During the 10/12/11 trestle submittal review meeting, statements were repeatedly made with regard to incrementally complete underground drawings in which to coordinate trestle pile locations. As of 10/13/11, W/O has not received any future package documents accompanied with the direction to coordinate with the TG03 documents. If such documents are available please make available the entire series to include, however not limited to, A, S, M, E, & P.				being asked is o and resubmit the	unclear. Please i e RFI.	rephrase	
-0251.1 BSE - Drawings To Coordinate Trestle	Pile Locations	Closed	10/14/2011	10/24/2011	11/03/2011	Potential	
From: Webcor/Obayashi Joint Venture Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
RFI T-0251 original inquiry:			Thornton Ton	nasetti Reply:			
During the 10/12/11 trestle submittal review meeting, statements were repeatedly made with regard to incrementally complete underground drawings in which to coordinate trestle pile locations. As of 10/13/11, W/O has not received any future package documents accompanied			for exclusion apper requested	zones for trestle I additional TT r	-0130 through Sk and pin pile loca eview. W/O to re ated pile locations	tions, view for	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

312 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

RFI T-0251.1 Clarification to RFI T-0251: The TG03 package was executed with limited documents in which to coordinate future packages with. Please provide all documents the TJPA requests BBII coordinate the TG03 package with and to.

As it pertains to structural columns (round/pill/rectangle/ect.) please provide the minimum clear distance to trestle pile penetrations in the mat slab so BBII may coordinate.

Should there remain any ambiguity in the inquiry above please indicate the nature of misunderstanding.

Penetrations through the Mat slab shall not intersect the hatched zones in the attached sketches. Note hatched zones at and near columns and at side walls.

Any Lower Concourse level penetrations within 3'-0" on either side of primary column lines (e.g. 1.4, 2, ..., 35, V, W, X) will impact construction of primary concrete moment frame beam elements: coordinate with W/O. Block outs in moment frame beams shall not encroach into the hatched zones in the attached sketches.

Coordinate interruptions of lower concourse slabs and secondary framing beam elements with W/O.

24" Diameter columns located 21'-3" west of GL 23 and 21'-3" east of GL 23 along GL D.8 and E.2. extending between mat level and lower concourse level.

Verify construction sequence of Light Column at GL 23 in relation to cross lot bracing and re-bracing; coordinate with W/O.

Penetrations that interrupt Mat reinforcement shall not be placed closer than 3xDia clear spacing between penetrations, with Dia = larger diameter of two adjacent penetrations. Penetrations are those causing interruptions of mat reinforcement in the structure in its final condition. Note especially conflict between pin pile 22 and trestle pile 107 (GL 9), trestle piles 18 and 103 (GL 10), and temporary bridge piers close to pin piles 13 and 14 (GL 34)."

Adamson Associates Note: "The additional A, S, and MEP documents you requested are currently in design progress and the information is not availble at this time."

T-0251.2 BSE - Drawings To Coordinate Trestle Pile Locations - "No Pin Pile Zone" at Lowe Closed 11/04/2011 11/14/2011 11/14/2011 Potentially Answered By:

From: Webcor Construction LP

Nhi Tran

To:



T-0252

BSE - Buttress Rebar Cage Length Adjustment

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

313 of 1053 11/05/2013

Date: Time:

Potentially

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:		Turner Construction Compa	n Gary Krutsch		Adamson Ass	ociates, Inc Geor	ge Metzger	
Trestle Criteria Discuss that PMPC will request pine pile zone" sketche similar to the Sketches response. Also, PMPC to provide criteria of con	formed by PMPC during an Access ion meeting with URS and W/O Thornton Tomasetti to provide "no s for the Lower Concourse Level provided through RFI T- 251.1 is requesting Thornton Tomasetti increte connection details around the future Below Grade Concrete	SUGGESTION:	ANSWER: Accept Suggestion: TT Response: The response to RFI T-0251.1 and the as sketches included criteria for Lower Concestated in the response, BBII is to coordina Concourse framing elements with Webcothe block out at the lower concourse level and methods issue, TT further clarifies the of the block out if it affects the primary more along the column grids as noted below: The primary moment frame girders at the					
				Concourse level are to act as a brace Second level braces are removed as a drawings. If a complete moment frampoured due to conflict with the trestle pbracing elements immediately adjacer will need to remain in place until the blis re-cast and reaches its design stren Alternatively, BBII shall establish anott temporary bracing and submit for revieue.				
T 0254 2	OSE Drawings To Coordinate Tractic	Dile I continue . "No Die Dile Zone" e	J. away Classed	11/28/2011		w Grade Package		
	· ·	Pile Locations - "No Pin Pile Zone" at			12/08/2011	12/13/2011	Potential	ПУ
From: Webcor Construct Co-Author:	tion LP Nhi Tran	To: Adamson Associates, Inc.	George Metzger	Answered B	y: Webcor Const	ruction LP Davi	d Fields	
0251.2 please provide a configurations, dimensi requirements, for both	.2 e as requested in RFI response T- a drawing that depicts the column ons, and minimum clearance he platform and concourse levels. ired to locate trestle piles and	SUGGESTION:		for requested information. for reference and subject t	I Note that these s only, o change. T-0263 response	gestion: ugh SKS-0178 (4 ketches are in pr	ogress,	

Closed

10/19/2011

10/29/2011

10/24/2011



As the only Contract document regarding the Trestle,

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

of conflict between Exhibit A - Attachment 3 and

Specification Section 01-53-13 (Temporary Bridges)

314 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered B	3y :Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
Specification Per the responsion of rebatare deeper the cannot be known Due to this unfabricate cage fabricate all responsion of the rebatar of the rebatar of the rebatar of the responsion of	If #T-0216, #T-0239, Sheet of Section 31 63 29, and attack the section 31 63 29, and attack the section 31 63 29, and attack the section and accommodate but an 240'. The exact length of sown until the drilling of the accertainty, and the long lead as with varying lengths, BBII about the adjacent shaft is knebar cages to a pre-extendent the first adjacent shaft is knebar cage will be adjusted the part of the cost to the structural cage and the CSL tubes to the bottom "structural cage at the first accept the structural rebars will remain the structural rebars will be adove. Please refer to the attack.	hed sketch eds to extend the uttress shafts that the rebar cage djacent shaft. time required to proposes to d length of 260'. hown, the final by cutting the top e desired length. ' section that ain unchanged at section that ljusted as	SUGGESTION:		Detail 12/GT placed up to top of concre bar extension this (as note the fabricate concrete, no	al is acceptable w -5201 requires the 1'-0" below the teste is shown on Considerable splices don the sketch; done cape is within and the cape is within and the cape is within and the cape and the cape and the cape and the cape is spacing shown or the cape (Drawing SC)	rith the following not reinforcing stee op of the concrete GT-5201. Longitured as needed to a cattached). If the table of the top of the stee of the s	el to be e. The dinal chieve cop of he	
and the "setti BBII proposes additional cos payment per o	al shop drawings for the "str ng cage" details. It to accommodate this chan t to TJPA beyond the bid ite drilled shaft lengths.	ge at no							
T 0050	205 7 4 2			A	40/40/0044	40/00/0044	44/04/0044		. —
T-0253	Construction LP	ign Criteria Confirmation Nhi Tran	To: Towns On a facilities On a second	Closed	10/19/2011	10/29/2011	11/01/2011	Potential	ну
	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction Compan	Gary Krutsch	Answered B	y: I urner Constr	uction Comr Kevir	i Chiu	
	achment 3 of Exhibit A of th		SUGGESTION:		ANSWER: PMPC repso	Accept Sug	gestion: othenburger, 11/0)1/11:	
Pursuant to the 2011, Balfour clarification re	attached memo from PB&A te trestle design meeting he Beatty Infrastructure Inc.' (E garding their interpreted des y Access Trestle	ld on October 12, BBII) requests			"review the p or not BBII's requested at	provided informated design criteria is the October 12,	ne appropriate ven ion and confirm w appropriate." The 2011 meeting wa to specific percep	hether e RFI s to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Date

315 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Cost Created Required Answered Number Subject Status Impact Proceed Attachment 3 of Exhibit A of the TG030 Bid Manual has 2. As for the design criteria, the fourth sentence of the following instructions: "Exhibit A - Attachment 3" is explicit; "All requirements in the Temporary Bridges Specification in the contract Documents, SECTION 01 53 13, shall apply to the In the second sentence of the second paragraph, the following statement is made, "For the design criteria for Access Trestle." This would include the requirement in the Access Trestle, the Contract Documents and Section 01-53-13 Part 1.3.A.1 (Temporary Bridges applicable standard shall be referred to." The next Performance - Design Loads) stating the use of sentence states. "All requirements in the Temporary seismic design load for 475 year earthquake Bridge Specification in the Contract Documents, Section (earthquake with 10% probability of being exceeded in 01 53 13, shall apply to the Access Trestle." 50 years). Attachment 3 goes on further to provide very specific 3. Among other criteria, wood decking material, design load conditions and structural elements (i.e. Deck "wheel stops, hand rails, special working access, etc & barrier) that contradict the requirements of the listed in the balance of Attachment 3 modify the Temporary bridge Spec Section 01 53 13. Based on the requirements in Section 01-53-13 and are not more "Trestle Specific" requirements of Attachment 3 and contradictory. the interpreted function, being for construction use and not public use, of this type of temporary works structure, BBII 4. Attachment 3 does not address crash barriers or and its Engineering Team arrived at the criteria /(basis of lateral bracing, among other criteria, which would design) described in the attached memo from PB&A. This defer to section 01-53-13. (Temporary Bridges) document was included with BBII's original design submittal; however for this RFI BBII has expanded some 5. PMPC recommends a small group meeting of the of the explanations. constructing parties to discuss the technical details to meet as many requirements as possible for BBI to get Please review the provided information and confirm approval for Zones 1 and 2 and proceed with the whether or not BBII's design criteria is appropriate for the Access Trestle work in a timely manner." Temporary Access Trestle. T-0253.1 **BSE - Trestle Design Criteria Follow-Up** Closed 11/21/2011 12/01/2011 12/02/2011 Potentially

Nhi Tran

To: Turner Construction Compan Gary Krutsch

Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal

From: Webcor/Obayashi Joint Venture

REQUEST:

Reference RFI#T-0253. Attachment 3 of Exhibit A of the TG03 BSE Bid Package, Specification Section 01 53 13, and attached memo from PB&A

Follow up to RFI T-0253 and the meeting held 11/16/11

As noted in the 11/16/11 meeting, the cross lot bracing "struts" are supported by the Trestle substructure and analysis requires limiting trestle deformations to be

SUGGESTION:

David Fyfe

ANSWER: **Accept Suggestion:**

Answered By: URS Corporation

If the Access Trestle is designed to resist the full 475 year earthquake design requirement with all response being elastic (R=1), then the Access Trestle system is not subjected to inelastic deformation for the design event. If the design is additionally shown to be capable of sustaining significant overload (no connection failures, no weld failures, no member failures, remaining stable under loading corresponding to at least two times the required design load, or



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 316 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

compatible with the allowable strut deflections (approximately 2"). As a result the "push over" analysis as required by the AASHTO Seismic Design Criteria "SDC" (requirement of bridge spec 01 53 13) is not applicable. This was discussed in detail during the 11/16 meeting and it was concurred that due to unique structural configuration and deflection requirements, an alternate analysis method other than the SDC would be required. Discussions were had that a site specific elastic analysis using the 475 year seismic loads that is controlled by the deflection limits of the cross lot bracing would be necessary. Please confirm that a "push over" type analysis of SDC will not be required for the trestle and that the attached detailed Design Criteria (and analysis method) is acceptable.

(W/O added clarification)

BBII believes the site specific analysis would demonstrate the trestle substructure will not deform greater than 2" however the trestle superstructure will deform greater than 2".

corresponding to a ductility demand requiring R=2), then a pushover analysis is not necessary to verify performance. If there are questions raised regarding if this is sufficient, then the response could be demonstration that the system remains fully stable without connection or member failures at a load level corresponding to the deterministic earthquake load corresponding to the maximum event capable of being delivered by the earthquake fault system at the project location. If the design presented is in accordance with the above, then URS would be able to assist with technical engineering discussions to validate this design approach to the City of San Francisco during the building permitting process.

Further clarification: The procurement specification requires an integrated model capturing interaction between the Cross Lot Bracing and the Access Trestle, note the Cross Lot Bracing is not a component against which the trestle reacts but the Cross Slot Bracing delivers load to the Access Trestle. This behavior must be captured with sufficient accuracy and within all project criteria.

If another alternative is proposed that meets all required design criteria at all structure elements, including contractor teams identified maximum allowable deflection of 2 at the Cross Lot Bracing, URS takes no objection to the contractor pursuing this potential design alternative.

T-0254 BSE - Modified CDSM Installation Plan for Verizon Lines at First St.

Nhi Tran

Closed 10/20/2011

10/30/2011

Answered By: Adamson Associates, Inc George Metzger

11/01/2011

Potentially

Co-Author:

REQUEST:

From: Webcor Construction LP

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

Reference Specification Section 31 56 13 and attached sketches from PMPC

W/O received the modified CDSM Installation plan for

ANSWER: Accept Suggestion:

ARUP Response:

The minimum overlap of columns and panels defined in specification section 31 56 13 shall be satisfied full



the phase 2 installation.

Verizon configuration.

- Site meeting with Verizon representative to discuss

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 317 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
Verizon lines at First from PMPC as the at Please confirm the p Wall Designer (ARUI	ttached. lan is acceptable for				depth on each side of the obstruction. The Contractor's means and methods, e.g., rig type, lowering the Verizon lines and protecting the Verizon lines, have not been reviewed as this is the Contractor's responsibility.						
					assume that has reviewed	the subcontracto and approved the	by the Contractor, or doing the work, ne proposed Plate Sealing Detai	OND,			
					demonstrated applied to the flange rather	d in the field. If use excavation - fact than behind the eto apply the pe	g Detail" will need sed, the plate sho se of the steel bea flange and remove rrmananent	uld be m			
T-0255	BSE - Verizon Sp	acing Requirement or	n First Street (Phase 2 Utility Installation)	Closed	10/21/2011	10/31/2011	10/31/2011	Potential	lly 🗀		
From: Webcor Consti	-	Nhi Tran	To: Turner Construction Compan Gar	v Krutsch	Answered B	y :AECOM Techr	nical Service Eric Z	agol			
Co-Author: Balfour Beatty	Infrastructure, Inc.	Ural Yal	·	,				0			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference BBII have commence First Street, in order						work and is in the	nary design drawir ne process of	gs for			
locations and the futuon the attached draw to BBII in the field, plco-ordinated with the	ure Verizon phase 2 ving. The attached dr ease confirm this dra	utility indicated rawing was issue awing has been			Phase II utilit	y relocations is s	-4005, the intent of such that utilities of separated by 1' min	f			
BBII require the follor - Provide a profile/se clearances between - Include (Verizon) Ti	wing: ction drawing indicat PG&E and Verizon,	ting accurate				site meeting with	Representative (T Verizon to discus				



airlift process without having to wait for Becho engineers

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 318 of 1053 11/05/2013 10:53 AM

30100

Time: 1

Job:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0256	BSE - CR T-018	8 Design Omissions		Closed	10/21/2011	10/31/2011	11/03/2011	Potential	ly 🗌
From: Webcor Con	struction LP	Masashi Kojima	To: Turner Construction Compan (Gary Krutsch	Answered By	:Turner Constru	ction Comp Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference CR T-0	18				Emergency Contractor.	egress signage	is not required l	ру	
9/21/11 or the flurr furnished the follow complete the CR T 1. Emergency eg 2. Lighting: Loca lighting is required 3. Gates & crash 4. Although the complete the	press signage requirtion, lumen, schedu? bar requirements? Iriveway design was usions were provide with the fire hydraud or remove from so	ail clarifications ns required to rements? le, and if emergency s not provided until d and there are nt relative to the vent			installed under to the Streetling demolition draw approved by E Muros BLHP along the nort Light #2 instal Owners of botheir exit door 3. Gates and install 10 foot Private Prope 4. Driveway c wide, with the	er EBi contract a ght circuit on Na awing D-1084 (N BLHP (Robert K 415 - 554-1688. h south K Rail fe Il midway of K R th properties haves. Crashbars are n saw horse barrierty - No Trespas urb cut for 540 H centerline place and sidewalk free	cortable street lig and connected over toma as shown OTE This circuit awano and Rom Light #1 install lightence @ 540 How ail fence at 580 lighting or required at this cade with signagus asing.	erhead on EBi ing was an midway vard. Howard. ng at s time - e	
-0257	BSE - Request	to Sonic Caliper 20 feet fr	om Projected Bottom of Rock Socket	Closed	10/24/2011	11/03/2011	10/31/2011	Potential	ly
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Compan (Gary Krutsch	Answered By	:Turner Constru	ıction Comr Kevi	n Chiu	
Co-Author: Balfour Beat REQUEST: Please address the BBII's sub contract	e following informati		SUGGESTION:				gestion: s limited to the fir ates, " Becho v		
analyses within 20 elevation of the ship process. In order to Operation without the hours between Caliper test. For exampletion of shafperform the Sonic	continue the Buttr	d final bottom e "Drill, Place, Pour" ess Drilling b would like to utilize form the Sonic ticipates the be beneficial to he hours of 1am -			like to start pe 20 feet of the shaft(s) to exp Acceptance o 1am-6am will Permit. Pleas activity on the	erforming Sonic projected final be bedite the "Drill, f permissible wo come in the forme be sure to income to income the forme be sure to income the forme to income in the forme to income the forme the form	Caliper analyses ottom elevation Place, Pour" proork activities between of a TJPA Niglude the proposermit application.	within of the cess." yeen nt Noise	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

319 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	uft(s) during normal hours				Arup Respons	se:			
expediting the	"Drill, Place, Pour" proce	SS.			This is accept	able.			
Please advise	, if it is acceptable.								
-0258	BSE - Demolitio	n Status of Pile Cap at G	L 33.5	Closed	10/27/2011	11/06/2011	12/09/2011	Potential	ly 🗌
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction	Compan Gary Krutsch	Answered By	:Turner Constru	uction Comr Kevir	n Chiu	
Co-Author: Balfour	Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sho Section 02 41	eet D-2213 (attached) and 19	d Specification			Existing pile of CR to follow		have not been re	moved.	
caps have alre includes the p	d sections of Notes A and eady been removed. This ile cap at GL 33.5. e C implies that the pile ca	area clearly							
	n that the existing pile cap I within the "triangle" line I 13.								
-0259	BSE - Request f	or approval of alternate b	eackfill compaction inspection	on method Closed	10/31/2011	11/08/2011	12/01/2011	Potential	ly 🗀
From: Webcor	Construction LP	Masashi Kojima	To: Turner Construction	Compan Gary Krutsch	Answered By	:Turner Constru	uction Comr Kevir	n Chiu	· 🗀
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
·	ecification Section 32 12				The proposed receipt of the	methodology w	vill be evaluated p	ending	
compaction in contemporane proposed the #4225-000-00 methodology,	the areas of non-conform spection i.e. FCR #TCB-0 eous compaction inspection methodology described in 238. Please confirm the assuming acceptable resontract requirements.	0246: In lieu of on by ISI, BBII has attached letter alternate			Submit test re	esults for review	and evaluation.		



Reference RFI #T-0260 and Sheet U-3012 (attached)

RFI response T-0260 does not address the issue request

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

320 of 1053 11/05/2013

Date: Time:

Job:

The contractor shall control storm water in accordance with specification 01 15 61 and approved submittals.

10:53 AM 30100

Number S	ubiect			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	SE - D.I. Installat	ion at Natoma Street	and First Street	Closed	11/01/2011	11/11/2011	11/08/2011	Potentiall	 у П
From: Webcor Construct	ion LP	Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y:AECOM Techr	nical Service Eric	Zagol	. Ш
Co-Author: Balfour Beatty Infr	astructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U-301: BBII carried out an invest around the perimeter of concern regarding the stilline on Natoma Street by the flow line directs surf direction towards First Stat the intersection of Natoma Street of Stand First St (see sket) Noted during the last rait to the decommissioned corner of Natoma Street recorded approximately accumulating at First St.	stigation of the act the BSE project; a creet elevation related at the only act toma and First Street. The only act toma and First Street. The interest attached). In fall, surface wate catch basin at the and First Street in 6" of standing rain reet and Natoma in the street	ve catch basin nd has a tive to the flow th East ive catch basin eet is CB #305, ne currently ection of Natoma er was directed North East itersection, BBII water			corner of Natin place per F AECOM under decommission with D-2230 II Detail 1 state remain active perimeter should be a coordance Recommend STORMWAT EROSION AN review storm contractor's new storm in accordance review storm contractor's new storm contractor's new storm in place per Feroman s	oma and First st RUP documents. erstands that the ned by BSE con Detail 1 and not is s (E) sewers, Mis cuntil construction oring wall along rations wall along rations wall along rations with the specification section (i.e. ER POLLUTION ND SEDIMENT (water control planethod of address	CB was tractor in accord RUP as claimed. H(s) and CB(s) a on of (N) CDSM northern end of solution the excavatications reference. 011560 I PREVENTION, CONTROL) subn	ance D-2230 re to ite. ion site. ed in the	
Please note that existing decommissioned during Street (see attached material BBII recommends 2 options outside the BSE work at A) modify the flow line of toward CB # 305, B) Install a new catch be lateral connection CB # or connect directly to the Please advise on TJPA on First Street.	the new sewer instrk up drawing). ons to control rainea: n Natoma Street to asin and connect it 305 to the combined existing MH.	water from o direct the flow to the existing e sewer system,							
Г-0260.1 В	SE - D.I. Installat	ion at Natoma Street	and First Street	Closed	11/28/2011	12/08/2011	12/02/2011	Potentiall	у 🖂
From: Webcor Construct	ion LP	Nhi Tran	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y: Turner Constru	uction Comr Kevi	n Chiu	· Ш
Co-Author: Balfour Beatty Infr	astructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 321 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

	Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
		return of this R	tractor			
	Closed	11/01/2011	11/11/2011	11/02/2011		ly
To: Turner Construction Compa	ın Gary Krutsch	Answered By:	:Turner Constru	iction Comr Kevin	ı Chiu	,
						ľ
SUGGESTION:		its subcontract other required If the 540 How provide W/O's issuance of CF	ordinate the local tor(s) such that elements of the vard egress per coriginal egress R T-018) that wa	tion of the offshod it does not conflice project. CR T-018 is an is plan (i.e. plan pri as coordinated wi	et with ssue, ior to	
	·	Closed To: Turner Construction Compan Gary Krutsch	Closed 11/01/2011 To: Turner Construction Compan Gary Krutsch Answered By: SUGGESTION: ANSWER: W/O shall coo its subcontract other required If the 540 How provide W/O's issuance of CF	Per field walk by Turner on 12 return of this RFI, it was obset had installed measures that at this issue. Closed 11/01/2011 11/11/2011 To: Turner Construction Compan Gary Krutsch Answered By:Turner Construction Suggestion of the subcontractor of the local its subcontractor of the local its subcontractor of the lift the 540 Howard egress per provide W/O's original egress issuance of CR T-018) that we	Per field walk by Turner on 12/02/11 and prior to return of this RFI, it was observed that the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed measures that appear to have resonable in the conton had installed in the conton had installed in the conton had in the c	Per field walk by Turner on 12/02/11 and prior to return of this RFI, it was observed that the contractor had installed measures that appear to have resolved this issue. Closed 11/01/2011 11/11/2011 11/02/2011 Potential To: Turner Construction Compan Gary Krutsch Answered By:Turner Construction Comp Kevin Chiu SUGGESTION: W/O shall coordinate the location of the offshoot with its subcontractor(s) such that it does not conflict with other required elements of the project. If the 540 Howard egress plan (i.e. plan prior to issuance of CR T-018) that was coordinated with the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 322 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
-0262	BSE - CAD File for	r trestle/pin pile exc	lusion zones	Closed	11/09/2011	11/19/2011	11/17/2011	Potential	ly 🗌	
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author: Balfour E	Beatty Infrastructure, Inc.	Ural Yal								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference RFI 13	#T-0251.1 and Specificatio	n Section 01 53			TT Reply:		- Ш			
showing hatch placement is n Please provide	to RFI T-0251.1 included a ed "exlusion zones" where ot allowed. the CAD file for these sketting pile locations.	trestle/pin pile			See attached for requested CAD file for RFI No. T-0262.					
-0262.1	BSE - CAD File fo	r Micropile Exclusio	n Zones	Closed	05/17/2012	05/27/2012	05/29/2012	Potential	ly 🔲	
From: Balfour E	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
REQUEST: Reference: Specification 31 63 33 RFI T-0262 Please provide the CAD file for Micropile "Exclusion Zones," if they differ from the exclusion zones subjected to					262 do not ap Please refere coordination of	n zones provided oply to micropiles nce IFB - Below	I in response to I s (detail 1/S1 - 3 Grade package ut and submit m	003). for cropile		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

323 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0263	BSE - Strut Cor	BSE - Strut Conflicts to Thornton Tomasetti's comments on the approved Internal			11/09/2011	11/19/2011	 11/17/2011	Potentially	 y
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associate			ociates, Inc Geo	rge Metzger		
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF	T #T-0251.1 and Transmi	ttal No. 140-02329			TT's response	to RFI No. T-02	263:		
internal bracin Tomasetti's co Transmittal #1 dimensions ar the location of included in the may accuratel mitigate confli	o W/O's receipt of an apping submittal and procurent omments in the plans trans 140-02329 added both condition revised column configuration from the internal bracing struttle base contract BSE documents of the internal bracing struttle coordinate strut location icts, please provide the min column to strut.	nent, Thornton Insmitted via Ilumns & Ilumns relative to Is not otherwise Iluments. So as W/O Ins in order to			This is a mea clearance req		topic. GC to co	ordinate	
T-0264 From: Webcor	BSE - Bridge / T	Frestle Piles in Exclusion Nhi Tran	a Zones To: Turner Construction Compan Gar	Closed	11/09/2011 Answered By	11/19/2011	11/18/2011 ociates, Inc. Geo	Potentially	у 🗌
	Beatty Infrastructure, Inc.		14. Tamor Constituent Compani Car	y ratioon	,	-7.1001171001	odiates, ine eco	ge Metzger	
REQUEST:	•		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RF 13	FI#T-0251.1 and Specifica	tion Section 01 53			See the attack	ned TT response			
that illustrate to cannot penetr currently in co them can be ro changes. The drawings will ro procurement,	eipt of the drawings includ trestle pile "exclusion zon rate the mat slab. Of the 2 onflict with the pile exclusi- relocated with relatively m other 4 as indicated in the require significant redesign especially at the bridges.	es" where piles 24 piles that are on zones, 20 of inor member e attached in and re-							
T-0264.1	BSE - Beale St	Bridge Pile Conflict (Foll	ow up to RFI T-264)	Closed	01/26/2012	02/05/2012	02/03/2012	Potentially	y 🗌
From: Balfour	Beatty Infrastructure, Inc.	Shad Gardner	To: Turner Construction Compan Gar	y Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST: Reference: BE	BI Marked-Up SKS-0135,	SH-3103	SUGGESTION:		ANSWER: ARUP Respoi	Accept Sug	gestion:		



REQUEST:

W/O in in receipt of RFI response T-0264.2 (Exhibit-A).

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

324 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

TT will allow the proposed location of the "bent-3" East

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
one of the Beale St avoid mat slab reint investigated this red already has a signif pile in question. In or request to move the beam and support in shown on the attact	nse to RFI T-264 requ. Bridge piles 3' west to corcing congestion. BB quest and found that the conder to comply with the pile, we would have to the CDSM wall as ned sketch. Please ad se the pile will need to	o III has ne cap beam east side of the ne o extend the cap vise if this is			more informa wall. Contrac Calculations imposed on t bridge suppo	perly by Arup with le loads on the sh calculations for re load, if any, whic lue to settlement en the calculations its at the north an	oring view. h will be of the		
T-0264.2 From: Balfour Beatty Co-Author:	J	ile Conflict (Follow up Shad Gardner	to RFI T-264.1) To: Turner Construction Con	Closed npan Gary Krutsch	02/08/2012 Answered B	02/18/2012 У :Turner Constru	02/16/2012 uction Comp Gary	Potential Krutsch	ly 🗌
REQUEST: The response to RF loading that would p This response leads the pile in the curre Please confirm that detailed location of would be accepted. Upon receipt of this	FI T-264.1 requested E blaced onto the CDSM is us to believe that the nt location was unacce the pile must be move where the pile placem information BBII can to placed on the Wall	wall. e option to leave eptable. ed and provide a ent accurately	SUGGESTION:				gestion: St be relocated. Stable range of pie		
T-0264.3 From: Webcor Cons Co-Author:		tle Piles in Exclusion 2 Kirk Nielsen	Cones Beale St To: Turner Construction Con	Closed npan Gary Krutsch	08/13/2012 Answered B	08/23/2012 У :Adamson Ass	08/17/2012 ociates, Inc. Georg	Potential ge Metzger	ly 🗌

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

325 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

BBII is purporting any shift of the "bent-3" East pile West will cause excessive bridge cantilevering to the extent the Beale St. bridge must be reconfigured (less the sidewalk) and relocated (East) atop the CDSM wall.

Since the issuance of the TG03 package a third pit for an oil & sand interceptor appears to have been added in room B2761 reference:

- 1. TG06 4/P1-3006 (Exhibit-B) room B2761 floor plan
- 2. TG03 1/S1-2027 & C/S1-3004 (Exhibit-C) for original room configuration
- 3. TG06 1/S1-2057 & 2/S1-3007 (Exhibit-D) for revised room configuration

Please reference marked-up sheet S1-3007 (Exhibit-E). W/O is unaware of why the bridge pile could not be located 12" off the edge of the sump pit as depicted. The corner of the oil & sand interceptor pit which is shallow and could easily be formed, reinforced, and poured after the bridge pile is removed.

Please advise.

pile along grid E as depicted in Exhibit E (pile is east of the sump pit and the edge of pile is 12" from the east face of pit). Note that a pile in this location will require the pile to be cut off at a lower elevation than the typical detail, which will involve a larger block-out. The mat shall be re-braced at the block-out by TG03. Acceptance of this pile location will result in a Change Order for TG06.

T-0264.4	BSE - Inquiries with Regard to Proposed Beale St Bridge Atop East CDSM Wall	Closed
----------	---	--------

From: Webcor Construction LP Kirk Nielsen

To: Turner Construction Compan Gary Krutsch

Co-Author:

REQUEST:

On 8/22/12 Beale St. bridge submittal #TG0300-206 was returned to W/O marked not reviewed (Exhibit-A). Upon W/O's

review of BBII's Beale St. bridge design W/O encountered the following inquiries relative to the CDSM wall:

1. BBII's bridge design relies on ARUP's RFI response #T-0209.3 (Exhibit-B). Please confirm ARUP's RFI response #T-0209.3 (Exhibit-C) is applicable as the basis of the design for the Beale St. bridge, given unlike First and Streets, the length of the Beale St. bridge is resting atop the East CDSM wall.

SUGGESTION:

08/22/2012	09/01/2012	08/29/2012	Potentially	
Answered By:	Webcor Constr	ruction LP Rob	ert Kjome	

ANSWER: Accept Suggestion:

VOID - SEE RFI T-0305



Number

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

326 of 1053 11/05/2013

Time: Job:

Cost

Impact Proceed

10:53 AM 30100

30100 - Transbay Transit Center Project

Status

Date

Created

Date

Required

Date

Answered

SUGGESTION:

REQUEST:

Reference: TG0300-206 Beale St. Bridge Structural Design

Subject

On 8/22/12 Beale St. Bridge submittal TG0300-206 was returned to W/O marked not reviewed. In lieu of piers the proposed bridge relies on the eastern shoring wall for structural support along the bridge. As a result, the design utilizes the additional capacity of the internal bracing to restrain lateral loads imposed by the bridge.

Upon W/O's review of BBII's Beale St. bridge design W/O encountered the following inquiries relative to below grade structure:

-Do the below grade foundation walls as designed have the additional capacity required to support the lateral loads ANSWER:

Accept Suggestion:

VOID- SEE RFI T-0305



west row will be located 7' east of GL 34 and the

columns have been positioned clear of the

east row will be located a further 25' east as shown. All 10

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 327 of 1053 11/05/2013

Time: Job:

RFI 264.3 is still applicable for a centerline of pier

location 10'-6" west of grid line 35.

10:53 AM 30100

20100 Tranchay Transit Contar Project

			30100 - Iran	isbay ITalis					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-Will the below achieve additio as a result of the	e proposed Beale St. brid grade foundation walls b nal strength prior to remo ne additional laterals load ne proposed Beale Street	ne required to oval of re-bracing Is in which they are							
T-0264.6	BSE - Pedestria	n Connection Across th	ne Construction Excavation at Beale	St. Closed	08/23/2012	09/02/2012	08/29/2012	Potential	ly
From: Webcor (Construction LP	David Fields	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Webcor Const	ruction LP Robe	ert Kjome	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: TG Drainage Plan	0300-221 BBI - Temp Bri - Beale St	idges - Civil and			VOID - SEE F	RFI T-0306			
proposed Beale for pedestrian t confirm this is a connection acre	ecification section 01 53 as est. bridge utilizes an or travel though the parcel "acceptable and that no or oss the construction excal for the entire required life.	n-grade sidewalk Lot-N". Please ther pedestrian avation at Beale St.							
T-0264.7	BSE - Beale Stre	eet Bridge Layout		Closed	10/03/2012	10/03/2012	10/11/2012	Potential	lly 🗀
From: Balfour B	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per TCCO Rec submittal:	uest RFI being submitte	d in lieu of a							
206.1, BBII has west between t directed. This r	esponse to Webcor Subr s shifted the bridge super the grid lines 34 and 34.8 necessitates the installati s as shown in the attache	structure beams as on of 2 rows of 5			264.3 was ba locates the ce	sed on an edge enterline of bridg	cepted location ir of a sump pit, wh e pier 10'-1 3/4" ever, the respons	nich west of	



Page: Date:

Job:

328 of 1053 11/05/2013 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

20100 Transhay Transit Contar Project

JOINT VENT	URE		30100 - Transba	ay Trans	sit Center	Project	· ·			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
There are two column 3 as sl - Option 1 is the 10'-6" west of		n of east bridge ayout drawing. his is located on E line usion zone penetration			been accept Please notify Any cost imp	The Option 2 location (15'-6" west of grid line 35) has been accepted via RFI 264.2. Please notify Design Team of selected option. Any cost impact for the two proposed locations shall be reviewed with TJPA prior to moving forward with the work.				
location on the of option 2 to t time. The irreg row of piles in concentration superstructure not a preferable	le configuration.	impacts not known at this eastern cal stress and smic analysis. This is								
	n the location of the su on the location of east									
T-0265	BSE - TG03 E	BSE CDSM Cut-off Wall		Closed	11/09/2011	11/09/2011 11/19/2011 11/17/2011 Potentia				
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Compan Ga	ary Krutsch	Answered E	3y :Adamson Ass	ociates, Inc Geor	ge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Dra 0098	awings GT-2102, GT-2	103, QBD TG0300-			ARUP Resp					
dewatering and and sectionaliz for QBD TG03 their means ar	d excavation without in zed dewatering. Accor 00-0098, BBII can elin nd methods although of ifications indicate cut-	ding to the response minate cut-off walls as contract			request of the review. The discretion of	ne Contractor duri installation of the the Contractor. t yet received the	wn on the drawing ing preconstruction ise, or not, is at the dewatering subn	on ie		

T-0266 BSE - Moratorium Conflict With Phase 2 Utilities In 1st Street From: Webcor Construction LP

Manuel Saldana

To: Turner Construction Compan Gary Krutsch

Closed

11/23/2011

11/23/2011

12/06/2011

Potentially

Answered By: Turner Construction Comr Jack Adams



Co-Author: Balfour Beatty Infrastructure, Inc.

REQUEST:

Dean Wallahan

SUGGESTION:

Webcor/Obayashi Joint Venture

Webeen obayasin John Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 329 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Procee
Co-Author: Balfour Beat	ty Infrastructure, I	nc. Jeff Molloy							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII is in receipt of the moratorium waiver expire date of 12-09-2011. BBII/PEC will not be able to complete the Phase II utility work by 12/9/11 without accelerating the schedule. Our original request for extension was December 19, 2011. A 12/9/11 completion date may be achievable if PEC is allowed to work 10 hr shifts during the day beginning 11/28 through 12/2 as well as working on 12/3 and 12/4. In addition, we propose to have a separate night crew to work near / around the Minna Street intersection to alleviate impacts to heavy demand of day traffic. The majority, if not all, of the demolition can occur during the dday to mitigate noise at night. The night work would need to begin on 11/28 and run through 12/2. Please keep in mind that implenting an accelerated schedule may also impact PG&E. We have no control over their work and the completion of the utility tie-ins and Mandral testing is contingent on PG&E's availability per the new adjusted completion date.					SFMTA. BBII. Monday-Frida	torium waiver is PEC work can	extended to 12/2 continue on day s SFMTA Special	shift	
items to meet the 1 1) W/O to permit B and night shift i.e. operations, 2) Permit from MT/ times) during the d 3) Permit from MT/	12/9/11 moratoriu BII / PEC to work 10 Hours Days ar A to extend workii ay	the extended hours, ad Night work							
closures 4) Permit from TJP 5) Agreement / App cost (premium time magnitude of cost	proval for comper e and or shift rate	sation of additional BBII will have							
		vith W/O on Monday ection regarding the							
T-0269	BSE - Mass I	Excavation Pile Extraction (Clarification	Closed	12/13/2011	12/23/2011	12/27/2011	Potential	lly 🗌
From: Webcor Con-	struction LP	David Fields	To: Turner Construction	on Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

330 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

Date

Date

Date

Cost Created Required Answered Number Subiect Status Impact Proceed Reference: 31 00 00 1.4 C.2 and Attached Sketch ARUP Response: 31 00 00 1.4.C.2 Pile Extraction - To occur in two (2) stages per Zone. The method described is not in accordance with the Stage 1 extraction will remove the piles within the footprint Contract Documents which require the existing piles to of the trestle the middle 60' of the work be removed using Ground Deformation Control Methods (as defined in 02 41 19) except where Nonzone, dewatering wells and piles that are in conflict with the bracing pin pile locations. Piles will be Ground Deformation Control Methods are allowed and removed using a non ground deformation control method noted as such on the drawings. and be removed full length to be utilized for offsite LEED projects and to help achieve sustainability The method described is acceptable with the following for this material. notes: this is acceptable for timber piles only, and if Trestle piles will be installed after Stage 1 pile extraction they are longer than 30 feet, Arup may re-evaluate the and concurrently with Stage 2 pile methods used. If the density of existing piles exceeds extraction. 30 piles per 1000 square feet, Arup may re-evaluate the methods used. If excessive ground movements Stage 2 extraction will remove the piles within the 50' +are observed, the Contractor shall switch to using a area adjacent to the CDSM walls along A Ground Deformation Control Method. and J lines. Piles will be extracted using a ground deformation control method as per Section 02 41 19 - 3.1.B of the specifications utilizing both casing and backfilling of the void or removal by means of cutting the pile off at the grade of each level of excavation as the work proceeds. Please reference the attached drawing for details of the above procedure. The 80 Natoma shoring wall will be removed in stages coinciding with the stages of excavation. Please confirm this method of pile extraction during mass excavation is acceptable.

To: Turner Construction Compan Gary Krutsch

Co-Author:

T-0269.1

REQUEST:

BBII are proposing to perform "free pull" pile extraction on a 'test section' in Zone 2. The proposed piles will be extracted near GL14. close to CDSM wall on the south side using a 'non ground deformation control

From: Balfour Beatty Infrastructure, Inc.

BSE - Zone 2 Free Pull Pile Extraction Test Section

Shad Gardner

SUGGESTION:

ANSWER: **Accept Suggestion:**

02/04/2012

Answered By: Adamson Associates, Inc. George Metzger

02/07/2012

Potentially

ARUP Response:

01/25/2012



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

331 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

method' by free pulling each pile without using steel casing. Any movement that may occur in the CDSM wall will be monitored by the inclinometer located close to GL 14. This test section will give us give us the information we need to determine:

1) If free pulling the piles using a non ground deformation control method affects the CDSM wall by causing movement.

Reference: DD-2211

W/O Note: W/O understands this RFI is the result of ongoing conversations between BBII, ARUP, & PMPC. W/O remains concerned that should the CDSM wall experience movement, the use of the 'Free Pull' method beneath or outside the trestle area, would significantly increase the difficulty in determining the cause of the CDSM wall movement.

2) If it is a suitable method to adopt for removing the remainder of the piles in Zone 2 located outside the trestle area.

The attached drawing (D-2211) conveys the test section in

Please advise on the suitability of this test to determine if free pulling can be used outside the trestle zone.

Contractor to provide details of the instrumentation that will be installed by the Contractor to demonstrate compliance with Minimal Ground Loss defined in 02 41 19 3.2 G.

Arup's response to RFI 269 continues to be our position regarding pile removal during mass excavation

T-0269.2 BSE - Zone 2 Free Pull Pile Extraction Test Section

Ural Yal

To: Turner Construction Compan Gary Krutsch

Closed

Co-Author:

REQUEST:

Reference: BBII 4/30/12 Ground Deformation Control Drawing

From: Balfour Beatty Infrastructure. Inc.

BBII are proposing to perform "free pull" pile extraction on a "test section" in Zone 2. The proposed piles will be extracted near GL14. close to CDSM wall on the north side using a "non ground deformation control method" by free pulling each pile without using steel casing. Inclinometer (I-011) located close to GL 14 will be monitored during the test. This test section will give the

SUGGESTION:

05/01/2012

05/11/2012

05/04/2012

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: **Accept Suggestion:**

The test set-up and monitoring are acceptable. Since they differ from that used in the area of the buttress, Arup will draw conclusions on the suitability of free pulling outside the trestle zone after we evaluate the test results.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 332 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

	<u> </u>	<u> </u>
ımber <u>Subject</u>	Status	Date Date Cost Created Required Answered Impact Proc
information needed to determine: 1) If free pulling the piles using a non ground deformation control method affects the CDSM wall by causing movement. 2) If it is a suitable method to adopt for removing the remainder of the piles in Zone 2 located outside the		
"trestle area".		
The attached drawing conveys the test section in green. Please advise on the suitability of this test to determine if free pulling can be used outside the trestle zone.		
0269.3 BSE - Zone 2 Pile Extraction Test Section	Closed	06/15/2012 06/25/2012 06/21/2012 Potentially
From: Balfour Beatty Infrastructure, Inc.	To: Turner Construction Compan Gary Krutsch	Answered By: Adamson Associates, Inc George Metzger
o-Author:		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
BBII completed the timber pile extraction test section in zone 2 on 06/12/2012. Based on the data recorded by ARUP inclinometers, please advise if BBII can continue with the timber pile extraction in Zone 2 using non ground deformation control methods ("free pull").		See attachmed memo for Arup's review of the Contractor's test program and proposed method of removing piles, and actions required by the Contractor going forward.
0269.4 BSE Zones 3/4 Pile Extraction Methodology	Closed	09/27/2012 10/07/2012 10/05/2012 Potentially
From: Webcor Construction LP Kirk Nielsen	To: Turner Construction Compan Gary Krutsch	Answered By: Adamson Associates, Inc George Metzger
o-Author:		-
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Please confirm ARUP's 9/25/12 verbal revision to RFI response T-0269.3, to employ the originally specified ground deformation control method (not free pull) when pulling timber piles between: Soldier piles 251 and 276 & between A line and the parts of the consecutable		Arup confirms this verbal revision. The Contractor shall employ the originally specified ground deformation control method (not free pull)

Additionally, due to the excessive movements caused by the timber pile pulling in the southwest corner of

Zone 4 which is defined by soldier pile 251 to the west and solder pile 276 to the east, and A-line to the north and the north edge of the trestle to the south.



Please confirm that the direction is to excavate and cut

timber piles for all remaining timber piles.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

deformation control methods contractor is directed to use Spec Paragraph 3.1B. Refer also to SPEC 01-35333 of 1053 11/05/2013

Time:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
							. <u>mipaot</u>	. 10000
				evert to using the original d in the construction piles within 30 feet of				
-0269.5 BSE Zone 3 & 4	Pile Extraction Methodolo	ogy	Closed	10/10/2012	10/20/2012	10/12/2012	Potentiall	ly 🔲
From: Balfour Beatty Infrastructure, Inc.	. Dean Wallahan	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Reference: 02 41 19 Drawing Reference: GT-2102 / GT-210	. 3			Arup confirms	this verbal revi	-		
The response to RFI # T-0269.4 says t timber pile pulling as specified in the convergence of the process of the process of the pulling as specified in the convergence of the pulling as specified in the process of the pulling as specified in the pulling a			ground deforn when pulling t Zone 4 which and solder pil	nation control m imber piles in th is defined by so e 276 to the eas	he originally specethod (not free pue portion of Zone ldier pile 251 to the t, and A-line to the to the south.	ااا) 3 and he west		
Upon field conversations, please confir interpretation of the designer's intent is the attached drawing.				by the timber Zone 3, the C timber pile pu	pile pulling in th ontractor shall r lling as specified r removal of any	sive movements of a southwest corne evert to using the d in the construction piles within 30 fer	er of original on	
-0269.6 BSE Zone 3 & 4	Pile Extraction Methodolo	ogy	Closed	10/15/2012	10/25/2012	10/19/2012	Potentiall	
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	- Ш
Co-Author:			•			•		
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Reference: 02 41 19 Drawing Reference: GT-2102 & GT-21	03			to contractors	pecification 02- inability to cont	41-19 Pile Remov rol settlement and ng the non ground	b	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 334 of 1053 11/05/2013 10:53 AM

Time:
Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					65 MITIGATIO	ON MEASURES	S AND MONITOR	ING.	
-0269.7	BSE - Timber p	ile extraction method in	the footprint of the Zone-4 tr	restle Closed	04/11/2013	04/21/2013	04/16/2013	Potential	ly 🗌
From: Webcor C	Construction LP	Lynn Kowallis	To: Turner Constructio	n Compan Gary Krutsch	Answered By	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Webcor C	Construction LP	Kirk Nielsen							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: GT-2102, (GT-2103						are in the footprir		
contractor may	ARUP's 4/10/13 verbal the use non-ground def r Zone-4 timber piles in	formation method			trestle piles n deformation r	nay be extracted method (free pul	I using non-groun ling).	d	
-0270	BSE - Clarificat	tion for Existing Ground	Water Elevation	Closed	12/28/2011	01/07/2012	12/30/2011	Potential	ly 🗌
From: Webcor C	Construction LP	David Fields	To: Arup	Kevin Clinch	Answered By	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour B	eatty Infrastructure, Inc	. Jeff Molloy							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 31-2	23-29 and Attached Doo	cument			ARUP Respo				
obtain an accur requesting the r	uring the meeting on 12 rate dewatering model, I recent piezometer data I has reviewed the data	BBII is for Zones 1 and 2.					zone 1 and 2 has an email to Turne		
piezometers 11 Mission St (see	82, 1229 and 1255 local attachment) and would ground water level to u	ated adjacent to 301 I like to			The baseline +1.6 ft NAVD		oiezo P-06F (aka	1262) is	
Zone 4. Based natural groundy	on our review, the exist vater condition fluctuate this area. BBII would like	ing es between 1.6 E.L			The baseline is +1.1 ft NAV		oiezo P-06MS (ak	a 1182)	
upon a starting 4.	groundwater elevation of dike clarification as to	of -5.0 E.L for Zone			The baseline is +1.0 ft NAV		oiezo P-07MS (ak	a 1229)	
,	vel to use for Zones 1, 2					ers in Zone 1 an	need to be collected at 2 prior to estab		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 335 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

attached drawing

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
T-0271	BSE - CRT-021 (Gate Fence Clarifications		Closed	01/05/2012	01/05/2012	01/10/2012	Potential	ly		
From: Wel	bcor Construction LP	David Fields	To: Turner Construction Compan	Gwynne Powell	Answered By	:Turner Constru	uction Comp Jack	Adams	_		
Co-Author: Turi	ner Construction Company	Jack Adams									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
CRT#021	PSE - CRT-021 Gate Fence Clarification From: Webcor Construction LP David Fields				Proposed Driveway, Gate and Fe CRT#021 drawing:						
to be cons the Propo attached). included ii -Should th (see 1/4/1	structed to connect the existing used Driveway gate location (sr. Please confirm the 10ft fence in this CRT-021. The 24'-10" section of the existing Photo attached) be replaced thousand St shown on the CRT#	g 9ft tall fence to ee 1/4/12 Photo e should be ng 6ft tall fence d?			is where the C equipment ove light pole. Con of curb cut and proposed drive north of existir provided only - Confirmed th	contractor is curer city sidewalk atractor has mis digate provided eway curbicut and light pole as as guidance.	of new gate and rently driving true and curb north o interpreted the loby TJPA. The lond new gate is to shown - dimension cost should be iro add small sect	cks and f this cations cation of be ons were			
Confirm th	hat Bullet #3 under the "Scope				fence as requi both north and foot and align and/or step do Note: green sl	red to install ne I south side of g with top of exis wn to align with ats are to be eli rea to assist Tru	w gate (fence ad gate). Fence can sting Parcel P'-P" n existing 6 foot for minated at both uck Drivers and	ded be nine fence ence.			
							ne existing 6ft tall r is acceptable a				
						Howard St" sho ing should read	wn on the CRT#	021			
							he "Scope of Wo				



1. Condition specific engineering calculations to mitigate

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

Arup is in receipt of the Contractor's Buttress Shaft D1

336 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Procee
T-0272	BSE - D1 Casi	ing Recovery Inquiries		Closed	01/27/2012	02/02/2012	01/27/2012	Potentially
From: Webcor Cons	struction LP	Joanne Filipas	To: Turner Construction (Compan Gary Krutsch	Answered By	/ :Arup	Kevi	in Clinch
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
retrieval plan:	· ·	mplete its D1 casing				Answered in RF	I T-0272.1	
 Condition specified earth and water hearth. 		culations to mitigate m of the casing.			ARUP Respo	onse:		
 Condition specifications Condition specification Condition specification 	sing buckling. fic plan engineering	g calculations for			Casing Retrie 140-03134). D retrieve the ca	val Plan (Constr Designing and exasting is the Contraction	actor's Buttress suctware Transm recuting the plan tractor's respons calculations for A	ittal item 1 to ibility.
Note - This RFI is hereview/response is	0 1 7	expedited			review which of lead to ground	demonstrate that I loss beneath a provide calculation	at the method doo and around the ca ons in support of	es not asing.
					plan that incluintend to retrie but not be lim composition of height and conference the method by retrieval of the	des the method eve the casing. ited to, the curre of the soil plug in mposition of the ess, the depth of which the shaf	out a more compology by which the plan should ent height and the shaft, the placed by the soil plug during maximum dewat will be backfilled measures they	hey include, anned the atering, d upon
					(Constructwar	•	calculations. Them 140-03134) separed.	
					3. Refer to res	sponse to questi	on 1.	
					Answered by 01/27/2012	Kevin Clinch (Al	RUP)	
T-0272.1	BSE - D1 Casi	ing Recovery Inquiries		Closed	01/27/2012	02/06/2012	01/27/2012	Potentially
From: Webcor Cons	struction LP	Kirk Nielsen	To: Arup	Kevin Clinch	Answered By	/: Arup	Kevi	in Clinch
Co-Author:								
REQUEST: BBII is requesting t retrieval plan:	he following to cor	mplete its D1 casing	SUGGESTION:		ANSWER: ARUP Respon	Accept Sugnese:	gestion:	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 337 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject	Status	Created	Date Required	Date Answered	Impact	Proceed

earth and water heave from the bottom of the casing.

2. Condition specific engineering calculations to substantiate no casing buckling.

3. Condition specific plan engineering calculations for

Condition specific plan engineering calculations for dewatering, specifically expected water quantity.

Note - This RFI is high priority and an expedited review/response is necessary.

Casing Retrieval Plan (Constructware Transmittal item 140-03134). Designing and executing the plan to retrieve the casing is the Contractor's responsibility. The Contractor shall provide calculations for Arup to review which demonstrate that the method does not lead to ground loss beneath and around the casing. Arup will not provide calculations in support of the Contractor's plan.

- 1. Arup cannot comment without a more complete plan that includes the methodology by which they intend to retrieve the casing. The plan should include, but not be limited to, the current height and composition of the soil plug in the shaft, the planned height and composition of the soil plug during the retrieval process, the depth of maximum dewatering, the method by which the shaft will be backfilled upon retrieval of the casing, and the measures they will take to monitor heave at the plug.
- 2. Arup will not perform these calculations. The Plan (Constructware Transmittal item 140-03134) states that calculations are being prepared.
- 3. Refer to response to question 1.

Answered by Kevin Clinch (ARUP) 01/27/2012

01/30/2012

ANSWER:

T-0273 BSE - Clarification for Driveway Desgin at 540 Howard CR -018R2 Closed

From: Webcor Construction LP

David Fields

To: Turner Construction Compan Gary Krutsch

Answered By: Turner Construction Comr Gary Krutsch

02/06/2012

Potentially

02/09/2012

Co-Author:

REQUEST:

SUGGESTION:

Reference: Attached BBI Sketch CRT-018RI directs BBII to complete a 12ft driveway at the 540 Howard Street. The existing conditions/location of the curb, USPS facilities and water fire hydrant prevents the driveway from being installed within compliance with the DPW and ADA standards.

DPW/Tumer/W/0 and BBII discussed various solutions to

Per Alberto Herrera of DPW, Mike Pavich of BSM, and Pete Arnautoff of BFP, the proposed modification is acceptable. See (2) linked documents for the full breadth of their responses.

Accept Suggestion:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

338 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

To: Turner Construction Compan Gary Krutsch

bring the driveway into confmmance with ADA and DPW standards at the field meeting held on January 17th 2012 and again 01/24//2012. Pursuant to the field meeting and direction of CRT-018R2, BBII is requesting detailed plans to allow for construction of a compliant driveway at 540 Howard Street. BBII has been directed in the field by W /0/Tumer, to complete modification to the driveway at 540 Howard Street. Per our field meeting please refer to the attached drawing, indicating BBII understanding on the modifications required. Please confirm the modification per the attached drawing is compliant with City and ADA driveway standards.

T-0274 BSE - Conflict between CDSM & Dewatering specification

Kirk Nielsen

Closed

02/20/2012

02/16/2012

Potentially

Answered By: Arup

Kevin Clinch

Co-Author:

T-0275

REQUEST:

From: Webcor Construction LP

Section 31 56 13.3.12.F.1 states "The performance of the shoring wall shall be such that the groundwater levels around the excavation are maintained within (3.0) feet from the pre-excavation levels." The section further states "In the event the water levels begin to drop below the specified limit, the Contractor shall be responsible to implement appropriate measures to control groundwater levels within the specified limits."

Section 31 23 19.1.5.B.10 states "Include description of emergency procedures to follow when system failure or other problems arise."

In the event the CDSM wall fails to mitigate the effects of the dewatering within the excavation should not previously drilled recharge wells be ready to recharge the affected area outside the excavation?

SUGGESTION:

ANSWER:

02/10/2012

Accept Suggestion:

ARUP Response:

Recharing wells may be used at the Contractor's discretion pending Arup's review of the well details.

These wells shall be at no additional cost to the TJPA

02/25/2012



the mixes is low. Typically, mixes that utilize a

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

339 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Webcor Construction LP	Kirk Nielsen	To: Turner Construction Comp	an Gary Krutsch	Answered E	3y: Webcor Const	ruction LP David	d Fields	
Co-Author:									
REQU			SUGGESTION:		ANSWER:	Accept Sug			
"On ve areas cemer which span v The tr require 1. Acc	on 31 00 00.3.8.L states ertical surfaces of CDSM shoring and fill in cavities exceeding 1" on to provide a reasonably unifor protection board, installed in a lawithout buckling." ade subcontractor is seeking reliement. Please advise as to: ceptance. vised dimension.	leep with patching n surface over iter contract, will			Spec 00 07 (h the RFI definitic		
T-0275.1	BSE - Request	for relief from 1" deep o	dimension of CDSM	Closed	02/16/2012	02/26/2012	02/17/2012	Potentia	ily 🗌
From:	Webcor Construction LP	Kirk Nielsen	To: Turner Construction Comp	an Gary Krutsch	Answered E	By:Turner Constru	uction Comr Gary	Krutsch	
Co-Author:									
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
"On ve areas cemer which span v The tr require 1. Acc	on 31 00 00.3.8.L states ertical surfaces of CDSM shoring and fill in cavities exceeding 1" on to provide a reasonably uniforn protection board, installed in a lawithout buckling." ade subcontractor is seeking reliement. Please advise as to: ceptance. vised dimension.	leep with patching n surface over iter contract, will			WOJV must	comply with Spe	c 31 00 00 Section	on 3.8.L.	
T-0276	•	•	ncrete Slump Requirements	Closed	02/16/2012	02/26/2012	02/17/2012	Potentia	ily
From: Co-Author:	Balfour Beatty Infrastructure, Inc	. Emre Erzen	To: Turner Construction Comp.	an Gary Krutsch	Answered E	3y: Arup	Kevir	n Clinch	
REQU Refere	JEST: ence: 31 63 29		SUGGESTION:		ANSWER: This is accep	Accept Sug otable.	gestion:		
	ntly, the primary and the seconda plasticizer to achieve slump as th	•							



used in the design of the buttress shafts as well as the buttress shafts minimum 10 feet embedment into bedrock.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

340 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

OSTRI VERTORE	30100 - Transbay Trans	sit Center	Project			
Number Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
superplasticizer are intended for slump ranges between 9" and 12," however, project specifications require an 8" +/- 1" slump. Unfortunately, the addition of the superplasticizer has made it difficult to achieve slump as specified. BBII and Central Concrete are requesting an 8" + 1" - 2" slump (giving a range of 6" to 9") in lieu of the specified 8" +/- 1". There will be no adverse effect to the strength as slump is achieved through chemical admixtures and not by adding water. Please advise.						
T-0277 BSE - Request for Buttress Shaft		02/16/2012	02/26/2012	02/23/2012	Potential	lly
From: Balfour Beatty Infrastructure, Inc. Emre Erzen Co-Author:	To: Turner Construction Compan Gary Krutsch	Answered B	y: Lurner Constru	uction Comr Gary	/ Krutsch	
REQUEST: Please address the following information request from BBII's sub contractor Becho Inc.: " Becho requests to obtain all and any documentation used in the design ofthe Buttress Shafts. Documentation should include, but is not limited to, submitted and approved calculations, sketches, preliminary designs and calculations, conceptual drawings, all site investigation, and all other work documents and work papers that were utilized to develop the buttress shaft design in addition to what's provided in the contract documents and specifications. Please advise, if it is acceptable.	SUGGESTION:	rejected as or unrelated to a	verly broad, burd any legitimate en e required work.	gestion: ontained in this R lensome and see quiry relating to This is not the p	emingly the	
T-0277.1 BSE - Becho's 2nd Request for B	uttress Design Doc Closed	03/23/2012	04/02/2012	03/28/2012	Potential	lly 🗌
From: Balfour Beatty Infrastructure, Inc.	To: Turner Construction Compan Gary Krutsch	Answered B	y:Turner Constru	uction Comr Gary	y Krutsch	
Co-Author:						
REQUEST: Becho requests to obtain all work documents, sketches, preliminary calculations and approved calculations which show how the designer arrived the final skin friction values	SUGGESTION:	ANSWER: Per the TJPA	Accept Sugar, refer to respon	gestion:	Г-0277.	



From: Balfour Beatty Infrastructure, Inc.

Shad Gardner

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

341 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0277.2	BSE - Request for	Buttress Shaft Design	Documentation	Closed	04/04/2012	04/14/2012	04/11/2012	Potential	lly 🗌
From: Balfour Beatty I	Infrastructure, Inc.	Ural Yal	To: Turner Construction Com	pan Gary Krutsch	Answered By:	Transbay PMF	C Dou	glas Jacobso	on
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the agreement at the 4/4/12 TCCO Progress Meeting BSE Buttress Shoring and Excavation please find Becho's Request for additional design documentation below: Becho is in receipt of RFI # T-0277.1 regarding the Buttress Shaft Design Documentation. As per the TJPA response, Becho more specifically requests the Reference Shoring Design work documents pertinent to zone 4.					request. Per C GEOTECHNIC and A.2, three for the Contrac report is reque 00 03 20 1.2 A Geotechnical I Transbay Join North America 00 03 20 1.3 A Test Program, Cement Deep Center, Prepai 2010. 00 03 20 1.3 A Test Program	Contract Spec CCAL DATA, sec documents (lis stor to review. sted. 1.1 Transbay Tr. Data Report, Vot Powers Author Limited, Febru Installation of Soil Mixing Mered by Arup North Act Pinal Report and Monitoring	tions 1.2 A.1 and ted below) are a Please specify w ansit Center, Fin plumes 1, 2, and rity. Prepared by	I 1.3 A.1 vailable hich al 3. Arup otype sing the Gransit red, May otype tion of	
T-0278 From: Webcor Constr Co-Author: REQUEST: Reference: Attached Due to the deletion of access trustle BBII is outs" (per the attache purposes, please pro	BII Sketch f the "Natoma Finger" proposing to install a	dditional "bump nation	ation To: Turner Construction Comp SUGGESTION:	Closed pan Gary Krutsch	ANSWER: Arup understal RFI-251.1 sho refer to the RF Regarding the review the geo	Accept Sugnds that the dews the "no-fly-zl-251.1 responaddition of the technical aspec	02/24/2012 Kevi	or shall ation. p will	lly
these locations.	DOE To all Wald	ling Code Compatibility		Closed	when they are	submitted.	03/20/2012	Potential	

To: Turner Construction Compan Gary Krutsch

Answered By: URS Corporation

David Fyfe



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

342 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

Co-Author:

REQUEST:

Reference: ASHTO/AWSS D1.5M/D1.5:2008 SH-0200

The Temporary Access Trestle Design submitted in December specified AWS 01.1 as the required welding code. During the review process the reviewers requested that the welding code be changed to AWS 01.5- Bridge Welding Code. This request was complied with by revising general note A5.2 on the conformed trestle drawings.

Since issuing these documents, BBII has been informed by both our shop and field welding inspectors that a compatibility discrepancy exists between the 01.5 welding code and base metals/ member shapes originally specified in the trestle design.

D1.5 is specifically intended for use on bridges and it is not intended for use on "structures composed of structural tubing" as noted in section 1.1.1 attached. This causes a discrepancy because unlike most bridges, our trestle contains a substructure completely comprised of structural steel tubing. (ie Pipe pile, lateral and longitudinal X-bracing).

In addition to the pipe incompatibility, there is also an incompatibility between the specified base metals. 01.5 requires base metals to be ASTM A709 and the trestle design specified a variety of different base metals depending on their structural shape as shown in general note 2.28 also attached Since Article 1.1.1 of 01.5 permits the Engineer to choose to reference an alternate applicable welding standard when fabrication or structure components are not specifically addressed within its sections, BBII proposes keeping AWS 01.1 as the specified welding code because of its base metal compatibility, but adding a supplemental trestle specific welding specification written by the EOR that increases the quality control to a level equal to that of 01.5. This supplemental specification will include applicable portions of 01.5 section 3 "Workmanship" and section 3 "Inspection" when the requirements are greater than that of 01.1. (ie: fit-up tolerances, NOT frequency, etc).

SUGGESTION:

ANSWER: Acc

Accept Suggestion:

URS Response to RFI No. T-0279 Trestle Welding Code Compatibility:

A series of typographic errors occur within the RFI, referencing the AWS documents D1.1 and D1.5 as 01.1 or 01.5. References to AWS documents should be correctly identified by the correct AWS document numbers to avoid any future confusion within the project documentation. This RFI should be corrected or annotated to reflect these typographic errors.

No exception has been taken to use tubular steel elements as components within the trestle structures.

Note AWS D1.5 section 1.2.2 Approved Base Metals: This AWS section provides a list of approved base metals, and prefaces this with Unless otherwise specified, and furthermore specifically states Other steels may be approved by the Engineer. We understand other steels have been recommended for approval by the Engineer (EOR = Pirooz Barar of PB&A) as they are included for use in the set of contract drawings for the Access Trestle. With the recommendation by the EOR and concurrence by the Peer Reviewer that the base metals proposed for use are suitable for the intended usage including an assessment of fatigue and potential for cracking of welding for the required service loading an service life, URS takes no exception to the use of the alternate base metals.

Use of AWS D1.5 is a requirement of the procurement specification, not simply a request made by technical reviewers. Reference 01 53 13 Rev 1.

Where materials within the trestle structure are not addressed by AWS D1.5, then use of AWS D1.1 is approved for connection of these elements where D1.5 is not applicable as follows:

Where preapproved joint geometry for welding is required, geometry in accordance with preapproved welding procedures per AWS D1.1 are approved for use;



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

343 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Upon concurrence, E	Please advise if the proposed resolution is acceptable. Upon concurrence, BBII will submit the EOR's Trestle Welding specification for review.			Provide all inspections for AWS Draccordance with all requirements of accordance with all requirements of the work				1.5 is 1 (for igent D1.5 her S D1.5 base	
						se per the note			
T-0279.1	BSE - Trestle Wel	ding Code Compatibility		Closed	03/28/2012	04/07/2012	04/09/2012	Potential	lly
From: Balfour Beatty	Infrastructure, Inc.	Shad Gardner	To: Turner Construction Compan G	ary Krutsch	Answered By:	URS Corporati	on David	Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: BBII Demarcation SI					and substructu	re as indicated	01.5 for superstruction bridge cross s	ection	

PB&A Trestle Welding Inspection Plan

The response to RFI T-279 provided a method of dealing with the trestle welding code compatibility issues that would be difficult to enforce, track and document. BBII proposes making a clear demarcation line at the bottom the cap beam that will clearly differentiate the two welding codes.

Additionally the RFI response appears to infer that the Temporary Bridge Specification 01-53-13 requires full compliance with AWS D1.5 as described in the third and last paragraph. 01-53-13 Paragraph 1.6.H (revB) only requires Welding Qualifications (procedures and

figure prepared by BBII and attached to this RFI No. T-0279.1 is acceptable.

Submission of the Trestle Welding Inspection Plan (by PB&A and attached to this RFI No. T-0279.1) for review and acceptance via the RFI process is not an acceptable method, therefore we have no comment on

For clarity we respond to the welding inspection plan with the following: All requirements, including inspection, of AWS D1.1 apply to AWS D1.1 areas. All requirements, including inspection, of AWS D1.5 apply to AWS D1.5 areas.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 344 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	<u>Gusjeet</u>	Otatao				шриос	1100000

personnel) to be performed in accordance with AWS D1.5.

Therefore in order to comply with the project specifications and the appropriate welding codes, BBII will Perform all welding below the demarcation line (substructure) with weld procedures and welder qualifications in conformance with AWS D1.1 since the members are predominately comprised of tubular material.

Perform all welding above the demarcation line (superstructure) with weld procedures and welder qualifications conformance with AWS D1.5 since the main members are Wide flange beam.

Inspection will be performed by the project special inspector in accordance with recommendations of the FOR attached.

Please confirm this is acceptable.

T-0280 BSE - Request to shorten depth on shaft D/1

Joanne Filipas

Closed

03/10/2012

03/02/2012

Potentially

Answered By: Adamson Associates, Inc George Metzger

Co-Author:

REQUEST:

From: Webcor Construction LP

Ref - Attached RFI from BBI/Becho

Due to the blowout conditions previously encountered on Buttress Shaft D1, BECHO requests to install Shaft D1 to a depth of 180 feet as previously proposed by ARUP. BECHO believes the blowout condition still exists and thus would like to proceed with caution to prevent another occurrence. Alternatively, if ARUP feels this is no longer an option, BECHO requests that ARUP increase the maximum spacing allowed between the tangent shafts, in event to mitigate possible schedule delay, and/or re-break of casing while advancing D1. By allowing such changes will help mitigate Buttress shaft schedule.

W/O acknowledges that BBII has yet to demonstrate that a "blowout" condition has in fact occurred. W/O would

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

ANSWER: Accept Suggestion:

ARUP Response:

02/29/2012

Earlier discussions regarding the consideration of shortening shaft D-1 was based on having E-1 and E-2 in place to depth and abandoning the casing at D-1 beneath the sheared break. Shafts E-1 and E-2 are not complete and the casing has been painstakingly removed, therefore shaft D-1 shall be installed in accordance with the Contract Documents.

The Contractor shall submit a proposal for achieving the increased spacing that acknowledges the fixed distance between shaft rows C and M which were established based on RFI 151.



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

345 of 1053

Time: Job:

10:53 AM 30100

Number	Subject	Statu	s	Date Created	Date Required	Date Answered	Cost Impact	Procee
drilling diffi	e design team consider short pouring D-1 due to iculties encountered. Alternatively, W/O would e spacing revision described above.							
T-0281	BSE - Survey Site Drawing and Certificate S	Submittal Close	ed	03/06/2012	03/16/2012	03/09/2012	Potentiall	y 🗀
From: Balfo	our Beatty Infrastructure, Inc. Danny Walsh	To: Turner Construction Compan Gary Kruts	sch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	- Ш
Co-Author:		·						
and certific As the first terminal, n the require verify the v subcontrac	clear on what is required for the "site drawing cate" submittal listed in section 01 10 50 1.3B. to contractor working on the construction of the previous work is in place. Please confirm that ement is intended for future trade packages (to work already completed by previous trade ctors), or provide additional clarification on what of BBII to complete this submittal requirement.	SUGGESTION:		is to provide it for the purpos "the elevations	ems specified in ems specified in the s	on of the GC's sund Division 01 10 5 pecification: to coof the Work are in	50 1.3B ertify	
T-0282	BSE - News/Advertisement Stand Removal	Close	ed	03/16/2012	03/26/2012	03/19/2012	Potentiall	у 🗀
From: Balfo	our Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction Compan Gary Kruts	sch	Answered By	:Turner Constru	uction Comr Jack	Adams	- Ш
Co-Author:								
Fremont S Buttress dr the sidewa lanes on F	d news/advertisement stand on the Westside of street needs to be removed to accommodate the rilling on shafts A & B. BBII intends to modify alk at this current location to provide 3 - 11ft fremont Street per specification section 01-15-ttached sketch)	SUGGESTION:			y remove the n	gestion: no cost to the ov ews/advertisemen		
Please pro stands.	ovide direction to relocate or remove these							
T-0283	BSE - Backfill Material For Pre-Trench	Close	ed	03/15/2012	03/25/2012	03/20/2012	Potentiall	y 🗀
From: Balfo	our Beatty Infrastructure, Inc. Jeff Molloy	To: Turner Construction Compan Gary Kruts		Answered By	:Turner Constru	uction Comr Jack	,	



requirements and also allow for the installation of the

The use of this mix design is scheduled for this afternoon

in order to maintain the CDSM installation schedule for

this weekend. BBII would much appreciate an expedited

review and acceptance of this mix design.

CDSM wall.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

the pretrench locations First and Fremont Streets.

However, again this use is a Contractor scheduling

from WOJV, BBII, and/or Malcolm-DND

decision and will be at no additional cost to the TJPA

346 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

ımber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Proposed 1 sack sand mix design BBII is not able to achieve the required compaction SFDPW requirements due to inclement weather conditions. We have been advised from suppliers the			FOA100CX. T Section 31 23 See also RFI This use is ac	This use of sand, 10, 2.2, H of the U-0156.	ck sand slurry mix /slurry is specified e utility relocation	I in spec.	
sand backfill material is saturated, and from past experience will not achieve the required compaction of the weather persists as forcasted BBII is proposin backfill with 1 sack sand as a substitute to dry mate. This will allow us to maintain the scheduled CDSM installation on 3/23/2012, and maintain the DPW compaction standards. Note sand slurry is only required.	ng to rial. wall		slurry is impor pretrench loca from Webcor- their Trade Su coordinated w	tant for the upcontions. Per corre Obayashi the Clubcontractor "BE ith DND/Malcolr	ns. Also, this use pring CDSM wall spondence attach W/GC, they state the state on side record in this regard." Apporting Docume	at the ned that I and (see	
the street or public right of way. Note: According to BBII this will not impact DND/M in the installation of the CDSM wall.			testing is acce a Contractor s	eptable. Howeve scheduling decis t to the TJPA fro	soils compaction or this sand slurry ion and will be at om WOJV, BBII, a	use is no	
0283.1 BSE - Backfill for Pretrencl	ning	Closed	03/29/2012	04/08/2012	03/30/2012	Potential	lly 🗀
From: Balfour Beatty Infrastructure, Inc. Ural Y		npan Gary Krutsch	Answered By	:Turner Constru	ction Comr Jack	Adams	• Ш
o-Author:							
REQUEST: As a supplement to RFI 283 regarding the use of a mix for backfill of the pre-trench at A-line across Fir Street, BBII is submitting the attached mix design for review and acceptance. The previously submitted in design was not pumpable and due to the nature of the extraction and backfill operation a pumpable mix is required so backfill compaction can be achieved. The attached mix will allow us to achieve the DPW comparts of the achieve the DPW compared to the achieve the achieve the achieve the DPW compared to the achieve the achi	st or nix the pile ne		is acceptable. with their Trad considered an regard. Substituting th	CM/GC Webco de Subcontracto ad coordinated w his mix versus so	gestion: SM pre-trench loo r-Obayashi to cor r such that "BBII h ith DND/Malcolm oils compaction a	nfirm nas in this nd	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

347 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0284	BSE - Request to Borehole Coordinate	es TTB-07 TTB-09	Closed	03/21/2012	03/31/2012	03/23/2012	Potentia	lly
From: Balfour Bea	atty Infrastructure, Inc. Ural Yal	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Webcor Const	ruction LP Davi	d Fields	
Co-Author:								
by ARUP it has considered by Boreholes TTB-07 BECHO respectful	ew of the Geotechnical Report produced ome to BECHO's attention that 7 and TTB-09 were not surveyed. ully requests to obtain Northing and tes for TTB-07 and TTB-09.	SUGGESTION:		ANSWER: Accept Suggestion: These boreholes were not surveyed. The approximates are listed in Table 3 in the Geotechr Data Report.				
-0285	BSE - Buttress Rebar Cage Length Ad	justment	Closed	03/21/2012	03/31/2012	03/26/2012	Potentia	lly 🗌
From: Balfour Bea	atty Infrastructure, Inc. Ural Yal	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:								
BBII's proposal of pre-extended leng buttress shafts the BBII had suggest cage assemblies top "setting cage" lengths of structurunchanged. BBII's proposal of by 19' got accepte vertical rebar extensions increase in duration.	FI T-0252, where the Engineer accepted f fabricating the buttress rebar cages to a gth of 260' in order to accommodate the last are deeper than 241'. In RFI T-0252, led to extend the overall length of all rebar to 260' by increasing the length of the "19 feet more. In this proposal, the laral cage segments were to remain fextending the length of the setting cage end with the added requirement of splicing ensions on the job site. BBII takes added requirement of splicing on the job site, which would lead to an ons of the rebar cage installations.	SUGGESTION:		placed up to 1 top of concret extensions sh or the cage sh However, if th 0" of the top of	'-0" below the to e is shown on G all be spliced as nall be fabricated e top of the fabr	gestion: e reinforcing steep of the concrete T-5201. Longiture needed to achied long to achieve icated cage is wind bar extensions.	e. The dinal bar eve this, this. ithin 9'-	

If the rebar cage assembly needs to be longer than 250 feet, BBII will direct the rebar cage manufacturer to also extend the bottom structural cage segment by an added distance equal to the required total length of the rebar cage assembly less 250 feet.

'+9'=250').

segment lengths will remain unchanged. The top of the structural cage sections will be within up to 9 feet proximity from the top of concrete. This proposal will accommodate the rebar cages with a maximum total length of 250' (241



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 348 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

calculation:

	bject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u> F
T-0286 BSE	E - Use of Actual	l Utility Weights		Closed	03/26/2012	04/05/2012	03/29/2012	Potentially
From: Balfour Beatty Infrast	structure, Inc.	Shad Gardner	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Transbay PMP	C Doug	glas Jacobson
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:	
Reference: Marked-Up SH-3101 Marked-Up SH-3102 Utility Weight Calculations PG&E Weights Email Verizon Weights Email Temporary Bridge specificathe bridge design to include hanging utilities below the between the RUP designer has attained the exact locatilities to be supported by weights are shown in the at been used in the design of the utility hangers. Through also know that future utilitie temporary bridges are remoted the actual utility weights.	cation 01-53-13 (1 de a 3000 lb/lf allo bridge. Extensive ers and the utility of attion and actual v of the bridge struct attached document of the bridge struct th our coordination es will not be add noved. Please co	owance for e coordination owners, BBII weight of the tures. These nt and have ture as well as n efforts we ded until the onfirm that use			Reply to RFI 2 3000lb per If i 3000lb per If i RFI T-0286.0 utilities versus Specification Bridges - Perf the correct ac application to Beale respect First Street Utin The BBI/PBA shows the foll bridge: Girder #3 & G facing north) PG&E (6) eac cable (8.2 lb/li girders #3 & # Girder #5 & G facing north) PG&E (9) eac 233.1 lb/lf und PG&E (1) eac 25.9 lb/lf und Verizon (6) ea 69.54 lb/lf und Subtotal utility #4 = 155.4 lb/l Subtotal utility #4 = 155.4 lb/l Subtotal utility  = 328.54	286.0 Use of action Specifications regarding the uses the nominal 30 Section 01-53-13 formance Requiritual weight of the each of the street ively. tility Unit Weights temporary bridgowing utilities substituted with the street ively. the 6" diameter street ively is a street ively in the street ively. the 6" diameter street ively is a street ively in the street in the street ively in the street ively in the street in the street ively in the street in the street in the street in the street	ual utility loads valual utility loads valual utility loads valual utility loads value of actual weign on loads in the second of	ht of in mporary juires ent, and t Street ne ght b/lf) + 2 ght elb/lf = lb/lf = rs #3 & rs #5



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

349 of 1053 11/05/2013

Proceed

Time: Job:

regarding the City plans not to install any additional utilities in the bridge streets until the below grade structure is completed and the streets are restored.

10:53 AM 30100

JOINI VEN	TIORE	301	30100 - Transbay Transit Center Project									
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	!			
					PVC duct ra bridge cross 3lb/lf fiber ca	ther than steel di ing (4" diameter	the weight of 4" duct used in the ter steel @ 10.3lb/lf or ss = 6ea x 13.3 lb/	mporary duct +				
					less than the	e weight for 6" dia	er steel duct is slig ameter pile Sched 5 ducts = 0.7 x 15	dule 40				
						ntial = 10.5 lb/lf + f lf = 20.8lb/lf	- (79.8 - 69.5) = 1	0.5 lb/lf				
					Corrected Unib/If	tility weight = 483	3.9 lb /lf + 20.8 lb/	/lf = 505				
					major impac	t on the tempora city/demand ratio	is unlikely to have ry bridge design t s calculated by th	pased				
					AASHTO Se Analysis) sta		eral Provisions - I	Design				
					formulae, alt theories or te	ernate rational a ests and accepte will be considere	provide for empirionalysis, based on the day the authority das compliance to	ı ⁄ having				
					 Design Ana known rathe stated in Spe 	alysis) the use of		ls now				
							oility for the staten					



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 350 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee			
	Dema Safet girder						BBI's Engineer of Record (PBA) has calculated the Demand over Capacity ratio is a minimum of 47% (2:1 Safety Factor) for the crane girders and the other girders Demand over Capacity ratio is 67% (Safety Factor 1.5:1)					
T-0287	BSE - Drain Inlet	Closed	04/04/2012	04/14/2012	04/12/2012	Potential	ly 🔲					
From: Balfor	ur Beatty Infrastructure, Inc.	Shad Gardner	To: Turner Construction Com	pan Gary Krutsch	Answered By	:URS Corporation	on David	d Fyfe				
Co-Author:												
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:					
Reference: TG0300-21 TG0300-20 City Plannir					this RFI No. T	-0287) for reviev not an accepta	r inlet detail (atta w and acceptance ble method, there	e via the				
	comply with city standards BB ndard city drain inlet on the no						solution of this costs are provided b					

In order to comply with city standards BBII intended to install a standard city drain inlet on the north west corner of the Minna and First street intersection as required by our site civil drainage plan (submittal TG0300-205.2, TZ1030-01513A08.2 see also submittal TZ1030-015313A04.1 package TG0300-210.1 for product data). When potholing where this drain inlet is to be located, it was discovered that it would be in conflict with an existing gas line. BBII's design engineer KCA contacted the city planning department and got pre approval of the attached catch basin per the attached email and details. Please confirm that it is acceptable for us to install this catch basin in lieu of what was submitted in the aforementioned submittals

What is the location (depth of cover and horizontal offsets to existing and proposed features) of the existing gas line (and electrical conduits/conductors) relative to the proposed storm water inlet?

The proposed storm water inlet appears to extend approximately 41" deep from top of rim/grade. From review of RUP sheets U-3409 and U-3410/Section T, it appears that there could be as little as 36" of cover over top of the existing PG&E gas line. If PG&E gas line is located within limits of proposed storm water inlet (plan view), there does not appear to be sufficient vertical clearance to install the proposed storm water inlet?

Specify engineered base material that is to be placed beneath proposed storm water inlet.

Provide a detailed sketch (plan and section) with submittal illustrating location of proposed storm water inlet and adjacent existing/proposed features.

Has PG&E reviewed and approved the proposed storm water inlet location?



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

351 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						mpliance with PG	e proposed storm &E separation	water	
T-0288	BSE - Request to	Relocate Rathole to D	9	Closed	04/05/2012	04/15/2012	04/10/2012	Potential	ly 🗌
From: Balfour Bea	atty Infrastructure, Inc.	Ural Yal	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST: Attached please find Becho's request to relocate existing rathole to Shaft D9 where it will remain until Buttress work is complete. Below is Becho's exact wording: "Due to the upcoming bridge construction on Fremont Street, Becho will be losing the existing location of the rathole. Becho requests that the existing rathole be relocated to Shaft D9 where it will remain for the duration of the Buttress Shaft Work. Becho proposes to pour Shaft			SUGGESTION:		ANSWER: Accept Suggestion: ARUP Response: Arup understands there was no attachment, only the one page RFI. Provided the hole remains cased at all times, or backfilled with CSLM (or an approved equal) whenever the casing is removed, this is acceptable.			or	
D9 30 to 35 feet s new rathole. Plea	short from grade to accouse advise if this is acce	ommodate the ptable."							
T-0289	BSE - Becho Rec	uesting 9-20-2011 Mee	ting Minutes	Closed	04/11/2012	04/21/2012	05/08/2012	Potential	ly 🗌
From: Balfour Bea	atty Infrastructure, Inc.	Ural Yal	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Turner Constr	uction Comr Gary	Krutsch	
Co-Author:									
TJPA's office to o Concrete Slab ar where the followi Maria Ayerdi-Kap	20th, 2011 a meeting wardiscuss Noise Issues, Cand Buttress Work. Preseng key representatives: plan, Rebecca Armenta, ne meeting minutes for the	oring thru the nt in the meeting Brian Dykes, and Steven Rule.	SUGGESTION:		ANSWER: No meeting	Accept Sug minutes were tak	gestion: en during this me	eeting.	
T-0290	BSE - Stabilization	on of Unimproved Soil	Conditions Along the Interior Fa	ce of the C Closed	04/11/2012	04/21/2012	04/18/2012	Potential	ly
From: Balfour Bea	atty Infrastructure, Inc.	Ural Yal	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y:Webcor Cons	ruction LP Davi	d Fields	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 352 of 1053 11/05/2013 10:53 AM

30100

Date: 1
Time:
Job:

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Answered	Cost Impact	Proceed	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: 31 BB	56 13 3.7 C BII Photo of CDSM Wa	II J-Line		The quality of the CDSM wall is dependent Contractors' chosen means and methods Contractor has concerns regarding the in						
	ing direction for a methil conditions along the				wall, the Conti the TJPA for c					
The current con unimproved so become detach	ndition of the CDSM will conditions that have ned from the wall and dwall. Please reference	the potential to create large voids at			Conformance with the criteria within a sample does not relieve the Contractor of their responsibility that the entire wall meet the specifications.					
specification re as per section Please note: S and 6") are sat	ecords, the CDSM wal equirements for uniform 31 56 13 of the contract Section 31 56 13 3.7 C' isfied by during the TJ ouble-tube samples at	nity and improved soil ct specifications. 's requirements (10% PA's Representative								
T-0290.1	BSF - Relevar	ace of Unimproved Soil P	ockets in CDSM Wall as it Relates t	o Waterr Closed	05/28/2012	06/07/2012	06/05/2012	Potentia	IIv 🗆	
From: Webcor		Kirk Nielsen	To: Turner Construction Com	•			ociates, Inc Georg		.,	
Co-Author:	Coc.i dollori Li	Tank Taloloon	- 3. Turrier Construction Com	pair Jary Mulson	,	-Additiouti Assi	Doiales, IIIC Georg	ge Merzger		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
	31 00 003 8 L or 07 1	2 10 3 2 C			_		0 00 / 3 8 I · "On	vortical		

anticipated +1" cavities in the surface of the CDSM wall. However there are +6" cavities in the surface of the CDSM wall the result of unimproved soil pockets although BBII would contend the CDSM wall was installed in accordance with section 31 56 13.3.7.C. On 5/25/12 W/O spoke with Jonathan Lawrence President of Laurenco Systems (888) 321-3338 specified per section 07 12 10.2.1. Sections 31

CDSM wall for two reasons:

1. Subsequent to his review of the bid documents the substrate for the waterproofing is the INS-1, depicted on 4/A1-8710, rather than the CDSM wall.

00 00.3.8.L and 07 12 10.3.2.C speak of "buckling" due to cavities of the face of the CDSM wall. Mr. Lawrence was not concerned over the cavities in the face of this project's

Per specification section 31 00 00 / 3.8 L: "On vertical surfaces of CDSM shoring walls, scarify high areas and fill in cavities exceeding 1" deep with patching cement to provide a reasonably uniform surface over which protection board, installed in a later contract, will span without buckling." Repair wall as required in the

contract documents.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

353 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

- 2. Due to the thickness of the substrate system:
- a. 1/4" Protection board
- b. 3/16" (2) plys #15 felt
- c. 1/4" Drainage composite panel.
- d. 1/2" INS-2

1-3/16" thick in total Mr. Lawrence was not concerned over a CDSM cavity less than

1'- 0" x 1'-0" x 1/2" deep.

When asked why he thought section 07 12 10.3.2.C was included in the below grade waterproofing section, if in fact the CDSM was not the substrate for the waterproofing, Mr. Lawrence responded that section 07 12 10.3.2.C was part of the Laurenco's template boiler plate specification really inapplicable to this application.

Please confirm that given the CDSM wall is not the waterproofing substrate system, rather items a-d above, and in light of the frequency of unimproved soil pockets, the project needn't infill the unimproved soil pockets less than 1'- 0" x 1'-0" x 1/2" deep.

T-0290.2	BSE - Waterproofing preparatory work on CDSM was	
1-0290.2	DSE - Waterbrooming breparatory work on CDSW W	/all

Closed

10/07/2012

10/01/2012

Potentially

From: Webcor Construction LP

Robert Kjome

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Answered By: Turner Construction Comr Stacy Wilson

Co-Author:

REQUEST:

Specification Reference: TG06 BGP 07 12 10.3.2C

Please confirm that any preparatory work of filling cavities within the CDSM wall for stabilization of the waterproofing board is the sole responsibility of the TG06.0 Trade Subcontractor

W/O comments in follow up to 9/27/12 TCCO / W/O meeting:

- 1. TG06 package is independent of the TG03 package.
- 2. BBII should refer to Earthwork specification section 31

ANSWER:

Accept Suggestion:

CM/GC to respond.

09/27/2012



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

354 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
00 00.3.8.L 3. BBII should refer to BBII 6/5/12	to RFI response #T-029	0.1 forwarded							
T-0291	BSE - Arup Request	ing Exploratory Cores on	Buttress Shaft D1	Closed	04/16/2012	04/26/2012	04/24/2012	Potentiall	у 🗌
From: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	exploratory core samples ovide direction on depths				Contractor's b drilling to asce required depth do so, and tha	est interest to pertain why they and Arup recomment a plan be devenued and eduring the	rming. It is in the erform explorator are unable to reacends that the Coreloped based on two previous atternances.	ch the ntractor the	
T-0291.1	BSE - Arup Request	ing Exploratory Cores on	Buttress Shaft D1 Follow-Up	o Closed	04/25/2012	05/05/2012	05/04/2012	Potentiall	 y
From: Webcor Cons	truction LP	David Fields	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	to revise the response to the second to the				ARUP Respoi				
"Arup is requesting Shaft D1. Please pr locations of cores."	exploratory core sample ovide direction on depths	es at Buttress s, sizes, and			proposal. Aruj		sion regarding th		
T-0292	BSE - First St Bridge	e Pier 1 Relocation		Closed	05/02/2012	05/12/2012	05/03/2012	Potentiall	у 🗌
From: Balfour Beatty	/ Infrastructure, Inc.	Ural Yal	To: Turner Construction Com	npan Gary Krutsch	Answered By	Turner Constru	ction Comr Gary	Krutsch	
Co-Author:									

SUGGESTION:



provide a "8' -high solid barrier system" consisting of 1"

plywood which does not allow viewing through the barrier.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

product). Contractor to verify alternative barrier

line obstructions (such as chainlink or other similar

355 of 1053 11/05/2013 10:53 AM

30100

Time:

JOINI VENTURE			30100 - I	ransbay Irans	Transit Center Project					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
Reference: Revised Drawings at Location The western Pier 1 C anomaly. The correpile 6'-0" south. Atta and the revised calcuto the Bridge Design review. Please confinot cause conflicts w	CIDH pile was rejected ctive action is to replached is the revised fulations. This packate reviewers on 4-24-1 irm that the new pier	ed due to an ace it with a new Bridge Drawings ge was emailed 2 for expedited 1 location does			should be sub		opriate for an RF he submittal prod nformation only			
T-0292.1	BSE - First St Bri	dge Pier 1 Relocation		Closed	05/03/2012	05/13/2012	05/04/2012	Potential	lly	
From: Balfour Beatty	Infrastructure, Inc.	Ural Yal	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger		
Co-Author:										
REQUEST: Reference: SH-2100 SH-2101 Detail: The western an anomaly. The conew pile 6'-0" south. Drawings showing nother new pier 1 location future structure. Plea	rrective action is to r Attached are the re ew pile locations. Ploon does not cause co ase note the revised	eplace it with a vised Bridge ease confirm that onflicts with the design	SUGGESTION:		to be shifted a	as depicted in thi	et temporary brid is RFI is acceptat			
documents were em on 4-24-12 for expec		esign reviewers								
T-0293	BSE - First Street	t Natoma blind spot hazard		Closed	06/05/2012	06/15/2012	06/15/2012	Potential	lly	
From: Balfour Beatty	Infrastructure, Inc.	Ural Yal	To: Turner Construction	Compan Gary Krutsch	Answered By	URS Corporati	on David	l Fyfe		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Regarding the tempor specification section	01 53 13-1.3.A.4 red	quires us to			pedestrian pro	otection to mitiga	all be provided for ate vehicle/driver	sight		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

356 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
This is creating a blind turn hazard for traffic entering First street from Natoma street on the south side of First street. Please advise on how you would like to mitigate/fix this hazard.			d height igned by rd and e of roduct other oarbed n all diffied by				
T-0293.1 BSE - First Street and Natoma blind From: Balfour Beatty Infrastructure, Inc. Ural Yal	•	Closed	06/29/2012	07/09/2012	07/09/2012	Potential	
•	10: Turner Construction	on Compan Gary Krutsch	Answered By	Transbay PMP	C Doug	las Jacobso	on
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sugg			
Please find attached sketch SK-0293 for proposed pedestrian barrier at the First st. bridge. Please confirm this is acceptable in lieu of previously installed plywood barrier.			fence with 2" r plywood barrie Secure to exis diameter galva full-length 1" x bottom wire w wire with 11 ga chain link mes	mesh along zone er on First Street ting bridge posts anized bolts 2' o. 3/16" flat bar. I ith 3/8" turnbuck auge wire ties. I sh are on top. S	alvanized chain e of previously in Temporary Brid s MC6x18 with 1 .c. on each post nstall 1/4" galv. 1 les. Secure fend couble twist end ee TJPA Spec 3 For barbed wire	stalled ge. /2" with cop and ce to s of 2 31 13	

Temporary Bridge engineer of record shall verify that the loading from 1" thick plywood to chain link mesh is not detrimental to the Temporary Bridge design.

bridge.

top, see 32 31 13 2.5 and 2.8 for requirements. Install barbed wire support arms at 45° tilted away from



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

ure

Page: Date:

Job:

357 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

				•		,			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0293.2	BSE - Blind S	pots at Fremont St. and Beald	e Street Bridges	Closed	08/13/2012	08/23/2012	08/21/2012	Potentiall	у 🗌
From: Webcor Co	onstruction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Turner Constru	uction Comr Jack	(Adams	
Co-Author:									
REQUEST: Reference:			SUGGESTION:		ANSWER: Confirmed.	Accept Sug	gestion:		
RFI T-0293.1 RFI T-0293					Reference: C	R T-043			
	ar to the those in RF na street exist at the								
exiting from 301 l	Northwest & Southw Mission and 400 Hov outhwest Corner (Car Mission)	ward)							
Please confirm the T-0293.1 should	nat similiar fencing as be installed at these	s per response to RFI locations.							
T-0293.3	BSE Blind Spe	ots at Fremont St. and Beale	Street Bridges	Closed	08/28/2012	09/07/2012	08/29/2012	Potentiall	у 🗌
From: Webcor Co	onstruction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Turner Constru	uction Comp Jack	: Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI T-0293.1 RFI T-0293.2						ner of the bridge	rsus plywood) in to eliminate bli		
confirmation for f	there was an error in encing in the Northw quest fencing in the N	est corner when it							
0293.1 should be	nat fencing as per resenstalled on Fremon rather than the Nortl	nt Street on the							
T-0293.4	BSE - Blind S	pots at Beale Street Bridge		Closed	04/08/2013	04/18/2013	04/11/2013	Potentiall	у 🗀
From: Webcor Co		Lynn Kowallis	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Webcor Co	onstruction LP	Kirk Nielsen							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI #	T-0293.2					provided the fer	nce vs. plywood l e Change Reque		



Per conversation in previous coordination meeting between Balfour Beatty Webcor, Turner, TJPA and 301

Mission; s management. We are confirming direction to extend the sidewalk past the limits shown in our grading

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

The work BBII has proceeded with at the 301 Mission driveway is in general conformance with the

6/8/12 TCCO, W/0, BBII, Millennium Mgmt. meeting.

The direction however is from, to include

358 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Fremont Stree high solid bar following loca	milar to what was alleviated ets, the result of the origina rier system", exist on Beald tions: ght at the Southwest corne	ally specified "8'- e St. at the			and 301 Miss west side only	n lieu of plywoo ion ends of the y. Fence should	d at both 199 Frer Beale Street Brido replace plywood and be installed n	je - from	
Fremont's gar 2. Making a ri Mission's gara down Beale th Please confirr	age. ght at the Northwest corne age (the concern being if so ne wrong way.) m if and where chain link, s FI response #T-0293.1, is	r exiting 301 comeone is coming cimilar to what was				action gate - veri			
T-0294	BSE - Expected (CDSM wall deflection		Closed	06/14/2012	06/24/2012	07/02/2012	Potential	lly
From: Balfour	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction Comp	oan Gary Krutsch	Answered B	:Turner Constr	uction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
CDSM wall ob and used to d	the anticipated deflection of tained in ARUP's design of etermine appropriate action action 31 09 13.	of the shoring wall			rejected as or unrelated to a contract or th use of an RFI specified in s	verly broad, burd any legitimate er e required work. . Please follow ection 31 09 13	ontained in this RI densome and seen quiry relating to the properties of the propert	mingly ne oper ım	
T-0295	BSE - 301 Missio	on drive way		Closed	06/19/2012	06/29/2012	06/24/2012	Potential	lly
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered B	:Webcor Const	truction LP Kirk N	Nielsen	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Rollo, the highlighted words, "with and has reviewed".

359 of 1053 11/05/2013 10:53 AM

30100

Date: Time:

Job:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Mission dri directed to	ge submittal through the lir ive way. It is also our under match the color of the exis a. Please confirm.	standing that we are			00 08 13.1.8.I Excavation Pe	E, 0115 40.1.4, a ermit #12E-0181	act specification and or General . The TJPA is no sult of this issue.	t	
0296	BSE - Clarifica	ation of Soil Segregation	and Disposal per spec. section 0	1 13 50/SM Closed	06/27/2012	07/07/2012	06/29/2012	Potential	ly
From: Web	cor Construction LP	Kirk Nielsen	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Transbay PMP	C Roge	r Rothenbu	ger
o-Author:									
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
On 6/26/12 BBII clarified their desired method / location of disposing of the Zone-3 concrete rubble was to deliver it to Brisbane.					Part 1.1.C (Ha Summary) ref	azardous Materia erences "Site Mi	12 Section 01-13 als Procedures - itigation Plan, Tra ollo, March 24, 2	ansbay	
Section 01	13 50 / 5.2.1 of the SMP s	tates:			report and sta	tes,	,		
Section 01 13 50 / 5.2.1 of the SMP states: "TJPA shall be provided documentation from the excavation contractor that the accepting landfill for the soil from Transbay Terminal project has been provided with and has reviewed all analytical data collected from the Site." Brisbane has refused to provide the aforementioned					existing soils in requirements following reposition Transit Cente	in a manner contract I of the Contract I rts, "Site Mitigati r, Treadwell & Ri	le the manageme sistent with the Document includi ion Plan, Transba ollo, March 24, 2 13 50/APA, and	ng the ay 010",	
disposing of that the TJ rubble, tha	facilitate BBII's desired me of the Zone-3 concrete rubt IPA clarify, exclusively for the the documentation requirenly of standard shipping tag	ole W/O requests he subject Zone-3 ed by the TJPA			Treadwell & R states, "Befor Site, TJPA sh excavation co for the soil fro provided with collected from disposal facili including, with coverge, and waste materia	collo Site Mitigation and excavation all be provided on tractor that the morand has reviewed the Site. Typa ties and soil transout limitation, as prior to the shiprolls (emphasis ad	on and Disposal) on Plan, 01-13-5 activities begin documentation fro accepting landfil minal project has idall analytical dashall approve all sportation contravailable insurable ment of any soil of ded)."	O/APA at the om the I facility been ta off-site ctors, or other	
					to Brisbane a	nd other disposa	I sites removes f 2.1 by Treadwell	rom	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcorrobayasın John Ventüre

Page: Date:

Job:

360 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
	from "ana				from BBI (the "analytical dat	The only requirement is that some documentation from BBI (the "excavation contractor" that the "analytical data collected from the Site" has been provided to the disposal site.					
T-0296.1	BSE - Clarific	ation of Soil Segregation	and Disposal per spec	Closed	07/02/2012	07/12/2012	07/02/2012	Potential	ly		
From: Webcor	Construction LP	Kirk Nielsen	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Turner Constru	uction Comr Jack	Adams			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
	T-0296 was overly broa evious conversations be				3 rubble, the o	documentation r	vely for the subject equired by the TJ ping tabs and inv	PA			
RFI T-0296 In	quiry:										
	BII clarified their desired he Zone-3 rubble was to										
Section 01 13	50 / 5.2.1 of the SMP s	states:									
excavation co	e provided documentati ntractor that the accept y Terminal project has b	ing landfill for the soil									

In order to facilitate BBII's desired method / location of

Brisbane has refused to provide the aforementioned

and has reviewed all analytical data collected from the

disposing the Zone-3 concrete rubble W/O requests that the TJPA clarify, exclusively for the subject Zone-3 rubble, that the documentation required by the TJPA consists only of standard shipping tabs and invoices.

RFI T-0296.1 Inquiry:

Site."

documentation.

Please confirm, in order to facilitate BBII's desired method / location of disposing the Zone-3 concrete rubble W/O



Please advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 361 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Zone-3 rubbl	it the TJPA clarify, exclus le, that the documentation its only of standard shippi	n required by the							
0297	RSE - Phase 2	Utilities on Beale Street		Closed	06/28/2012	07/08/2012	07/10/2012	Potential	
	or Construction LP	Joanne Filipas	To: Turner Construction Co				nical Service Eric		'y
co-Author:	or construction Er	odanne i mpas	10. Turner Construction Co	inpan Gary Kruisch	Allswelled by	ALCOM TECH	lical Service Life	Zagoi	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference at	ttached sketch.				The Beale Str	eet Phase I tem	porary utilities w the CDSM shorii		
Street tempo sketch. Plea	bcontractor is proposing to orary bridge to the east; s ase confirm if this will imp PG&E phase 3 on Beale s	imilar to the attached act any future			The RUP proj will not be sus Street. In the Beale Street v area above th	ect design intenspended from the future, permane will be constructed Transit Center	t is that Phase II e temp bridge in nt Phase II utilitied within a desig train box termed inate your work v	utilities Beale es on nated d the	
0298	BSE -Timber	Pile Extraction at grid line	19 to 20 and 24 to 25	Closed	06/29/2012	06/29/2012	07/02/2012	Potential	lv 🗆
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo		,
o-Author:				,	-		•	0 0	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
zone 2 on 06 ARUP incline with the timb	ted the timber pile extract 6/12/2012. Based on the cometers, please advise if per pile extraction at grid lusing non ground deformee pull').	data recorded by BBII can continue ine 19 to 20 and grid			6/29/2012 AR		This is acceptab	le.	
The attached reference.	d drawings (D-21 02 and	D-21 03) for							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 362 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
-0299	Micropile Perform	ance Testing		Closed	07/16/2012	07/26/2012	07/30/2012	Potentia	lly
From: Balfour Beat	tty Infrastructure, Inc.	Ural Yal	To: Turner Construction Com	pan Gary Krutsch	Answered By	/ :Arup	Kevir	n Clinch	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Secti In order to expedit review period, BBI	e the Micropile Performall is requesting to condu	ance Testing ct the			contractor sha proof tests co micropiles. Th	all conduct perfo	3 3.2 A states: The state and some contract testing or contract testing or contract in the state at the state	t n	
5, at approximately installation of Leve	ng of micropiles prior to y -32' Elevation, concurred "0" struts. See attache of the struts is acceptable to the structure of the structure	rent with the ed sketch for			testing metho in the Project assuming the will be installe those of the p the piles insta	dology and the a Specifications h piles used for the d and tested in roduction piles. alled and tested a	not acceptable as acceptance criter have been develone performance to conditions match The performance as proposed will desses in the soil.	ia ped ests ing of	
-0300 From: Balfour Beat	Micropile Perform	ance Test Pile Relocati Yuriy Stryzheus	ons To: Turner Construction Com	Closed	07/17/2012 Answered By	07/27/2012 /: Arup	07/26/2012 Kevii	Potential	lly
Co-Author:	.,	,,	Tarrer Constituent Con	pan Gary radioon		, - л н ар	1.0711		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	BII's micropile layout sub ces IFB- Below Grade p cropile layouts.				Arup takes no	. •	e proposed locati	ons	
layout drawing and 2023 through S1-2	rmation provided within I d Below Grade package 2027, the four micropiles ng are labeled as: W411	drawings S1- s subjected to							
	onduct the performance tead of pile No. W411, v No. 6 & 7.								
W473, E477, & E5	uests to test the piles no 599, instead of the piles 401, which are located u	numbered as							
Please confirm that	at it is acceptable.								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 363 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

completing the CDSM wall processes.

lumber	Subject			Status	Date Created	Date Required	Date d Answered	Cost Impact	Procee
-0301	Trestle Piles in	Exclusion Zones (Zone 4)		Closed	07/23/2012	08/02/2012	07/30/2012	Potential	ly 🗌
From: Webcor Cons	struction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
directed BBII to shi pile exclusion zone response to RFI T- zones to the extent additional buttress trestle pile location avoid both the perr aware of the possis additional buttress specific conflicts. D	0251.1). BBII worked to possible. However shafts created furth a and it was infeasi manent structure an bility of eliminating shafts but this will reduce to the congestic	#69 H) out of rnton Tomasetti in ed to avoid these , in zone 4 the ler limitations on ble to completely d buttress. BBII is ome of these not resolve these on in Zone 4 with ed buttress shafts,		Requested exceptions will be granted for loca trestle piles #69 and #72 in submittal TG0300 Prior to proceeding the GC is to confirm this has cost impact to the TJPA or impact on other transfer impact on the transfer impact to the TJPA or impact on other transfer impact on the transfer impact on the transfer impact of t				-284. as no	
-0302	ISI Low Comp	ression Strength for CLSM		Closed	07/31/2012	08/10/2012	08/10/2012	Potential	ly 🗌
From: Balfour Beatt	ty Infrastructure, Inc	c. Ural Yal	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constru	uction Comp Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
CLSM, in the ISI te (attached), are acc trench backfill on GSt. and Fremont St Please see attache 55606 Compressio lines, sampled 3/255607 Compressio lines, sampled 3/365608 Compressio lines, sampled 4/4/51399 Compressio lines, sampled 3/26	eptable. The CLSM Gridline A, First t. ed ISI Test reports: on Test Report on A 9/2012 on Test Report on A 9/2012 er Test Report on A 9/2012 on Test Report on A 8/2012	J			pre-trench bar Subcontractor confirmed with 1. TJPA Spr trenching to b satisfactory m 2. These Slr backfill as a ¿ 3. There is r	ckfill Slurry(CLS r in lieu of component in lieu of	erials were allow	e Trade his was 3.1. pre- ed for	
25.5 lines, sampled		into Detween 20.2 -			A review of the below) are co	Slurry(CLSM) s e ultimate streno nsistent with the	the CLSM mix is strength data only gths (attached an strength of com fill areas prior to	/ nd	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 364 of 1053 11/05/2013 10:53 AM

Time:
Job:

Cost

Impact Proceed

10:53 AM 30100

30100 - Transbay Transit Center Project

Lab ID No.: 55607 MIX 400FLO Bode

90 Days avg. >160psi

TG03/IR 935

Number	Subject	Status	Date Created	Date Required	Date Answered
			Lab ID No.: 5139	96	
			TG03/IR 917		
			Mix FOA100CX	Central	
			35 Days 170psi		
			Lab ID No.: 5139	99	
			TG03/IR 933		
			MIX 400FLO Bo	de	
			90 Days avg. 18	0psi	
			Lab ID No.: 5560	00	
			TG03/IR 913		
			Mix FOA100CX	Central	
			39 Days avg. 13	0psi	
			Lab ID No.: 5560	ne	
			TG03/IR 934	00	
			MIX 400FLO Bo	de	
			90 Days avg. >1		



Wooden obayasın odnik Venikare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 365 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
					Lab ID No.: 5	5608			
					TG03/IR 949				
					MIX 400FLO	Bode			
					90 Days avg.				
					oo Days avg.	>100p3i			
					Lab ID No.: 50	6162			
					TG03/IR				
					MIX 400FLO	Bode			
					120 Days 160	psi			
-0303	BSE - Verizon	Duct Bank at the First St	Bridge	Closed	08/07/2012	08/17/2012	08/08/2012	Potential	ly 🗌
From: Webo	cor Construction LP	Kirk Nielsen	To: Turner Constru	ction Compan Gary Krutsch	Answered By	:Turner Constru	uction Comr Stac	y Wilson	- Ш
Co-Author:									
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached Pl	hoto				8/8/2012 Per	Steve Cunningh	nam, TCCO -		
		staking and			Review attach	ned drawing prov	vided by BBIi:		
cutsheets, t First St. brid elevation (to supports wi	ite providing Verizon surveying, staking, and leets, the Verizon duct bank at the North side of the St. bridge was installed by others at the incorrect tion (too low). Please confirm if additional utility orts will be required of TG03 or if others will be rming the additional utility supports required for the				Bridges, Deta	il 1/SK 3105. Ho	Beale Street Ter prizontal layout is out for the PGE do		
Verizon duc		ons required for the				om elevation for	00-0316, dated 1/ Verizon duct bar	•	
					Confirm PGE		ions of all duct ba anks were installe oridge.		



REQUEST:

In follow-up to RFI T-0304:

- From the response to question #2 of RFI T-0304 it is

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

366 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion: Arup's recommendations in RFI T-0209.3 may be

applied to the east CDSM shoring wall.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Proc	ee
Γ-0304	BSE - Inquirie	es with Regard to Propos	ed Beale St Bridge Atop East CDSM Wall	Closed	08/23/2012	09/02/2012	08/27/2012	Potentially	7
From: Webcor Cor	struction LP	Kirk Nielsen	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	_
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
returned to W/O m W/O's review of BBII's Bethe following inquil 1. BBII's bridge de 0209.3 (Exhibit-B) #T-0209.3 (Exhibit design for the Bear Fremont Streets, the length the East CDSM was considered on the CR #T-025 load (Exhibit-D). Given soldier piles (by others) and Zone-1 and Zone-CR #T-025 testing application and configuration? 3. BBII's Beale St. length of the Beale As the designer of the CD	eale St. bridge desiries relative to the Consign relies on ARU. Please confirm AFL-C) is applicable as alle St. bridge, given to of the Beale St. briall. allow the North and coated atop the Considering reference the testing reference the testing was performed differing soil conducted at the load capacity of the load capacity is the load capacity is the load capacity of the bridge design relies at the bridge design relies at the string at the load capacity of the loa	gn W/O encountered CDSM wall: IP's RFI response #T-RUP's RFI response is the basis of the unlike First and ridge is resting atop d South bridge SM wall was a RFI #T-0209.4 fformed on different inditions between city derived from the rent bridge location as on resting the e East CDSM wall.			one part of the review the description of the recommendation conformance review for corpole locations trainbox, etc. 2. Our design solely by the Contral review of the contral review of the contral review of the solely by the solely by the contral review of the contral revi	e Contractor's be sign for conformations. Note that with the geotech structability, personal conformation of the conformation	design decision iew the design for	rup will / for idations; OCS n of the rmed s made	
Γ-0304.1	-		ed Beale St Bridge Follow-Up	Closed	08/29/2012	09/08/2012	08/31/2012	Potentially]
From: Webcor Cor	nstruction LP	Kirk Nielsen	To: Turner Construction Compan Ga	ry Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 367 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
not informe the original from the CF bridge locat - So the cor we are subi	that ARUP's design record solely by the load testing question remains, is the load testing applicable to and configuration? Intractor can understand the mitting, was the Shoring Was loads imposed by the properties of the solely applicable to the	g results. However coad capacity derived e given the different se parameters of what Vall Designed to			loads, but we capacity and 0209.3. If the	have estimated outlined this in o bridge bears on	gned to support wits vertical load of ur response to R the wall, we reco	arrying FI T- ommend	
0305	BSE - Inquirie	es Regarding Proposed B	eale St Bridge Relative to Below Gr	rade Stru⊢Closed	08/23/2012	09/02/2012	08/27/2012	Potentia	lly 🗌
From: Webo	cor Construction LP	David Fields	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author:									
On 8/22/12 returned to proposed b structural si utilizes the restrain late Upon W/O's encountere structure: -Do the beli the addition	Beale St. Bridge submitta W/O marked not reviewed ridge relies on the eastern upport along the bridge. A additional capacity of the in eral loads imposed by the least review of BBII's Beale St d the following inquiries re- tow grade foundation walls all capacity required to sup the proposed Beale St. b	al TG0300-206 was d. In lieu of piers the a shoring wall for s a result, the design internal bracing to bridge. t. bridge design W/O elative to below grade as designed have oport the lateral loads	SUGGESTION:		calculations a				
achieve add	low grade foundation walls ditional strength prior to re of the additional laterals lo y the proposed Beale Stre	moval of re-bracing pads in which they are							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

368 of 1053 11/05/2013

30100

Time: 10:53 AM

Number	Subject	Subject			Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0306	BSE - Pedestr	ian Connection Across the	e Construction Excavation at Beale St	Closed	08/23/2012	09/02/2012	08/29/2012	Potentially	y 🗍
From: Webcor Con	struction LP	David Fields	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference: TG030 Drainage Plan - Be	0-221 BBI - Temp eale St	Bridges - Civil and			pedestrian tra	vel though the p	n-grade sidewalk arcel "Lot-N"duri et Temporary Bri	ng the	
proposed Beale St for pedestrian trav- confirm this is acco connection across	cation section 01 5: t. bridge utilizes an el though the parce eptable and that no the construction en the entire required	on-grade sidewalk el "Lot-N". Please e other pedestrian ecavation at Beale St.					use until the com per Spec. 01-14		
Г-0307	Re - Bracing [Drawings		Closed	08/23/2012	09/02/2012	08/24/2012	Potentially	y 🗌
From: Webcor Con	struction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	ction Comr Stac	y Wilson	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference:					Reference Sp	ecification Section	on 01 10 40, 1.6	С	
Spec. Section 31 5 Drawing S1-1112	55 00				This RFI has b	peen rejected.			
for the Below Grad	the re-bracing BBII de Package. Please in AutoCAD and PI	provide these							
Г-0308	BSE - Phase 2	2 Extension During the Se	rvice Life of the Beale St. Bridge	Closed	08/27/2012	09/06/2012	08/29/2012	Potentially	y 🗌
From: Webcor Con	struction LP	David Fields	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	ction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	St. Bridge submitta narked not reviewed				extension will		nase two train botted during the life		
eastern shoring wa this configuration t grid line 35.25 will entire life of the bri including S1-2027 extends the underg	all for structural sup the eastern shoring have to remain in p idge. Multiple contro (Exhibit-A) elude to ground portion of th	place throughout the act documents o a "Phase 2" which				, ,	-0-		



From: Webcor Construction LP

Co-Author:

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By:Transbay Joint Powers Au Edmond Sum

369 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	the "Phase 2" package luring the life of the Beal								
0309	BSE - Traffic (Control During the Constr	ruction of the Beale St. Bridge	Closed	08/27/2012	09/06/2012	08/29/2012	Potential	
From: Webco	r Construction LP	David Fields	To: Turner Construction Compar	Gary Krutsch	Answered By	Turner Constru	ction Comr Jack	Adams	
o-Author:									
Beatty preser Beale St. brid 70-2 the cons down to two a	2 TJPA Traffic Coordinated a construction plan lge. In violation of Specific struction plan included reavailable traffic lanes for n. Please confirm if this i	for the proposed fication Section 01 15 educing Beale St. an approximately six	SUGGESTION:		(including up to with Spec and Spec 01-15-70 Contractor word) 1. Submit a trace 2. Submit a ST Request. SPEC Section Paragraph 3.5 A. Contractor of from the SFM requirements of Specifications, issue of the Specifica	o a full street clos FMTA Blue Bo TRAFFIC ROUld have to: offic control and TP Request - Spontage of the street of	duce traffic lanes osure) if they comook requirements JTING WORK the detour plan. Decial Traffic perror FFIC ROUTING V FFIC PERMIT Special Traffic Pertion from the traffic.), as shown in the SFMTA approves ermit, the Contract A, as specified in	nit VORK Permit ic lane ese the tor shall the	
0240	Clarification	on Suma Dit I continu		Classed	09/29/2012	00/07/2012	00/07/2012	Potential	

To: Turner Construction Compan Gary Krutsch



015313A31.1) calls for the 48" diameter CIDH column to be located 21'-6" off 35-line along E-line. As per sheet A1-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

TG0300-206 Temp Bridges- Beale Street Structural

Drawings and Calculations.

370 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

			<i>J</i>	<u> </u>					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
The current coreceived in RF correspond wi		up pit locations, 3/2011) do not g GT 2101, 2102,	SUGGESTION:		ANSWER: Refer to ASI 9 of electronic fi		gestion: with the CMO for	transfer	
2103. Flease	committee correct sump p	it location.							
T-0311	Subgrade French	Drains Along CDSM Wal	ı	Closed	08/31/2012	09/10/2012	09/07/2012	Potential	ly 🗌
From: Balfour	Beatty Infrastructure, Inc.	Ural Yal	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST: Spec. Reference: 31 00 00 In order to control surface water at final subgrade, Balfour Beatty would like the option of installing (a) trench drain(s) per the attached drawing as necessary around the perimeter of the excavation just prior to or once final subgrade is established. These trench drains will be filled with % drain rock in accordance with specification section 31 00 00-3.16.A. These trench drains will be left in place during micro-pile installation and remain below the mud slab. Water will be pumped out of these trench drains using sump pumps and/or routed to dewatering wells in accordance with specification section 31 23 19. Please confirm that this is acceptable.					to geotechnical incur any addition of mitigation for a specified in Set ACCEPTANC defined in this continuous rui wall."	al engineering a tional costs to t these drains is CDSM walls wh ection 31 56 13 E CRITERIA, It same specifica nning or seepin	not an appropriate ich are not watert Chapter 3.12 em F. "Watertigh ation section as "n g water from the s	e ight as t" is o shoring	
T-0312	Proximity Inquiry	as to Beale St. Bridge Pi	e Location	Closed	09/19/2012	09/29/2012	09/20/2012	Potential	ly 🗌
From: Webcor	Construction LP	Kirk Nielsen	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Turner Constr	uction Comr Stacy	/ Wilson	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII's sheet 1	/SH-2105 (BBII submittal T	Z1030-			RFI will not be	responded to p	oer submittal resp	onse	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 371 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSI	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

2817 (TG06) the proposed location would obstruct, requiring redesign of the reinforcement, the construction of the structural wall separating the (2) deep pits depicted on 1/S1-3007 (TG06) in room B2761. The location of the pits and the wall separating the (2) pits were always depicted on S1-2027 (TG03). May the aforementioned CIDH column be located as proposed?

T-0313 Micropile Layout

From: Webcor Construction LP Robert Kjome

Co-Author:

REQUEST:

Reference Documents Specification Section: 31 63 33 Drawings: ASI #0097

Per 9/12/12 Turner BSE Progress Meeting, Adamsons Associates(AA) requested BBII to submit a RFI requesting distance tolerances for the proposed micropile layout relocations. Please see BBII's verbage below in response.

The response comments provided to submittal TA1020-316333A12.2 (TG0300-622.2) for micropile stated that the submitted micropile layout was unacceptable, but that the micropile locations shown in the TG0600 (ASI 0097) documents are acceptable. The attached marked up coordination drawings show the locations of the TG0600 documents micropile locations compared to various overhead horizontal and vertical obstructions. The obstructions considered in this comparison include trestle pile and bracing; internal bracing struts, supports, and pin piles; bridge piles; and the buttress walls. The submitted micropile locations are also shown.

The equipment that will be used to install the micropiles require 2.5 feet clearance from the center of the micropile hole to surrounding obstructions. The circles and arrows on the attached drawing indicate which micropiles do not have the required clearance and which direction of shift is preferred. The maximum shift is 4 feet, which occurs when a micropile is located directly below an internal bracing

Closed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

09/13/2012

09/23/2012

09/20/2012

Data

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

It is acceptable to use the first contractor-proposed approach (number 1), that of using the TG0600 documents for micropile layout and shifting the micropiles up to 4 feet, however such shifts will be subject to design verification and SEOR approval following our receipt of final proposed locations. Note that the shifting of micropiles shall adhere to submittal notes 2 and 3 on sheet ML-1 of Submittal TG0300-622.2 (TA1020-316333A12.2). Micropiles shall not be installed in the buttress shafts.

The alternative contractor-proposed approach (number 2), that of using the submittal (TG0300-622.2) layout and applying submittal notes 2 & 3 is not acceptable as the approach does not consider submittal note 1 (which addresses the density of micropile layout).



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

372 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact Pro	ceed

strut.

Please confirm that the micropile locations shown on the TG0600 documents are to be used for the micropile layout, and that a shift of up to 4 feet in the directions shown on the attached drawings is acceptable.

As an alternative, BBII would prefer to use the submitted layout which has fewer conflicts. Micropiles would be eliminated or added per notes 2 and 3 respectively on sheet ML-1 of the returned submittal. The submitted micropile layout contains 1858 each micropiles. The TG0600 documents contain 1860 each micropiles. By eliminating piles per comments 2 and adding piles per comment 3, the total quantity would be approximately the quantity in the TG0600 documents.

Please confirm which of the two alternative approaches to micropiles layout is acceptable, or if both approaches are acceptable.



From: Balfour Beatty Infrastructure, Inc.

Co-Author:

Ernie Cortez

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 373 of 1053 11/05/2013

Date: Time: Job:

Answered By: Adamson Associates, Inc George Metzger

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0314	Permit Clarific	ation		Closed	09/14/2012	09/24/2012	09/19/2012	Potentiall	у
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Turner Constru	ction Comr Jack	Adams	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Contractor is of Francisco Dep including, but a Architectural, I To date TJPA and has distribt to be authorized Please confirm	Decification section 01 1- directed to obtain permit partment of Building Insp not limited to: Excavation Mechanical, Plumbing, a has been acting as the puted permits for work of		Specification ¿ Application approvals, an shall be perfo Appendix A of stipulated in S - Refer to spe application for - Specification actually require	by the Contractor for permits, regular request for contract as follows of this section (01 Section 00 07 00 redification 01 14 or permits. In section 01 14 or section 01 01 or section 01 01 or section 01 01 or section 01 or se	rect reading of the control of the c	2 states ns, ions ce with d as ions.; g			
Г-0315	Performance 1	Test Micropile Layout		Closed	09/17/2012	09/27/2012	09/27/2012	Potentiall	у 🗌
From: Balfour B	Beatty Infrastructure, Inc	c. Ural Yal	To: Turner Construction Comp	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
	ecification: 31 63 33		SUGGESTION:			Accept Sug	e 1 test pile and		
Drawing S1-20 micropile on g locate the Zon than 1 test pile additional test verification of on additional ctest piles in oth acceptable to	awing: S1-2022 D22 shows the Zone 1 pridline E near gridline 2. the 1 test piles per the attext will be installed at this piles are to be installed design assumptions. The cost and will not take the her zones. Please confininstall the performance with on the attached draw	BBII proposes to cached sketch. More location. The at BBII's option for ey will be installed at a place of any other m that it is test micropiles at the			test pit area d micropile perf	lefined in attache	st) Zone 1 test ped RFI sketch. To ill only satisfy or specification.	hese	
Г-0316	Becho's Requ	est for Modification of Sha	fts T3.5 and T4.5	Closed	09/20/2012	09/30/2012	09/21/2012	Potentiall	у 🗌

To: Turner Construction Compan Gary Krutsch



R2) states that GHEX piping loops shall be installed 24" below the mud slab, drop in elevation with the contours of any

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 374 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Specification Reference: 31.63.29 Drawing Reference: GT-2201			This is acceptable. However, the shafts shall be placed symmetrically as shown on the drawings. That is, the overlap of the primary and secondary shafts shall be the same at each side. The Contractor's proposal to shift shaft T3.5 to the north is not					
Reference attached Becho Letter BI-0271.								
Becho recognized that the shaft installed on 9/13/ (believed to be T3.5) was poured in the location o Buttress shaft T2.5. Attached is Becho's proposal the installation of Buttress Shaft T2.5.	f		acceptable.	61.41. 10.0 10				
Please confirm that Becho's proposal is acceptab	e.							
-0317 Demolition and Excavation	on Limit Associated with the Sub Grade	Closed	09/21/2012	10/01/2012	09/27/2012	Potential	ly	
From: Balfour Beatty Infrastructure, Inc. Joe	Chapman To: Turner Construction Cor	npan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	e Metzger		
Co-Author:								
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Specification: 31-00-00 Reference Drawings: GT-2101, D-5100, S1-2022, 2022	M1-		removal with t slab depression	the depth of ear	ate the depth of cut thwork required for geothermal loop p Shafts shall be that	mat iping.		
Drawings D-5100 shows the demolition depth of the Buttress Shaft to EL -41.5', and the demolition depth of the Natoma Piles to EL -44.5'. Please confirm that elevations are sufficient for future trades, and slab depressions.	oth of the these		required to re- the 80 Natom	ceive the geothe	ermal piping; the to at least 1'-0" belov	p of		
-0317.1 BSE -Demolition and Exc	avation Limit Associated with the Sub Grade Fo	ollow-Up Closed	10/01/2012	10/01/2012	10/09/2012	Potential	ly 🗌	
From: Webcor Construction LP Davi	d Fields To: Turner Construction Cor	npan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	e Metzger	. П	
Co-Author:								
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:			
BSE Drawing M-0006 states that GHEX piping loc be installed 12" below the mud slab.	ps will		Natoma shori	ng wall to 3'-0" l	ptotype and the 80 below the subgrade vation shown on the			
Below Grade Drawing M-0006 (Issued with FO T-	00010			nackage drawing		•		



From: Webcor Construction LP

Co-Author:

REQUEST:

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Turner Construction Comr Jack Adams

Accept Suggestion:

ANSWER:

375 of 1053

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

			_	Date	Date	Date	Cost	
umber Subject			<u>Status</u>	Created	Required	Answered	Impact	Procee
depressions while maintaining 24" of depth,	and offset							
where required around Micropiles and Trestle Piles	S.							
BSE Drawing D-5100 dictates a specific der of - 41.5' for the Drilled Shaft Prototype and 80								
Natoma shoring wall.								
Given the disparity above and the revision to within FO-00010 R2 W/O has detected the f conflicts to Geothermal Piping Loops:								
- 80 Natoma Shoring wall with Pit location at - 44' - 9' Final Subgrade Elevation)	t Gridline H-2 (
- Drilled Shaft Prototype (- 41' - 5" Final Sub Elevation)	ograde							
Please specify a specific grade to demolish aforementioned obstructions in order to avoiping loops and advise as to any additional conflicts.	the id the GHEX							
	olition Limits Relative to	Sub Grade Elevations	Closed	10/15/2012	10/25/2012	10/19/2012	Potential	ly
From: Balfour Beatty Infrastructure, Inc.	Joe Chapman	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Arup	Kevir	n Clinch	
Co-Author:								
REQUEST: Please confirm that the demolition elevation the response to RFI T-0317.1 also apply to the buttress shafts.		SUGGESTION:		ANSWER: This is correct	Accept Sug	gestion:		
-0317.3 BSE - Demolition of	80 Natoma Wall and Pro	stotyna Buttrass Shafts	Closed	12/19/2012	12/26/2012	01/03/2013	Potential	IIv 🗆

To: Turner Construction Compan Gary Krutsch

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

376 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

Specification Reference: 02 41 01 Drawing Reference: D-2210

Demolition of the prototype shafts and the 80 Natoma CDSM wall are required in order to allow clearance for the geothermal piping. BBII proposes to only demolish portions of these structures which would interfere with the geothermal piping. The prototype buttress shafts would be demolished to elevation -41.42 with depressions cut out where the piping crosses. The 80 Natoma CDSM wall would be demolished to allow the piping to be installed. The CDSM piles would be otherwise cut off 4" below mud slab subgrade. See attached sketches.

Please confirm this is acceptable.

No. The excavation limits for BSE contractor 80 Natoma/Buttress prototype and CDSM prototype are to be demolished to a depth of -44'.5 in their entirety.

The demolition limits for BSE contractor are to be per contract. REF: BSE Drawing D-2210 and RFI 317.3 response.

CSM Prototype shoring wall -44'.5 +/- See D-2210 Note 10 for the entire length CDSM 80 Natoma shoring wall -44'.5 +/- See D-2210 Note 11 for the entire length 80 Natoma Piles -44'.5 +/- See D-2210 Note 11 for the entire length Buttress prototype shafts -44'.5 +/- See D-2210 Note 9: This is CHANGED from -41.5' (CR forthcoming) and is now to be demolished to a depth of -44'.5 for the entire length per this RFI series.

Additional Costs associated with ASI No. 0099 Field Order 08-04-CMGC-000-T-00014 which updated pit depths and locations impacting the Mat Slab (Transmitted to WOJV on 12/12/12) are a separate issue than this RFI.

REFERENCES:

BSE Drawing D-2210 and RFI 317.3 response. BSE RFI 317.3 response. BSE Drawing set Detail 5/S1-3003. Tolerances of final subgrade is +/- 0.5" per BSE Spec. 31-00-00 Para 3.17 ASI No. 0099 was issued to WOJV on 12/12/12 as Field Order 08-04-CMGC-000-T-00014 with updated pit depths and locations impacting the Mat Slab.

BGP Contractor Submittal Geothermal Piping TG0601-009 and BGP Trenching Spec. 31-23-34

T-0317.4 BSE - Zone 4 Demolition and Excavation Associated with Sub Grade 06/18/2013 Closed 06/28/2013 07/08/2013 Potentially

To: Turner Construction Compan Gary Krutsch

From: Webcor Construction LP



Please confirm the TG06 drawings supersede the TG03 drawings and should be used for construction.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 377 of 1053 11/05/2013 10:53 AM

Time: Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Reference RFI: T-0317.1, T-0317.2 Please confirm that demolition and excavation in areas buttress shafts in Zone 4 shall be at the final subgrade elevation of 41' - 5". The Geothermal Subcontractor sh provide demolition and excavation for their geothermal piping in accordance with specification section 31 23 3	all		subgrade elev drawing GT-2 Which Subcolexcavation for coordination is NOTE: 1. Subgrade eduration GT-2 2. Demolition piping is not for 34.BGP Contract	at Zone 4 Buttre ration of 41' - 5" 103. Intractor provide geothermal pips sue. Elevation of pits 103 as modified and excavation bund in specific act drawing 4/N drawing M-000	gestion: ss removal area fiper BSE Contracts "demolition and bing" is a CM/GC is per BSE Contract by FO T-00010 Findepths for geotheration section 31 2 M1-5002 and notes for provide detail or	ict 32. rmal 3 5 on	
•	Elevator Pit Locations and Dimensions	Closed	geothermal pi	10/04/2012	09/25/2012	Potential	Ily
From: Balfour Beatty Infrastructure, Inc. Jeff Mollo co-Author:	y To: Turner Construction Comp	oan Gary Krutsch	Answered By	Turner Constru	uction Comr Stacy	Wilson	
REQUEST: Reference Specification 31 00 00 The Below Grade Package drawings identify the depression required in the sub grade for future construction of elevator pits and sump pits. The below grade package drawings do not correspond with the Buttress, Shoring and Excavation (BSE) contract draw for the location depth and size of the elevator and sum pits.			CM/GC was s the Below Gra trade package	olely for coordir ade and Buttres	gestion: 00 drawings to the nation purposes be s/Shoring/Excavat	etween	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

378 of 1053

Time:

10:53 AM 30100

umber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
-0318.1	Verification of Sur	np Pit and Elevation P	it Locations and Dimensions	Closed	10/03/2012	10/13/2012	10/03/2012	Potential	iy 🗌
From: Balfour Be	eatty Infrastructure, Inc.	Jeff Molloy	To: Webcor Construction LP	Joanne Filipas	Answered By	:Webcor Const	ruction LP Joanr	ne Filipas	- Ш
Co-Author:									
information requi	se to RFI 309 does not pri ired for BBII to proceed. I evating sump and elevator	t is BBII intent to pits per the	SUGGESTION:		ANSWER: Refer to Field	Accept Sugr Order 10R2.	gestion:		
unless clearly dir	Shoring and Excavation corected otherwise. most current drawings tha np pit locations.	-							
-0319	CDSM Connection	ı to Waler Breaks		Closed	09/25/2012	10/05/2012	10/01/2012	Potential	
From: Balfour Be	eatty Infrastructure, Inc.	Dean Wallahan	To: Turner Construction Compa	an Gary Krutsch	Answered By	Turner Constru	ıction Comr Jeff T	hiel	- Ш
Co-Author:									
	5/12 2:34pm W/O / TCCO ease find attached BBII's		SUGGESTION:		ANSWER: Due to file size	Accept Sug			
	SM Connection to Waler B								
-0319.1	Request for evaluation	ation of necessity of N	orthwest corner channels levels C&	D. Closed	10/10/2012	10/20/2012	10/11/2012	Potential	ly 🗌
From: Webcor Co	onstruction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
channels, pursua	0/12 MRP meeting ARUP ant to RFI response #T-03 Northwest corner levels C8	319, were not			This is correct	t.	_		
-0320	BSE - Ground Le	vel Structural Beams a	t Gridlines 34 and 34.8	Closed	09/25/2012	10/05/2012	10/02/2012	Potential	ly 🗀
From: Webcor Co	onstruction LP	David Fields	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: 100% 2307, 1/S1-3206	% Superstructure Package	e Drawings S1-			1/S1-3663. B	out beam eleva	tions on 1/S1-366		



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

379 of 1053 11/05/2013

Page: Date: Time:

Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
future work	ite the location of the Beale St please provide the dimension ural beams located at Gridline	s for the Ground							
T-0321		_	traints at A Line and 301 Mission	Closed	09/26/2012	10/06/2012	10/05/2012	Potentiall	у
From: Balfou	ur Beatty Infrastructure, Inc.	Dean Wallahan	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
REQUEST: Pursuant to meeting hel the following excavation a adjacent to -Limits of th -Sequence and struts). or waler at a strut or wale -Wall support as to maintage the work. Pl berm or other	discussions with ARUP at the d on September 12, 2012, BB g information regarding the ad and bracing requirements alor the western and eastern edge	III is requesting ditional and the A line is of 301 Mission: bracing (waler lation of one strut ore than one were discussions ferent stages of t and length of	SUGGESTION:		ANSWER: Due to file siz	Accept Sug e please find the	gestion: U	ned.	
	Additional Excava	ation and Bracing Cons Dean Wallahan	traints at A Line and 301 Mission To: Turner Construction Compan	Closed Gary Krutsch	10/10/2012 Answered By	10/20/2012 / :Adamson Asso	10/19/2012 ociates, Inc Geo	Potentiall rge Metzger	у 🗌
REQUEST: BBII would I at TCCO's v	like to confirm the following di veekly meeting on October 10	rection received), 2012 in regards	SUGGESTION:				gestion: proposed by the ses our concerns	S	
	of the berm and sequence of nse to RFI T-0321.	work referenced					eans and method 3 have caused ov		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 380 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
	<u> </u>						

The following work will take place between CDSM beams 251 and 276 along the A-Line and the southern edge of Zone 3's trestle.

Demolition: Upon completion of the demolition and removal of the basement walls and footings BBII is to place an earth berm to elevation +10.00, extending 25 feet from the face of the CDSM wall into the excavation and having a 3:1 slope at the southern hinge point of the berm.

Bracing: Walers 24 and 48 as well as Struts 49 and 50 will be installed within a 6 working day window to address ARUP's concern of overexposure from the Millennium's Building's foundation pressure on the CDSM wall. During the installation of these walers and struts the berm as described in the demolition section above will remain between CDSM beams 260 and 271 until completion of the bracing of walers 24 and 48 and struts 49-50. The sequence will be repeated for installation of walers 25 and 49 as well as struts 51 and 52 with the exception of the earth berm easterly limit will be CDSM beam 276 (centerline of buttress A line pile).

inches of lateral movement into the excavation at locations where excavation has not even progressed past the first level.

Additionally, as discussed in the Movement Review Panel Meeting the morning of October 17, 2012, Arup asked the Contractor to consider excavation under the Fremont Street bridge to progress from south to north. The Contractor agreed that this would be beneficial and possible.

T-0321.1R Additional Excavation and Bracing Constraints at A Line and 301 Mission REVISIO Closed

From: Balfour Beatty Infrastructure, Inc. Dean Wallahan To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Co-Author:

REQUEST:

BBII would like to confirm the following direction received at TCCO's weekly meeting on October 10, 2012 in regards to

the limits of the berm and sequence of work referenced in the response to RFI T-0321.

The following work will take place between CDSM beams 251 and 276 along the A-Line and the southern edge of Zone 3's trestle.

Demolition: Upon completion of the demolition and removal of the basement walls and footings BBII is to

11/05/2012

10/26/2012

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER:

Accept Suggestion:

Confirmed.

10/26/2012

This direction is consistent with the base contract documents and is solely the result of the action trigger levels experienced in Zone 3 as a result of BBII's excavation methods. Additionally, as discussed in the 10/17/12 MRP meeting, BBII agreed the excavation beneath the Fremont Street bridge was to progress south to north.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeel/Obayasiii Joint Ventare

Page: Date: 381 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

place an earth berm to elevation +10.00, extending 25 feet from the face of the CDSM wall into the excavation and having a 3:1 slope at the southern hinge point of the berm.

Bracing: Walers 24 and 48 as well as Struts 49 and 50 will be installed within a 6 working day window to address ARUP's concern of overexposure from the Millennium's Building's foundation pressure on the CDSM wall. During the

installation of these walers and struts the berm as described in the demolition section above will remain between

CDSM beams 260 and 271 until completion of the bracing of walers 24 and 48 and struts 49-50. The sequence will be

repeated for installation of walers 25 and 49 as well as struts 51 and 52 with the exception of the earth berm easterly

limit will be CDSM beam 276 (centerline of buttress A line pile).

T-0322 BSE - Dewatering Pipe Termination at System Removal

David Fields

Closed

10/13/2012 10/08/2012

Potentially

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Co-Author:

REQUEST:

From: Webcor Construction LP

Upon system removal, specification 31 23 19 (BSE Documents) requires the contractor to fill dewatering pipes with grout, cut, and cap to an elevation 36" below subgrade. Sheet A1-8711 (Below Grade Documents) shows in detail the final configuration of the dewatering pipes and requires that they are capped at 8" below Top of Mat Slab elevation.

Will Cutting and Capping of the dewatering pipes be required at 36" below subgrade?

Assuming the dewatering pipes will be cut and capped at 8" below Top of Mat Slab elevation:
Is it acceptable to have a void space in the abandoned

SUGGESTION:

ANSWER: Accept Suggestion:

10/03/2012

Contractor shall follow the details on sheet A1-8711 of the Below Grade Package.



10/3/12.

Webcor/Obayashi Joint Venture

Webeel/Obayasiii Soiiit Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 382 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Numbe	r Su	ıbject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
d	lewatering pipes betwee subgrade elevation to the nat slab?	n the grout termi			<u> </u>					
T-0322.	1 BS	SE - Dewatering	Pipe Termination at Syste	em Removal Follow-Up	Closed	10/08/2012	10/18/2012	10/10/2012	Potential	
Fı	rom: Webcor Construction	on LP	David Fields	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Aut	thor:									
F	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
L 1 to v G r Is d s	In follow up to RFI T-032: Jpon dewatering system 9 3.9 requires that aban to an elevation of 36" belivith the originally specific Grade Drawing A-8711 dequirement for the dewards it acceptable to have a dewatering pipes betwee subgrade elevation to the nat slab consistent with the state of the state o	removal BSE Sp doned piping be by subgrade ele- ed cut and cap el- bes not specify a tering pipes. void space in the nother grout termines.	filled with grout vation consistent evation. Below grout e abandoned nating 36" below ' below top of			dewatering pip 31 23 19. Foll steel sleeve, v When the dev dewatering pip the block out the top of the	pes are to be grown detail 6/A1-8 vaterproofing an vatering system pes are cut off, the and bentonite in sleeve. The a signal control in the asset of the asset o	table. The abandout filled per spe 18711 for dewaterind mat slab block is removed, the fully grouted to b stalled for the latel cap assemble and the mat sla	cification ing pipe c out. ottom of st 4" to ly is	
T-0323	Me	odification of E-	line Due to Shortened Sha	aft E3	Closed	10/03/2012	10/13/2012	10/03/2012	Potential	ly 🗌
Fi	rom: Balfour Beatty Infra	structure, Inc.	Ernie Cortez	To: Turner Construction Compa	an Gary Krutsch	Answered By	Arup	Step	hen McLand	rich
Co-Aut	thor:									
F	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
F	Reference attached Bech	o Letter BI-0282				The plan outling acceptable.	ned in Becho Le			
w E	An obstruction, believed to was encountered during to E3. Please see attached equesting an expedited to	he excavation of proposal from Bo	Buttress Shaft echo. We are			ассеріаліе.				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

383 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0323.1	BSE - Modific	ation of E-line Due to Sho	To: Turner Construction Compan Gary Krutsch Line Due to Shortened Shafts SUGGESTION: SUGGESTION: Line Due to Shortened Shaft E3 Robert Kjome SUGGESTION: SUGGESTION: Closed Robert Kjome SUGGESTION: SUGGESTION: Closed Robert Kjome SUGGESTION: SUGGESTION: Closed Robert Kjome SUGGESTION: SUGGESTION: SUGGESTION: Closed Robert Kjome SUGGESTION: Closed Robert Kjome SUGGESTION: Closed Robert Kjome SUGGESTION: Closed Robert Kjome To: Turner Construction Compan Gary Krutsch Closed Robert Kjome Robert Kjome To: Turner Construction Compan Gary Krutsch Closed Robert Kjome Robert Kjome To: Turner Construction Compan Gary Krutsch Closed Robert Kjome Robert Kjome To: Turner Construction Compan Gary Krutsch Closed Robert Kjome Robert Kjome To: Turner Construction Compan Gary Krutsch Closed Robert Kjome Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome Robert Kjome Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George I Robert Kjome Robert State Suggestion: Robert Kjome Robert State Suggestion: Robert Kjome Robert State Suggestion: Robert State Suggestion: R	Potential	ly 🗌				
From: Webcor Con	struction LP	David Fields	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
prior to Bedrock pl		3 all being installed if any further action	SUGGESTION:		ARUP Respo	nse:	- Ш	Na a a	
is required.							ip on snait E3. P	riace	
					augmentation				
T-0323.2	Modification (of E-Line Due to Shortene	d Shaft E3	Closed	10/25/2012	11/04/2012	10/26/2012	Potential	ly 🗌
From: Webcor Con	struction LP	Robert Kjome	To: Turner Construction Con	npan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:	40(0=(40 D W D W		SUGGESTION:		_				
	•	ress Meeting, please ds to be installed in			Rebar does n	ot need to be ins	stalled in shaft E	4.	
T-0323.3	Modification (of E-Line Due to Shortene	d Shafts	Closed	10/25/2012	11/04/2012	10/29/2012	Potential	ly 🗌
From: Webcor Con	struction LP	Robert Kjome	To: Turner Construction Con	npan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawing Reference Specific					Install shaft a	s previously dire	cted.		
Per RFI T-0323.1 soverlap on Shaft E		added with an 18"							
BBII considers dril casing left in D3.	ling E4 tangent to l	E3 in order to avoid							
Please advise.									



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 384 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

JOINT VENT	URE		30100 - Tra	ansbay Trans	it Center	Project			
ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor	Construction LP	Kirk Nielsen	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Webcor Const	ruction LP Robe	rt Kjome	
REQUEST: Reference Dra Please confirm 8:30 Buttress	awing: GT2201 n the verbal direction gi Meeting that shaft E-4 i cant as described in RF	s to be tangential	SUGGESTION:		tangential to		aft E-4 shall be insull penetration into		
0324		rder T-00010R2 - Clouded I		Closed	10/04/2012	10/14/2012	10/15/2012	Potential	ly 🗌
From: Webcor o-Author:	Construction LP	Joanne Filipas	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Turner Constru	uction Comr Stacy	/ Wilson	
Standards Ma attached. Field Order T-IFC drawings revisions are the revised drawingle, sheet Construction to this drawing issuance with clouded and the attached.	eld Order T-00010R2, T nual dated 15Nov10 and 00010R2 included the T and specifications. It is to be incorporated by the awings do not included tent with the TJPA CAD tent A1-8711 (attached) the TG03 BSE pack to the TG06 bid/construct the TG06 bid/construct the revision block does reion descriptions. The re	rG06 Below Grade s unclear what e TG03 contractor as revision blocks and D Standards. For vas Issued For kage. The revisions velopment and ion set are not not include all	SUGGESTION:		specifications Revision bloo Issued for Co Furthermore, require revisi of the TJPA (and DD revis TJPA engine and use of th can be offere	cks and clouds a construction and Is [For Reference on blocks and clockDD standards ion sets as an exering staff regards TJPA CADD s	drawings and 'JPA CADD stand re not used betwee ssued for Bid draw Documents] may ouds; refer to Figure manual regarding manu	een vings. not ure 6-1 g SD the retation sshop	

No Date Description

Ä0 12/10/2010 Issued For Construction -

Buttress/Shoring/Excavation

ÄA 4/18/2012 Issued for Bid - Below Grade

final Issued for Construction drawing should read as follows and all changes from the Rev 0 IFC issuance should be clouded in accordance with the TJPA CADD

Package

Standards:

ÄB 8/17/2012 Issued for Bid - Below Grade

Package - Addendum #2

Ä1 8/30/2012 Issued for Construction- Below Grade

Package



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

385 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumb	er Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Please confirm any previously issued IFC drawings that have since been revised will be re-issued consistent with the TJPA CADD standards. Also, please confirm all packages going forward will be in accordance with the TJPA CADD standards revision provisions.							
-0324	5.1 Field Order T-00010R2 - Clouded Revisions		Closed	10/17/2012	10/27/2012	10/23/2012	Potentiall	у 🗌
ı	From: Webcor Construction LP Kirk Nielsen	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constru	ction Comr Stac	y Wilson	
Co-Aı	uthor:							
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	In follow up to RFI response #T-0324 and the 10/17/12 BSE meeting it was clarified by AAI that what W/O was requesting in RFI #T-0324 was actually a "revision set for TG03". Please provide.			Per Ed Sum, 7	ГЈРА: "No"			
-0325	BSE - Excavation Sequence Relative to Inst	allation of Struts 10 & 11	Closed	10/05/2012	10/15/2012	10/11/2012	Potentiall	v 🗆
	From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction Compan				ociates, Inc Geor		y
	uthor:	191 Turner Constitution Compan	Cary Matoon	7 c c. c ,	-7 (damoon 7 (550	olates, me Geor	go Motzgoi	
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	nostion:		
	In an effort to expedite the installation of struts 10 & 11 at level D to help reduce eastward movement of the A-line wall, BBII proposes the following:	COCCESTION.		We cannot res		I as the sketch s	hows	
	Excavate to level D for struts STD-10 and STD-11, and notch along the wall so that waler WD-05 may be installed, leaving the berm present beyond the notch. Excavate on the south side to the end of waler WD-67. Excavation to install strut STD-12 will proceed once enough struts have been installed at level C to advance the level D excavation to strut STD-12 per the specifications.							
	A sketch has been attached for reference. Please confirm this is acceptable.							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 386 of 1053 11/05/2013

Time: Job:

on center. The rods are shown approximately two feet

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
	cor Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By:Turner Construction Comr Jack Adams						
Co-Author:											
REQUEST	_		SUGGESTION:		ANSWER:	Accept Sug					
activated o cabinet req Being that temporary	: Bridge Temporary Traffic sin 10/24/2012. The traffic signifies electrical power to act BBII will not be drawing porpower (Skids 3 and 4), pleatection for the use of an ava	gnal controller ctivate the signal. wer off site ase advise and			Specification 01-53-13 for Temporary Bridge does not require Traffic Signals at Trestle/Bridge intersection. Existing Traffic Control (Cristy Box) infrastructure available in the north sidewalks of both First and Fremont Street. These are the closest traffic control						
provide dire	ection for the use of all ava	mable power source.			infrastructure conduit/boxes signal wiring.	from the Tempo that contained There is also ex ofrastructure ava	orary Bridges with previous traffic consisting Traffic Consideration	ontrol otrol			
					remove and s protected the sidewalk). Re believe it is in	alvage traffic signification in infrastructure (but fer to RUP Drav	ontract (RUP Proj gnaling equipmer loxes, conduits u ving U-3301. The scope to determi	it and nder refore			
					did remove and protected under sidewa Therefore bel	nd salvage traffi I the infrastructu lk). Refer to RU	Contract (RUP c signaling equipre (boxes, condu P Drawing U-330; cor/BBII's scope power source.	ment its 2.			
					particularly wi	on install of und	t Specifications ewalk and street lerground electric	al			
T-0327	GRD - Ground	Rod Placement		Closed	10/16/2012	10/26/2012	10/31/2012	Potentia	lly		
From: BAS	S Electric	Jerry Brys	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger			
Co-Author:											
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
ground rod	no dimensions shown for pl s. Should we scale off the o produced reflecting dimen	drawings or will a			does not requare regularly s	iire exact dimen spaced around t	rods and the grous sioning. The grous he building perim roximately forty fi	und rods eter at			



Reference sketches: SCCI #1, SCCI #2

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Proposed construction joint between gridlines G & K

387 of 1053

Time:

11/05/2013 10:53 AM

30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee			
					inside the foundation wall, but they can be closer to the foundation wall if the layout is coordinated with the geothermal system piping, micropiles and foundation wall supports.							
					Per Section 2 Coordination		3					
T-0328	BSE - Re-Brad	cing Elevations		Closed	10/17/2012	10/17/2012	11/01/2012	Potential	y			
From: Webcor Cons	struction LP	David Fields	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger				
Co-Author:												
between level B stru Case West, level B in the lower level of Internal bracing dra support members o order to install the le the existing level C need to be installed Similarly, the top lev 15 to be 3' below lev need to be 5' below clear of the overhead Please confirm that in stage 13 and 3' m	Drawing GT-1112 stage 13 shows a maximum of 16' or 17' between level B struts and the lower level of rebracing. For Case West, level B supports are at elevation -3', resulting in the lower level of rebracing supports at elevation -20'. Internal bracing drawing sheet SH-4000 shows W21 strut support members on the underside of level C bracing. In order to install the lower level rebracing and accommodate the existing level C bracing, the lower level bracing will need to be installed at elevation -22'. Similarly, the top level of rebracing is called out in stage 15 to be 3' below level A bracing. Top level rebracing will need to be 5' below level A bracing in order for struts to be clear of the overhead strut supports. Please confirm that the 17' and 16' maximum dimensions in stage 13 and 3' maximum dimension in stage 15 will not be required if the rebracing design calculations show that			ANSWER: Accept Suggestion: Constructructability issues shall be review. Webcor / Obayashi. This is acceptable pereview of submittal.								
T-0329 From: Webcor Cons	•	ed Construction Joint Layout Robert Kjome	To: Turner Construction Compa	Closed an Gary Krutsch	10/24/2012 Answered By	11/03/2012 Adamson Asso	10/31/2012 ociates, Inc. Georg	Potential l ge Metzger	у			
Co-Author: REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:					



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 388 of 1053 11/05/2013

Time:
Job:

Cost

10:53 AM 30100

30100 - Transbay Transit Center Project

Date

Date

Date

ımber	Subject	<u>Status</u>	Created	Required	Answered	Impact	Proce	
Per note CJ-2 of joints will be pe drawings or app	cification: 03 30 20 on sheet S-0007 No horizontal construction rmitted unless specifically shown in the proved in writing. Please confirm that the		and Lower Confollowing con	oncourse slab, h nments:	is acceptable for owever, please no t(s) is not a horizo	ote the		
and K is accept	struction joint shown between gridlines G able as it follows the micropile construction t will help the schedule with re-bracing in Corner.		2. Mat Pour Layout: a) Per spec 03 30 20 3.2.B.1, jo "shall be located within the centra b) Per spec 03 30 20 3.2.A.4 "For lower concourse floor slab, and groun construction joints shall align with the mat slab joint below."					
			a) Per sp construction b) See co		/out: .A.4, max spacing oncourse slab is 6			
				posed constructi submittal per sp	on joints shall be ecifications.			

Co-Author:

REQUEST:

T-0330

Reference Drawing : A1-8711 S1-3003 Reference Specification: 03 30 00

From: Webcor Construction LP

Specification 03 30 00.3 .I.E, Vapor Retarder Placement:: See Division 7, Thermal and Moisture Protection, describes installation of vapor retarder. Specification 03 30 00.3 .4.A.13 states "Place vapor retarder directly below slabs on grade as specified in contract documents."

BSE - Mud Slab Vapor Retarder

Robert Kjome

Vapor retarder is not referenced on Detail 5, Mud Slab Detail, on sheet S1-3003, or on any of the slab penetration details on sheets A1-8711 and S1-3003.

Closed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

10/30/2012 11/09/2012

11/09/2012

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

Vapor Retarder is not required for the Mud Slab.



Page:

389 of 1053 11/05/2013

Date:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: 10:53 AM Job: 30100

JOINT VENTURE			30100 - Trans	bay Trans	sit Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please verify whethe	r or not vapor retarde	er is required.							
T-0331	BGP - Geotherma	I Maximum Horizontal	Loop or Ground Loop Zone Length	Closed	10/31/2012	11/10/2012	11/05/2012	Potential	ly 🗌
From: Webcor Constr	ruction LP	David Fields	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constru	ction Comr Gary	Krutsch	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference: 23 57 34 Please confirm that there is no restriction on GHEX Horizonal Loop or Ground Loop Zone length.					headers shoul headers are s for self-baland ultimately be ballowing for so accommodate All loops on a length. The nu	Id be roughly the et up in reverse eing of the loops. Dalanced at the end of the loops in least the end of the loops. The building entrances in least the loops in le	nould be the sam ttached to a sing	e allow ing	
T-0332	BSE - Micropile W	/203 Relocation		Closed	11/01/2012	11/11/2012	11/02/2012	Potential	lly 🗀
From: Webcor Constr	ruction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST: Micropile 203 as laid BBII proposes movin '75". See attached s	g pile W203 East 4'-9		SUGGESTION:		ANSWER: Thornton Tom Micropile 203		gestion: object to moving		

From: Webcor Construction LP

T-0333

Please confirm this is acceptable.

David Fields

BSE - Utilization of the Mat Slab for Re-Bracing Reactions

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

11/07/2012

Co-Author:

REQUEST: SUGGESTION:

ANSWER:

11/01/2012

Closed

11/11/2012

Potentially



as necessary per the design to provide required capacities

of elements.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 390 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Is utilizing the mat slab for re-bracin rackers) acceptable provided it mee forth within 31 55 00 1.5 Q in regard penetrations, imbeds, and restoratio	ts the provisions set s to connections,			re-bracing pro 1.5.Q are met which shall all not exceed ca review per sul	ovided provision as well as species apply for the apacity of mat). comittal process,	gestion:	article 5.R, s shall for tions	
				Contractor sh and schedule Contractor sh finished buildi	reduction for th all outline any p ng related to thi	t structure. PA if there will be is Proposed Alterrerminent impact os proposal. See garding Proposed	nate. on the	
					ernate for review	er information on the prior to full accep		
0333.1 BSE - BSE -	Utilization of the Mat Slab	or Re-Bracing Reactions Follow-Up	Closed	11/07/2012	11/17/2012	11/13/2012	Potential	ilv 🗀
From: Webcor Construction LP	David Fields	To: Turner Construction Compan	Garv Krutsch	Answered By	:Webcor Const	ruction LP Robe		, _—
co-Author:		·	•	-			,	
REQUEST: Response to RFI T-0333 stipulates to	that the contractor:	SUGGESTION:		ANSWER: VOID	Accept Sug	gestion:		
"submit further information on this	proposed alternative"							
This statement implies that the utiliz for rebracing reactions is a deviatior by contract. Please identify the prim rebracing design is to employ in ord seismic, or other additional loading to provide restraint against buckling, to	n from what is required ary method the er resist gravity, so be resisted and/or							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 391 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0333.2	BSE - Utilizat	ion of the Mat Slab for Re-	Bracing Reactions Follow-Up	Closed	11/09/2012	Potentia	ly 🗌		
From: Webcor C	onstruction LP	David Fields	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
reactions was a set forth within 3 penetrations, im The response si provided the conschedule reduct requirements fo to locate a special Alternatives in a list utilizing the magnitude of the lift acceptable, plus provided pure Additionally, ple	cceptable provided it 31 55 00 1.5 Q in region beds, and restoration tated that structurally intractor outline if thereion pursuant to the signification provision for the TG03 or TG06 contat slab for rebracing TG03 or TG06 contrates identify the spenatives" within the TG03 and schedule redicted as and schedule redicted as a secondary the TG03 ments for secondary	rit was acceptable re will be a cost and pecification ves". W/O is unable "Proposed ontract documents. reactions acceptable act documents? reification section for 303 or TG06 duction proposals can le requirements. 3 and/or TG06			response, " apply for the r capacity of me submittal proc reactions onto capacity of pe URS Respons by re-bracing loading for bre speficically ide Any reduction	specification artinat (i.e. reaction at). Submit re-bress, including copermanent structurmanent structure: If the load capelements are leading elements in the of this loading in the load	apacities to be pr ss than the desig	nall also ed per show seed rovided gn	
T-0334	BGP - Catch	Basin Elevation at Gridline	es 14 and B.3.	Closed	11/01/2012	11/11/2012	11/02/2012	Potential	ly
From: Webcor C	construction LP	David Fields	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: A1-2	2814						Basin Elevation Pit Elevation is		
Please provide along gridlines	the elevation for the o	catch basin located			39'-8".	aujaceni Sump	Fit Lievation is	100-	
T-0335	BGP - Contra	ct Bury Bar for Support		Closed	11/05/2012	11/15/2012	11/10/2012	Potential	ly
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									



the same as it is for the vertical wall reinforcement.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

392 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject				Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Ple lay co oc ref	EQUEST: eference Specification: 03 30 00 ease confirm it is acceptable to displayer contract reinforcing bar and a bott intract reinforcing bar one bar diameter to support the mat reinforcing. A skeference and to graphically represent thinguration.	om mat 2nd layer er every 6' - 0" +/- tch is attached for	SUGGESTION:		ANSWER: It is not accep contract layou NOTE: The R the orientation Bottom Rebar Notes" on S1-orientation of	present t p Rebar			
0226	BCD Well Down	els Standard Hooks		Closed	11/05/2012	44/45/2042	44/40/2042	Detential	
-0336			T. T. O			11/15/2012	11/10/2012	Potential	іу 📗
	om: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Auth	or:								
Re Re Co ve the is 7")	eference Specification: 03 20 00 eference Drawings: SI-3201 entract drawing S1-3201, Section 1 derical wall dowels with a terminator, type mat foundation rather than a standarequesting the option to utilize a #11 orientated inward or a terminator as cations. Please verify that either optione.	p. embedded into rd hook. Shimmick standard hook (1' - shown at these	SUGGESTION:		vertical bars is would need to would result ir	not acceptable be hooked town congestion. P	gestion: and ard hook for was as the inside was ards the outer ballease provide ver contract drawing	ll bar r and tical	
-0337	BGP - Bottom N	lat Reinforcing Clear Cov	ver to Edge	Closed	11/06/2012	11/16/2012	11/12/2012	Potential	ly 🗌
Fro	om: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Auth	or:								
Re Re Co ma ac	eference Specification: 03 30 00 eference Drawings: S1-3201 epicts the cat reinforcing as 6" along the edge. Placeptable to extend the bottom mat rele edge such that the clear cover along	ease verify it is inforcing closer to	SUGGESTION:		mat edge is no	ot acceptable as	gestion: cation to clear cover s it would result in provide contract	n a	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

393 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number		Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0338		BGP - Mat Reint	forcing Clear Cover, Exte	rior Face Wall Vertical Clear Cover.	Closed	11/06/2012	11/16/2012	11/10/2012	Potentiall	
Froi	m: Webcor Constru	ction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	- Ш
Co-Autho	or:									
RE	QUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	ference Specification ference Drawing: S					The 3" clear cover listed in detail 5/S1-3001 is "concrete cast against and permanently expose earth", which does not apply to the mat. Bottor			ed to	
reir S1- out tha as i	ase confirm the cle nforcing is 3" as cal -3001, typical detail side face vertical re t clear cover to this it is for the inside fa ntract drawing S1-3	led out on contract 5. Additionally pleinforcing bars cather bar is 6" from the ace vertical bar as	ct drawing sheet ease verify if the n be lifted such e concrete below			"Mat Bottom F The outside fa	Rebar Notes" (no	onfirmed to be 3" ote 7) on S1-2022 orcement bars maining clear cover.	ay not	
Г-0339		BGP - Wall Rein	forcing Clear Cover		Closed	11/06/2012	11/16/2012	11/15/2012	Potentiall	y 🗌
Froi	m: Webcor Constru	ction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Autho	or:									
RE	QUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	ference Specification ference Drawing: S					The 2" clear constant S1-3201 is cons		cal wall reinforcer	nent on	
sho bar 2" o	ntract drawing shee owing the 2" clear cos. Please confirm to clear cover and that ar cover to the main	over to the vertical hat the cross ties the design intention	al wall reinforcing will infringe on the t is to maintain the					ce within the 2" cl and 4 on S1-320		
Γ-0340		BGP - IDEA Mad	chine		Closed	11/06/2012	11/16/2012	11/15/2012	Potentiall	у
Froi	m: Webcor Constru	ction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Autho	or:									
RE	QUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	ference Specification ference Drawings: N					machine-weld	ed holding wires	ntractor-proposed to column ties a ne following condi	nd	
IDE	mmick would like to EA Machine. The ID	EA Machine pre-	assembles grade			are met:		-		
pro	am, columns or other cess of resistance es to the ASTM A70	welding three (3)	1/4" ASTM 82			1. Column ti A706.	es and beam sti	irrups must be AS	iIM	
			e configuration with			2. Holding w	rire bars shall co	onform to ASTM A	\82 or	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 394 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

a more effective and timely installation. Attached is CRSI's engineering data report #53 which provides an in-depth explanation of the process as well as their acceptance of the same. Also attached is a reference list of recent projects where this process has been approved and utilized as well as a testing report from Christensen Materials Engineering. Please confirm if this is acceptable.

A496.

- 3. Holding wires are only allowed to be welded to column ties and beam stirrups #5 or smaller.
- 4. Holding wires are not to eliminate any longitudinal bars or interfere with flow and placement of concrete.
- 5. Verification tests: Contractor shall submit results of verification tests conducted during the month of tie/stirrup production from a Certified Testing Laboratory for review. Tests shall be performed on 3 samples of bar sizes to match project conditions. Samples shall have a gage length of 24 bar diameters with the holding wire weld located in the middle quarter of the length. Test the samples in tension and report elongation of the sample at fracture, the location of the fracture and the type of fracture. Test and production bars to be welded shall be ASTM A706.
- 6. Production tests: If verification tests are acceptable, production tests will be required only if there is deviation from the accepted process or if the inspector identifies potential defects.
- 7. Fabrication shall conform to the following:
- a.) Holding wire welds shall be located a minimum of 2 tie/stirrup diameters away from bends and/or cold-worked regions of stirrups.
- b.) Maintain a minimum clear cover from the face of the concrete to the ties/stirrups as noted on the drawings and maintain clear cover to holding wire as required by ACI 318.
- c.) If field installation requires adjustment of tie/stirrup locations due to mis-coordination or misplacement, adjustments/corrections shall be responsibility of Contractor.
- d.) Holding wires shall be located a minimum of 2 inches clear from main longitudinal bars.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 395 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					ties/stirrups. 8. Submit th		ay NOT be welded	d to	
					Concrete reii	morcement subm	iittai.		
T-0341	BGP - One Pi	ece Ties		Closed	11/06/2012	11/16/2012	11/10/2012	Potential	lly
From: V	Vebcor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUE	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
or "serp an auto elemen result is the des	ick would like to request the upper ties at this project. The matic bender that bends a contitie from one continuous pieces the same perimeter and crossign in the contract documents occurred is acceptable.	nese ties are made by Ilumn or boundary se of rebar. The end ss tie configuration as			/ "serpentine document re	" ties is acceptal	proach to use "one ble as long as con n is provided. Sub ess	ntract	
T-0342	BGP - Mat Sla	ab Reinforcing and Lap Ratio		Closed	11/06/2012	11/16/2012	11/20/2012	Potential	lly 🗀
From: W	Vebcor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	- Ш
Co-Author:									
REQUE	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
meeting	w up to the 10/31/12 Value En g, please confirm it is accepta 30 #11 bars to grade 75 #10 b cing.	ble to change the				ally acceptable to grade 75 #10 bar	o change the graders for the mat slab		
	Please provide the increased lap ratio required for the change in grade and bar size.				1*, top bars* Tension lap	, f'c 5 ksi = 115 i	#10, grade 75, ca		
					(* = See 1/S	1-3001 for notes	/definitions)		
						on at 11/16/12 V issued in the fut	E meeting, CR for	r VE	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

396 of 1053 11/05/2013

Time:

10:53 AM

30100

JOINT VENTURE	30100 - Transb	ay Trans	sit Center	Project			
Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
F-0343 BSE - Micropile W072 Relocation From: Webcor Construction LP Robert Kjo		Closed	11/09/2012	11/19/2012	11/12/2012	Potential	ly
Co-Author:	me To: Turner Construction Compan C	ary Krutsch	Answered by	Adamson Asso	ciates, Inc Geor	ge Metzger	
REQUEST: Micropile W072 as laid out is too close to overhead stru support BA-29. BBII Proposes moving pile W072 East 1 to provide adequate clearance See attached sketch.			ANSWER: Thornton Tom Micropile 072		gestion: object to moving		
Please confirm this is acceptable.							
Γ-0344 Micropile W073 and W074 Relo	cation	Closed	11/12/2012	11/22/2012	11/13/2012	Potential	ly 🗌
From: Webcor Construction LP Robert Kjo	me To: Turner Construction Compan C	Sary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:							
REQUEST: Micropiles W073 and W074 as laid out are too close to overhead strut support BA-28. BBII proposes moving pil W073 West 2' and North 0.5' and pile W074 East 2' and South 0.5' to provide adequate clearance. See attached sketch.	1			Accept Sugnasetti does not and Micropile 0	object to moving		
Please confirm this is acceptable.							
Γ-0345 BSE - CDSM Wall Parallel Stiffr	ness for Bridge Design	Closed	11/13/2012	11/23/2012	11/15/2012	Potential	ly 🔲
From: Balfour Beatty Infrastructure, Inc. Ural Yal	To: Turner Construction Compan G	Sary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:							
REQUEST: Specification Reference: 01 53 13.1.3D BBII has recently received information in a non bridge	SUGGESTION:		Contractor to piles are subject	analyze the solo	which requires the lier piles if the solution lier than those sh	dier nown on	
design related correspondence that could impact the			the drawings.	Refer to the Co	ntract Documents	for the	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 397 of 1053 11/05/2013

Time:

Data

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cosi	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

already designed, permitted, and constructed First and Fremont St. Bridges. In an ARUP memo dated October 5th, 2012 bullet #2 states:

"The Contractor has verbally attested that they designed the diagonal corner braces using an interpretation of Note 11 on sheet GT-1111 which yielded a key assumption which is that the CDSM wall is infinitely strong and infinitely stiff. This assumption is an inaccurate and unreasonable interpretation of this note and in no way does the note infer this".

Although this comment is in reference to the internal bracing design, it also relates to the temporary bridge design. As noted on page 156 of the First and Fremont St Bridge structural calculations (attached), this same interpretation of note 11 on GT-1111 was used for the abutment shear key design. The Bridges have been designed, reviewed and approved by DPW under with the assumption that no additional deformation occurs at the base of the abutments. If in fact the CDSM wall is truly NOT infinitely strong or infinitely stiff parallel to the wall, BBII requests a value from the CDSM engineer of record that can used in our re-evaluation of the First and Fremont Bridges to ensure the existing design remains in compliance with the design criteria. Additionally this value would be used in the re-design of the Beale St. Bridge.

design strength of the CDSM material.

T-0346 BGP - Mat Slab Maximum Aggregate Size

From: Webcor Construction LP

Robert Kjome

To: Turner Construction Compan Gary Krutsch

Closed

Answered By: Adamson Associates, Inc George Metzger

11/21/2012

Potentially

Co-Author:

REQUEST:

Specification Reference 30 30 20

Shimmick is requesting approval of 1 inch nominal maximum aggregate size in lieu of the 3/4 inch nominal maximum aggregate size for the Mat Slab concrete. Shimmick's backup data indicates that concrete made with larger aggregate size (1 inch instead of 3/4 inch) produces lower drying shrinkage values mainly due to a

SUGGESTION:

ANSWER: Accept Suggestion:

11/25/2012

11/15/2012

Contractor-proposed use of 1" nominal max aggregate size for the mat slab concrete is acceptable. Submit mix designs through submittal process.

Jeff Thiel Per discussion at 11/16/12 VE meeting, a CR for VE items will be issued in the future.



T-0348

BSE - Micropile W235 Relocation

Webcor/Obayashi Joint Venture

Page: Date:

Date: Time:

Job:

398 of 1053 11/05/2013 10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	the water consumption of paste content.	the mix and a							
T-0347	Trim Steel Red	quirements for the Mud Slab		Closed	11/19/2012	11/29/2012	11/29/2012	Potential	ly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
REQUEST: Reference Specification: 03 20 01 Reference Drawing: S1-3003 Please confirm that trim steel will not be required. If trim steel is required, provide the details for trim in the 4" mudslab where the #4 bars @ 18" are interrupted. Please reference the attached sketch.			SUGGESTION:		referenced do with a clear qu The mud slab rebar shop dra 032001A06.0)	cuments. Revisuestion. is scope for Paawing (TG0300-has already be	gestion: is inconsistent we and resubmit ckage TG03 in v 340.0, Item TZ1 en approved. TI not apply to the	the RFI which the 020- ne	
T-0347.1	BSE - Mud Sla	ıb Trim Rebar		Closed	12/12/2012	12/22/2012	12/18/2012	Potential	ly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Reference S Upon further to the approx (TG0300-34) for penetration of the state of	ubmittal: TG0300-340 ketch: 12B035_SK-1 review of contract require val of the mud slab rebar 0) it does not appear that ons in the mud slab. rm that trim steel at penebe required pending subn Only" mud slab shop drageter	shop drawings trim steel is required trations in the mud hission of a follow up	SUGGESTION:		ANSWER: Trim steel at prequired.	Accept Sug	gestion: he mud slab will	not be	

Closed

11/20/2012

11/30/2012

11/20/2012

Potentially



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

399 of 1053 11/05/2013 10:53 AM

30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webco	r Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	y: Adamson Ass∉	ociates, Inc Geor	ge Metzger	
from the Tres to provide ade	35 as laid out cannot be tle. BBII proposes movir equate clearance. See a m this is acceptable.	ng pile W235 North 2'	SUGGESTION:		ANSWER: Accept Suggestion: Thornton Tomasetti does not object to moving Micropile 235 as proposed.				
	BGP - Constru r Construction LP	uction Joint Layout Robert Kjome	To: Turner Construction Compan	Closed Gary Krutsch	11/20/2012 Answered B	11/30/2012 y :Turner Constru	11/21/2012 uction Comr Jeff T	Potential Thiel	ly
REQUEST: Reference Specification: 03 30 20.3.2.A.3 Per specification 033020.3.2.A.3 the maximum construction joint spacing in the mat slab is 120 feet (E/W direction), 3.2.A.4 maximum construction joint spacing in the foundation wall, lower concourse slab, ramp slab, interior walls, and the ground floor concrete slab is 60 feet. Foundation wall, lower concourse floor slab, and ground floor construction joints shall align with the location of the mat slab joint below and 3.2.B.1 construction joints in floor slab shall be located within the central third of the span. Due to the moment frames along grid lines V, W, and X being angled Shimmick see's the attached drawings as the only viable contruction joint layout to comply with all set forth specifications. Please advise if the mat slab, foundation wall, and lower concourse construction joint layout is acceptable?			SUGGESTION:		the Contract I of items requi submittal prod	Documents. RFI ired to be submi	gestion: etation or clarifica s requesting acce tted through the opriate for the RFI	eptance	
-0349.1 From: Webcor	BGP - Constru	uction Joint Layout Robert Kjome	To: Turner Construction Compan	Closed Gary Krutsch	11/26/2012 Answered By	12/06/2012 y :Adamson Ass	12/07/2012 ociates, Inc Geor	Potential ge Metzger	ly
REQUEST: Per specification 03 30 20.3.2.A.3 the maximum construction joint spacing in the mat slab is 120 feet (E/W direction), 3.2.A.4 maximum construction joint spacing in the foundation wall, lower concourse slab, ramp slab, interior walls, and the ground floor concrete slab is 60 feet.			SUGGESTION:		the Lower Co it is located in	ncourse MF bean the middle third	gestion:	provided	



require the butyl tape to extend 4 inches minimum past the top of the mud slab. Please review and advise as this

does not match the as bid details.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 400 of 1053 11/05/2013

Time:
Job:

: 10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
floor o	lation wall, lower concourse floo onstruction joints shall align with	n the location of the			wall construc	•					
	ab joint below and 3.2.B.1 consi hall be located within the centra					Additional comments: A.) The mat construction joint at GL 1-J shall align					
	the beam configurations at the				A.) The mat on with a wall co	ign					
	train box the following deviation nentioned requirements will be r						ier layout in form	al joint			
Frame	construction joint will need to page Beam along Grid Line X near Ced sketch.				layout submit	tal.					
with th	ab construction joints at two loca ne mat slab or wall construction wall between Grid Line Wand C	joints along the									
ассер	e confirm these proposed deviat table pending evaluation of a ful on submittal.										
0350	BGP - Mat Slai	b Penetration Waterproofing		Closed	11/21/2012	12/01/2012	11/28/2012	Potential	ly 🗆		
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Compan G	Sary Krutsch	Answered B	:Adamson Asso	ociates, Inc Georg	ge Metzger	, _—		
o-Author:											
REQU	IEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
	riction Reference: 07 12 10 ng Reference: A1-8711				(Laurenco) sp	ecifications and	erproofing manufa written recomme as you outline in t	ndation			
Please reference Drawing Sheet A1-8711, Laurenco E-Mail and Stamped Shop Drawing Details. Penetration details on drawing sheet Al-8711 call for 4 inch wide butyl tape to wrap around the mat slab penetrations prior to pouring of the mud slab. The specifications call for all shop drawings to bear the manufacturer's stamp of approval. Laurenco (manufacturer) has indicated that they					question, the	TJPA represent butyl tape 4 inc	ative does not obj hes minimum pas	ject to			



From: Webcor Construction LP

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By:Turner Construction Comr Stacy Wilson

401 of 1053 11/05/2013

Time: 10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0350.1	BGP - Mat Slab	Penetration Waterproofing		Closed	12/06/2012	12/16/2012	12/13/2012	Potential	ly 🗌
From: Webcor Cons	truction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specifica Reference Docume Futher to the engine extension of the but are required around bridge piles, and pir at each of the afore the extended butyl t	nts: A1-8711 eers response to RF yl tape conflicts with the dewatering well n piles. Please provi- mentioned locations	n the casings that is, trestle piles, de revised details			extend 4" abor and 6 on A1/8 does not 'tie o For these deta with the butyl steel sleeve is therefore the balab. The deta The Contractor revised to sho waterproofing assembly. Su manufacturer's	we the mud slab 711 the butyl ta ff' on to the water alis the waterpro tape at the mud in the same pla butyl tape canno alls will not be re or's shop drawin w the butyl tape membrane and dbmit the revised	g submittal is to 's relationship to other elements d shop drawing v I detail for the bu	etails 4 ation prane. ngage n, the tape, the mud be of the of the with	
T-0350.2	BGP - Mat Slab	Penetration Waterproofing		Closed	12/20/2012	12/30/2012	12/21/2012	Potential	ly
From: Webcor Cons	truction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawing: SCCI would like to of Butyl tape and Mud held 12/19/2012, the Butyl tape at the Mu a waterproofing purp between the concre the mud slab. Becal Butyl tape did not no Slab and could stop	confirm conversation Slab Penetrations. e design Engineer mud Slab Penetrations pose, but rather a bote and the steel penuse of this, the Engieed to be extended	From the meeting nentioned that the sides not serve as ond breaker etrating through neer stated the above the Mud			8711, the Buty does not serve bond breaker penetrating the	/I tape at the Mu e a waterproofin between the cor rough the mud s s engage the w	lown WP detail 2 Id Slab Penetrat g purpose, but r ncrete and elem- slab. On 2/A1-87 aterproofing and	ions ather a ent 11 the	
Please confirm.									
T-0351	BGP - Grace Ec	lipse Floor 200		Closed	11/26/2012	12/06/2012	11/26/2012	Potential	ly 🗌

To: Turner Construction Compan Gary Krutsch



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

ANSWER:

Accept Suggestion:

Page: Date:

402 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:									
REQUEST: Reference Specification: 03 30 20 Eclipse Floor and Eclipse Plus admixtures were replaced by a new generation of drying shrinkage reducing admixtures Eclipse Floor 200 and Eclipse 4500. This new family of admixtures is equivalent to BASF Tetraguard and based on our experience we should be able to achieve project specifications on drying shrinkage. CEMEX has been using the two new products for more than two years with excellent results. Attached, please find the communication from Grace Construction Products about the two new shrinkage reducing admixture products. Please verify these eclipse products are acceptable for use on this project.			SUGGESTION:		Eclipse produresults.	cts pending acc	gestion: ntractor-proposed eptable strength to or products not list	est	
T-0352 From: Webcor Constr	BGP - Commissioning	of Ground Loop Havid Fields	Heat Exchanger To: Turner Construction C	Closed ompan Gary Krutsch	11/26/2012 Answered B	11/26/2012 / :Adamson Asso	11/30/2012 ociates, Inc. Georg	Potential ge Metzger	
Co-Author: REQUEST: Reference: 23 57 34 Please confirm that c the Ground Loop Hea	ommissioning will not be	required for	SUGGESTION:		exchanger an shall be comr overseeing th sub-contractor reviews, insta and treatmen functional tes validations. E of work are in 91 00 (Gener	d the Geothermanissioned with E e completed wors, including but illation verification to procedures, couting and on-goin novity specificat cluded under Diral Commissionin systems Comm	5, the ground loop al system as a wh novity witnessing rk by the geotherr not limited to sub ns including flush ntrols pre-functior	ole and nal mittal , clean nals, scope ion 01 and 23	
T-0352.1 From: Webcor Constr	_	of Ground Loop Havid Fields	Heat Exchanger Follow-Up To: Turner Construction C	Closed ompan Gary Krutsch	11/30/2012 Answered By	12/10/2012 / :Adamson Asso	12/07/2012 ociates, Inc Georg	Potential ge Metzger	iy 🗌

SUGGESTION:



provide the dimension to the eastern edge as indicated in

blue on Drawing S1-2022.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

403 of 1053 11/05/2013

Time:

Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost	Procood
Number	Subject			<u>Status</u>	Createu	Required	Allsweled		Proceed
unable to locate s Commisioning Re	sued for construction pecification section "0 quirements" or "23 08 oning". Please advise	1 91 00 General 00 HVAC			To clarify, specification section 01 91 00 and 23 08 have not been issued and do not apply to this work. The answer to RFI T-0352 is superseded by this RF reply. Specification section 23 57 34 shall be used the Contractor to fully furnish, install and provide prefunctional testing and documentation to prove the design requirements prior to back-fill and post back fill. A TJPA representative will review the results of the Contractor's commissioning efforts. All of the necessary pre-functional requirements for the below grade package are provided in specification section 57 34.				
T-0353	BSE - Micropile	W107 Relocation		Closed	12/04/2012	12/14/2012	12/11/2012	Potential	ly
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Micropile W107 as	s laid out is in conflict	with Pin-pile #15.				asetti does not 7 as proposed.	object to moving		
	ving Micropile W107 l adequate clearance.				wildropile vv re	т аз ргорозса.			
Please confirm thi	s is acceptable.								
T-0354	BSE - Sump Pit	Location and Dimension		Closed	12/06/2012	12/16/2012	12/11/2012	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Refe Reference Drawin	rence: 31-00-00 gs:S1-2022, S1-3006				The requested	d dimension is 4	'-9".		
dimensions to pro	and S1-3006 do not h perly excavate the Su e 1 between GL 4 and	mp Pit on the							



Specification 23 57 34, page 4, paragraph 3.1, D., S3H is

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

compacted as required by section 31 23 34.

404 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Procee
Γ-0355		Instrumentation Pad Demo	alition	Closed	12/11/2012	12/11/2012	12/18/2012	Potentially
From: Webcor Co		Robert Kjome	To: Turner Construction Compar			y:Adamson Asso		·
Co-Author:		,	i amer concuration compar	. Cary randon		, , , , , , , , , , , , , , , , , , , ,		.gee. <u>_</u> ge.
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	rection.	
Please reference The 1ft thick cond beyond the face of be demolishing w	crete instrumentation of the A line CDSM vith the tops of the buth the first level of zon-	vall into zone 4 will uttress shafts during	SUGGESTION.		The instrume	ntation slab shal nain in place as s	not be demolisl	
Please confirm th	at this is acceptable							
Γ-0355.1	BSE - Zone 4	Instrumentation Pad Demo	lition	Closed	01/30/2013	02/09/2013	02/07/2013	Potentially
From: Webcor Co	nstruction LP	Lynn Kowallis	To: Turner Construction Compar	n Gary Krutsch	Answered B	y: Adamson Asso	ciates, Inc Geo	rge Metzger
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
0355 was answer protection slab wl section 10 of con 5102 as directed markers from beir Concerns were rasuggesting that the removed. Please confirm the	in previous MRP med, BBII noted that thich is to remain in ptract drawing GT-by RFI T-0355 respond placed on the topaised from the owner is slab may have to that RFI T-0355 was antation protection slab	the instrumentation place as seen on conse prevents survey of soldier piles. It's design team be			which is insid removed as p is specifically	f the instrumenta e the face of the part of the BSE c covered in spec s C as well as in o	excavation shal ontract documer ification section	l be hts. This 31 00
Г-0356	BGP - GEOTH	ERMAL - Loop Soil Compa	action	Closed	12/11/2012	12/21/2012	12/17/2012	Potentially
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Construction Compar	n Gary Krutsch	Answered B	y:Adamson Asso	ciates, Inc Geo	rge Metzger
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
·	ications: 31 23 34 3. 23 57 34 3 23 57 34 1	3.1 D .2 A.3			the geotherm where the HD any damage	tion 23 57 34 loo al contractor to b PE ground loops to the pipes durir	eackfill the trench are located to a ng the process.	nes avoid Once
•	31 23 34, page 6, page 6 and to 95% maximum	aragraph 3.3, F., soil dry density.				have been backf ping is protected		23 57



Reference Specification: A1-8712

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

The Utility Penetration Sleeves through the

405 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

JOINT VEN	NTURE		30100 - Tra	insbay Trans	sit Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
to backfill po	er IGSHPA with loose soil	L							
	firm S3H is to backfill the andard section 23 57 34, p								
Γ-0356.1	BGP - GEOTH	ERMAL - Loop Soil Compa	action Conflict in Specifications	Closed	01/22/2013	02/01/2013	01/29/2013	Potential	у 🗌
From: Webo	or Construction LP	Jackson Tukuafu	To: Turner Construction Con	mpan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimr	mick Construction Compa	ny, Inc Chris Williams							
REQUEST: Please refer to attached excerpts from spec section 23 57 34, 31 23 34 and RFI response to T-0356.			SUGGESTION:		ANSWER: Wetting of ba	Accept Sug			
backfill of th 57 34 and 3 conflict with requires geo soil and the	sponse to T-0356 (SCI-01) ne trenches to meet speciful 23 34. However, the two one another. Section 23 othermal loop trenches to n apply water to settle the otes that flooding or jetting	rications section 23 to sections are in 57 34-3.1, D, be filled with loose loose soil. Section							
meet "spe the geother the HDPE g to the pipes been backfi protected th	the work sequence directed sec section 23 57 34 loose mal contractor to backfill to ground loops are located to during the process. Once lled per section 23 57 34 see soil can be compacted 23 34" are not feasible.	soil shall be used by he trenches where o avoid any damage the trenches have and the piping is							
Please advi	se.								
Г-0357		rmal Stainless Steel vs. Ga	·	Closed	12/11/2012	12/21/2012	12/19/2012	Potential	у
	or Construction LP	Robert Kjome	To: Turner Construction Con	mpan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

406 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

		<i>3</i>		,			
umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Reference Drawing: 23 05 30 2.3B				/all are to be sta	inless steel as de	etailed	
Detail 2 on Architectural Plan Sheet A1-8712 shows a 1 /4" Stainless Steel pipe sleeve where as specification section 23 05 30, Page 2, 2.3B references Std Wt. galvanized steel pipe sleeves.				ŭ			
Please confirm which sleeves are to be used.							
-0358 BGP - Geothermal Ground Tempera	ature Probe Sleeve	Closed	12/11/2012	12/21/2012	12/19/2012	Potential	ly 🗌
From: Webcor Construction LP Robert Kjome	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawings: M1-5002				n of 2" temperat	ure probe sleeve		
Detail A on MI-5002 shows the 2" ground temperature probe sleeve terminating at grade. Detail 5 on M1-5002 shows the same pipe terminating at the same elevation as GLS/GLR piping.					pipes in their fina as shown on she		
Please provide an elevation drawing for the temperature probe pipe sleeve.							
-0359 BGP - Water Treatment for Geothern	nal	Closed	12/18/2012	12/18/2012	12/21/2012	Potential	ly 🖂
From: Webcor Construction LP Joanne Filipas	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification 23 57 34 Sub Section 3.4					g of the system is	5	
During the TG06 IFB process section 3.4 was added to the Ground Loop Heat Exchanger specifications. We believe this requirement is intended for a future bid package during the commissioning of the system. Please confirm.			. эда эа ао р				



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

407 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0360	BSE - Mud Slal	b Welded Wire Reinforcer	nent	Closed	12/21/2012	12/28/2012	01/03/2013	Potential	ly
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Webcor Consti	ruction LP Joar	ne Filipas	
Co-Author:									
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specificati	on Section: 03 20 01						ays, W/O will cor		
BBII would Reinforcer strictly con advantage help reduc subgrade, subgrade (the concrete reinforcement I like the option of using Definent (DWR) in lieu of rebar informs to ACI 318 and offers to rebar reinforcement. Pase the risk of inclement weath due to a quicker installation exposed for a shorter period upporting documentation.	ormed Welded Wire reinforcement. DWR multiple urticularly, DWR will her damage to the which will leave the			a completed F		subsequent to re stitution form fou		
Please cor	nfirm this is acceptable.								
Г-0361	BGP - Slab Per	netration Sleeve Slipsheet	s	Closed	01/03/2013	01/13/2013	01/11/2013	Potential	ly 🗌
From: Web	ocor Construction LP	Joanne Filipas	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	S1-3003:						vertical break in		
polyethyle compressi sleeve and distance b slipsheet a	ng piles are to be wrapped we ne (for 30" & 36" sleeves) or ble material (for 48") slipshed the piles. Because of the metween the sleeve weld and at the weld locations will be from the heat of the welding.	112" set between the ninimal the existing pile, the			silpsheet at th	e sieeve joint to	avoid burn dam	age.	
welding, ca break in th the bum da	heets cannot be damaged bean the slipsheets have a 3" of the slipsheets have a 3" of the version of the version of the version of the version of the state of the	or 4" vertical ertical welds to avoid wo							
Г-0362	BGP - Wall Ver	tical Reinforcement at 3rd	l Level Bracing	Closed	01/07/2013	01/17/2013	01/11/2013	Potential	ly 🗀
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Webcor Consti	ruction LP Rob		- 🔲



Page: Date:

Job:

408 of 1053 11/05/2013

30100

Time:

10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Drawing: S1-3201 George Metzger 1/10/2013 Contractor-proposed Reference Specification: 03 30 01 additional row of type 2 mechanical couplers is acceptable. Please reference attached sketch of the shoring wall section and CD S1-3201. Jeff Thiel 1/10/2013 Changes outlined in this RFI response shall be done at no additional cost to the To allow required access and sequencing for installation of the wall waterproofing and reinforcing steel, an additional row of type 2 mechanical couplers will be required on the back face walls directly below 3rd level of bracing. This will allow the following: 1. "Blocking out" the waterproofing at the waler beam packing locations will be avoided. 2. Provide required access for waterproofing installation. 3. Reduce the time installed waterproofing is exposed on wall before concrete pours. Please provide your approval of this additional row of couplers. T-0363 **BGP - Slab Penetration Sleeve Thickness** Closed 01/09/2013 01/19/2013 01/18/2013 Potentially From: Webcor Construction LP Answered By: Adamson Associates, Inc George Metzger Robert Kiome To: Turner Construction Compan Gary Krutsch Co-Author: **REQUEST:** SUGGESTION: ANSWER: **Accept Suggestion:** Reference Drawings: A1-8711 and S1-3003 The steel plate thickness shown on the Structural Sheet S1-3003 was revised from 3/8" thick to 1/2" Plan sheet A1-8711 details all of the slab penetration thick as a part of Addendum #1. In addition, sleeves to be fabricated of 3/8" steel. Plan sheet S1-3003 galvanization was called for. This change was details only the pin pile, trestle pile, and 48" bridge pier incorporated into the IFC set. sleeves to be fabricated of 1/2" steel. Please confirm that it is acceptable to fabricate all penetration sleeves of 3/8" For the Mat Slab penetrations not covered on sheet steel like that shown on A1-8711. S1-3003, the 3/8" thick sleeve (with galvanizing) as

From: Webcor Construction LP

shown on A1-8711 is acceptable.

To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc. George Metzger



T-0366

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

Page: Date:

409 of 1053 10:53 AM

30100

Time:

Potentially

Job:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

01/22/2013

01/22/2013

Answered By: Adamson Associates, Inc George Metzger

Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
Co-Author: Shimmick Construction Co	ompany, Inc Chris Williams								
REQUEST: Please refer to Specification 07 1/A1-8710.	12 10 3.3 and Drawing	SUGGESTION:		ANSWER: Accept Suggestion: 1. Paragraphs 11.4.1.1, 11.6 and 11.7 are not applicable to the blindside installation.					
Section 3.3 of the specifications performed in accordance with A Fully Adhered, Cold-Applied, Pre Modified Bituminous Membrane The WPM-1 vertical application blind-side WP application; howe written to address positive-side	STM D6769 (Application of efabricated Reinforced Waterproofing Systems). (071210-1.1, A.2) is a ver, the ASTM D6769 is			one ply applic vertical instal Project.	eation are not ap ation specified a 11.4.1.1, 11.7 is	gh 11.4.1.4 relating plicable to the 2 pland indicated on the sont applicable to	ily nis		
 Please confirm the blind -side covered under the ASTM D6769 the applicable ASTM requriemer application. Please confirm which section requirement is applicable to blind 3. The ASTM D6769 section 11 vertical waterproofing installation board installation" isn't feasibl work sequence to install concret place the foundation wall. Pleas the ASTM requirement is not appapplications. 	requirement or provide nt to perform the blind-side of the ASTM D6769 deside WP application. 7 requirement to "backfill in within 24 h of protective e due to the extensive e reinforcement, form and the confirm this section of			All other paragraphs apply where they do not conflict with the Project Specifications or the manufacturer's printed recommendations and specifications. In those cases, the Project and manufacturer's specifications are to be followed.					
T-0365 BSE - Mic	cropile W127 Relocation		Closed	01/15/2013	01/25/2013	01/17/2013	Potential	lly 🗌	
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered B	:Adamson Ass	ociates, Inc Georg	ge Metzger		
Co-Author: Balfour Beatty Infrastructu	re, Inc. Ural Yal								
REQUEST: Ref: Specification 31 63 33 Micropile W127 (5'-5 3/4" West of G.L. J) is located in an to drilling equipment. BBII propomicropile. Please confirm this is	area that is not accessible ses to eliminate this	SUGGESTION:	ANSWER: Accept Suggestion: The micropile shall not be eliminated. An acceptable relocation of micropile W127 is 13' to the north and 16' to the east (or contractor to propose a different relocation).						

To: Turner Construction Compan Gary Krutsch

BGP - WPM-1 - Adhesive Between Bottom Ply Waterproofing Membrane and Mud & Closed

Jackson Tukuafu



Page: Date:

Job:

410 of 1053 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Autho	or: Shimmick Construction Compa	ny, Inc Chris Williams							
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ease refer to attached Specification icle 3.3.	n Section 07 12 10,			The bottom s	heet is to be ins	stalled dry per 3.3,	В.	
of t the Per pol in a adh	r Specification Section 07 12 10-3 the waterproofing membrane is to polyethylene protection sheet fac r Specification Section 07 12 10, 3 yethylene protection sheet is to be adhesive (wet) such that each she nesive uniformly placed on it that intact with the other sheet.	be installed dry with ing the mud slab. 3, D, each installed embedded et will have enough							
be	the bottom sheet to be installed dr installed embedded in adhesive (v ease advise.								
T-0366.1	BGP - WPM-1	- Adhesive Between Bottom P	Ny Waterproofing Membrar	ne and mud : Closed	02/01/2013	02/11/2013	02/05/2013	Potential	llv 🖂
	m: Webcor Construction LP	Lynn Kowallis	To: Turner Construction (ociates, Inc Georg		.,
Co-Autho	or:	,	Tumor Construction	ompan Cary radioon		, , , , , , , , , , , , , , , , , , , ,	colates, me coorg	,o motzgoi	
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	agestion:		
the the adh the me rec	e response to RFI T-0366 directs of bottom waterproofing membrane is mud slab. If the membrane is instruction in the side is made and mud slab. This water for membrane and mud slab. This water the sommendation, the waterproofing referred to the mud slab with adhesing the source.	without adhesive to talled dry or without rom entering between buld cause the e manufacturer's nembrane is to be			installation, in protection she	tion is correct. stalling the first eet facing the m			
Ple	ease advise.								
T-0367	BGP - REBAR	t - Vertical Pit - Two Piece Bar		Closed	01/17/2013	01/27/2013	01/25/2013	Potential	llv 🖂
Fro	m: Webcor Construction LP	Robert Kjome	To: Turner Construction (Compan Gary Krutsch	Answered By	y :Adamson Ass	ociates, Inc Georg	e Metzger	, _—
Co-Autho	or: Shimmick Construction Compa	ny, Inc Ben Gordon							
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ease refer to Specification Section ached drawing S1-3004, S1-3006						or vertical "Z" bars	around	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

411 of 1053 11/05/2013 10:53 AM

30100

Time:

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed SK-RFI014. Concrete reinforcement details around the mat slab pit sections shown on drawing SI-3004 and SI-3006 depict a continuous vertical "Z" bar around the pit slab edge. Please confirm the proposed lap splice detail and requirements as shown in the attached Gerdau sketch SK-RFI014 is acceptable. T-0368 01/17/2013 **BGP - Hub and Spigot Type Pipe Support Spacing** Closed 01/27/2013 02/01/2013 From: Webcor Construction LP Answered By: Adamson Associates, Inc George Metzger Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: Shimmick Construction Company, Inc Ben Gordon REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Specification: 22 13 01, 3.2 The required support spacing for horizontal hub and Reference Drawings: P1-6001 spigot cast iron piping is the same as for the no-hub piping. In Section 3.2 C, Supports, the support spacing for all horizontal cast iron no-hub pipe is specified to be 10 feet maximum, and within 6 inches at each side of each joint; however, the support spacing for all horizontal cast iron hub and spigot type pipe is not provided. Please provide the required support spacing for the horizontal cast iron hub and spigot type pipe. T-0369 BGP - REBAR - Headed Steel Bar Shear Conflict in Mat Slab Closed 01/21/2013 01/31/2013 01/25/2013 Potentially From: Webcor Construction LP Jackson Tukuafu Answered By: Adamson Associates, Inc George Metzger To: Turner Construction Compan Gary Krutsch Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

Please refer to attached drawing S1-3005 and S1-2022.

Detail 3 on sheet S1-3005 depicts the full size T-head bars as they interface with the mat reinforcement. The same detail includes additional reinforcement depicted at column locations. The reinforcement (open circles) is shown

SUGGESTION:

Gerdau proposes to place the added reinforcement directly in line and above the main mat reinforcement in both directions as required. The suggested proposal may require several additional layers of steel to accommodate the total quantity of added bars at each column. Furthermore, it is unknown whether

ANSWER: **Accept Suggestion:**

Contractor-proposed placement of additional mat bottom rebar to an upper layer is not acceptable. Placement of the vertical headed bars is construction means and methods. However, it is acceptable to move the additional mat bottom rebar horizontally a maximum of 3/4", as required.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

412 of 1053 11/05/2013 10:53 AM

Time: 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

between the typical main mat reinforcement and others are aligned with above layers one and two of the main mat reinforcement as defined in note 4 and 6 on sheet S1-2002. As a result, the clearances created by the #10 main mat reinforcement being spaced at 8" O.C. and the 3" square heads at the ends of the #8 T-heads (refer 2/S1-3005) do not allow enough of a clearance to install the headed bars into position. Refer to the annotations in the attached drawings.

Please advise.

another conflict is created at the column dowel Theads.

T-0370 BGP - WPM-1 - Mud Slab Finish for Waterproofing

Jackson Tukuafu

Closed

02/01/2013

01/22/2013

ANSWER:

ACI 117.

01/25/2013

Potentially

From: Webcor Construction LP

To: Turner Construction Compan Gary Krutsch

Co-Author: Shimmick Construction Company, Inc Chris Williams

REQUEST:

Specification Section 07 12 10, 3.2

The concrete surface profile (CSP) required by the waterproofing manufacturer Laurenco, ranges between a CSP level of 2 and 4 as defined by the International Concrete Repair Institute (ICRI) of technical guide "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays," The ICRI defines the levels of CSP as 1 (nearly flat) to CSP Level 9 (very rough). The Laurenco waterproofing system requires "a good wood screed or broom finish...often referred to as a 'sidewalk' finish..Do not use a steel trowel finish." See attached excerpt of the manufacturer specification.

- 1. Please confirm the ICRI CSP requirements as it relates to surface finish, flatness and levelness are to supersede the varving ASTM F-value requirements setforth in specification section 033000-3.6, B1 or provide a revised specification section 033000 incorporating the ICRI requirement.
- 2. Please confirm a wood screed or broom finish is acceptable for the mud slab.

SUGGESTION:

1. ICRI CSP requirements are not appropriate for the mud slab. The mud slab in being poured, not repaired. The International Concrete Repair Institute CSP scale is used for existing concrete surfaces when they are being acid etched, ground or shotblasted. The appropriate finishing for the mud slab is described in the BGP Specification 03 30 00 Cast in Place Concrete 3.6 Concrete Finishes and calls for compliance with the American Concrete Institute concrete finish recommendations ACI 302.1R and ACI

304R, with dimensional tolerance limitations given by

Answered By: Adamson Associates, Inc George Metzger

Accept Suggestion:

2. Specification 03 30 00, 3.6 C stipulates: Finish for monolithic slab surfaces to be covered with membrane i.e. the entire mud slab is covered with membrane. is to be a Float Finish. Note that 3.6 C. 1.d for Float Finish has the same finish surface values as 3.6 D. 3., which is the finish for Pedestrian Sidewalks and Ramps and this criteria is compatible with the Waterproofing Manufacturer's requirement for a good wood screed finish (a good "sidewalk" finish).

No revisions to the specification are required.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

call for a coupler at the mud slab level to allow the projected portion of the bars be dissembled to avoid

413 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0371	BSE - Micropile	e W154 & W236 Bent Afte	r Install	Closed	01/22/2013	02/01/2013	01/29/2013	Potential	ly 🗌
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construc	tion Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	ce Specification: 31 63 33 ce Drawings: Sheet ML-1 (App ubmittal.)	proved Micropile				d re-drilled in n	erienced an impa ew locations. Co		
approxim 2.5%. It equipme	offt of micropile W154 is out of nately 8% and micropile W236 appears that the piles have be not and bent near subgrade. Blould be left as-is. Please confinate.	s is out of plumb een hit by a piece of BII recommends the							
again. TI damagin	take steps to ensure this does he importance of taking specia g permanent work will be an e talks for crews running equipn es.	al care to avoid emphasized topic in							
please p	rent that a micropile becomes rovide the design teams perce micropile can be out of plumb.	entage of tolerance							
-0371.1	BSE - Micropile	e W154 & W236 Bent Afte	r Install	Closed	02/04/2013	02/14/2013	02/06/2013	Potential	ly 🗌
From: We	ebcor Construction LP	Lynn Kowallis	To: Turner Construc	tion Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Spe	ecification Section 31 63 33 3.2	2.L			•		Rejected and sh		
that piles and re-d specifica the Micro and the a bent bac are the p	n receipt of reply to RFI T-037 is which have experienced an irilled. Acceptance of piles is button 31 63 33 3.2.L. Per the receipting Engineer (Drill Tech's Steanchor bar manufacturer (DSI) is to plumb and retested on 02 passing proof test results for the confirm that these piles are acceptance.	mpact be rejected ased on ecommendation of eve McCullough), the piles were 2/01/2013. Attached ne piles in question.			not limited to, * de-bondin * cracking c ability to provi * the ULTIM have been cor the proof test Unless the cor that addresses approved by T	the following: g of bars and gi f the grout that de corrosion pro IATE uplift capa mpromised, whi intractor can pro is the concerns I JPA, the piles is	concerns included frout may compromise tection of the balacity of the pile much cannot be verwide sufficient evisted above and shall remain as Recontract documents.	e its r ight ffied by idence ejected.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 414 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

: 10:53 AM 30100

lumber	Subject			Status	Created	Required	Answered	Impact	Procee
					from being hit shown and ta coupler as so	blem. If BBI car t again, BBI sha ke down the por on as the pile is s above the cou	er as ove the re-		
-0371.2	BSE - Micropi	le W154 & W236 Bent Afte	r Install	Closed	02/08/2013	02/18/2013	02/11/2013	Potentia	lly 🗌
From: Webco	r Construction LP	Lynn Kowallis	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
BBII is in receipt of reply to RFI T-0371.1, which confirms that piles W154 and W236 are rejected. Per response to RFI T-0371, BBII proposes piles W154R1 and W236R1 be drilled at the locations on the attached drawing. Piles W154 and W236 will be cut off at bottom of mud slab and the mud slab blackouts poured back.					of micropiles	W154R1 & W23 ethod of abando	object to new loc 36R1 as proposed Inment for piles W	l, as	
	m that these pile locatio tare acceptable.	ns and method of pile							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

415 of 1053

Page: Date:

Time:

Job:

10:53 AM 30100

umber		Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0372		BGP - WPM-1 - Filte	er Fabric in Waterproofing	System	Closed	01/23/2013	02/02/2013	01/31/2013	Potentially	у 🗌
Fro	m: Webcor Constr	uction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Auth	or:									
	EQUEST: ecification Section:	07 12 10 2.5 D		SUGGESTION:		ANSWER: Filter Fabric is	Accept Sugg not required.	gestion:		
as Sy dra ha:	an accesory to the stem. After reviewings, and speakings.	07 12 10 2.5 D requir Modified Bitumen Wa ng Shimmick's waterp ng with a Laurenco re hat filter fabric is not u	aterproofing roofing shop oresentative, it							
	ease confirm that fi 10 2.5 D is not req	Iter fabric as specified uired.	in section 07							
-0373		BGP - Zone 1 Conc	rete Partition Wall Detail		Closed	01/24/2013	02/03/2013	01/29/2013	Potentially	у 🗌
Fro	m: Webcor Constr	uction LP	Joanne Filipas	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Auth	or:									
Re Dra Gri the S1	idlines 1 and 2.3 arese same walls do	ws concrete partition nd Gridlines D.4 to E.6 not appear on drawing irm if the walls are red	s; however, s SI-2022 or	er, 2 or			neet note 7 on S	gestion: or architectural dr 11-2052. Note th 1-2022 Mat Botto	at walls	
-0374		BGP - Mat Slab She	ear Wall Detail Clarificatio	n	Closed	01/24/2013	02/03/2013	01/29/2013	Potentially	у 🗌
Fro	m: Webcor Constr	uction LP	Joanne Filipas	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Auth	or:									
Co 1.4 lar	to 2 and K.5 to L tge opening; howev	820 depicts a shear withat is discontinuous a er, drawing S 1-2030 Please confirm which	ind contains a does not depict	SUGGESTION:		ANSWER: Structural dra at mat level de	•	gestion: ct. Opening in sl	nearwall	



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 416 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0375	BGP - Plumbii	ng Drainage Invert Elevation	on	Closed	01/24/2013 02/	02/03/2013	02/01/2013	Potential	iy 🗌
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction C	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference P1-2	2026					vation for draina	ige piping from the	ne catch	
the drainage sy drawing shows pit, however; th opposite. Pleas out on P 1-202	ce attached contract di ystem at the SP B2-D-2 19 flow from the catch he specified invert elevance se confirm that the inver- 6 are correct, if not ple his to be used for the drance.	Referenced basin to the sump ations call out the ert elevations called ase specify new pipe			Dadino to dan	pe 10 00 10 .			
T-0376	BGP - Column	n Spiral Reinforcing in Lieu	ı of Individual Ties	Closed	01/24/2013	02/03/2013	01/30/2013	Potential	ly
	Construction LP	Joanne Filipas	To: Turner Construction C	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Gerdau is requ the #6 individua drawings SI-33 B1, B2 and B3. maintain 3.5" p column and 4.5	assing the use of spiral al stirrups/hoops that a sign and SI-3304 detail and the spiral reinforcing bitch for the B1 column, by pitch for the B3 colural at the pitch indicated	are shown on contract 1 for column types would be #5 and , 3" pitch for the B2 mn. Please confirm			meet the volu reinforcement request is dec and C11, if th with the spaci 3300, that is a	metric ratio of sit requirement in clined in current e contractor preing specified for acceptable to the	the contractor of the contract	re the ns C10 irals heet S1- est	
					size and pitch		for Column C12 all be #5 and 3", in height.	t, the	
					· ·	•	nent is used, det ion 7.4 shall be f	•	
T-0377	BGP - Two Pie	ece Oval Hoop Columns A	1, A2, & A3 To: Turner Construction C	Closed	01/24/2013 Answered By	02/03/2013	01/29/2013 ociates, Inc Geo	Potential	iy



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

417 of 1053 11/05/2013

Date: Time:

2: 10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	S1-3304				Contractor-pro	posed lap splic	es are not accepta	able.	
in lieu of the drawing S1 proposes to	ofirm it is acceptable to use a see single-piece oval tie, as del-3304, for columns Al, A2 at o use a lap splice along the either side of the hoop.	epicted on contract ind A3. Gerdau							
-0378	BGP - Drainage	e Catch Basin Clarification		Closed	01/24/2013	02/03/2013	02/01/2013	Potential	ly 🗌
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	P1-2022						onnected to these	two	
connected 2022. Pleas	two (clouded) sump pits atta to any of the drainage syste se confirm that there are no to these two sump pits.	em called out on PI-			sump pits.				
-0379	BGP - Geother	mal Pipe Fusion Butt Weld		Closed	01/24/2013	01/24/2013	01/29/2013	Potential	lv 🗆
	cor Construction LP	Robert Kjome	To: Turner Construction Compan				ociates, Inc Georg		.,
Co-Author:		. rezerr qee	10. Turner Construction Compan	Cary Riutson	7	-Additiooti Assi	ociales, inc occin	ge Metzger	
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Specification: 23 57 34				Butt Fusion is	an Acceptable	method of heat fu	sing	
only socket This insinua However, p welding doe	nse to Submittal TG0601-00 t fittings and electrofusion fi ates that Butt Fusion welds per Specification Section 23 es not seem to be preclude acceptable per the IGSHP A	ttings are allowed. are not allowable. 57 34, Butt Fusion d. The butt fusion			ground loop pi	pilig.			
	nfirm that butt fusion welding contract for the geothermal	•							



plug, spigot outlet; 'No. 4220-G Series' by J.R. Smith, 'No. ZI400-G-VP Series' by Zurn Industries, Inc., Mifab C1100-

Please confirm which type of floor cleanout is required.

RI3-6 or equal."

Webcor/Obayashi Joint Venture

Page: Date:

418 of 1053 11/05/2013

10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job: 30100

JOINT VENTURE	Date Date Cost							
Number	Subject			Status				
T-0380	BSE - K9 Buttr	ess shaft CSL Tubes		Closed	01/28/2013	02/07/2013	02/14/2013	Potentially
From: Webcor Constru	iction LP	Lynn Kowallis	To: Turner Construct	tion Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger
Co-Author: Shimmick Const	truction Compar	ny, Inc Chris Williams						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference attached sk	ketch and spread	dsheet.			The Contracto	or's proposal is a		
We were informed by CSL tubes for the last interface will not be CS shaft interfaces (gener BBII's opinion that it w if it is installed without following: There would voids; and there would CSL tubes are require per the attached drawi	rebar cage K9. SL tested, per thrated by Arup ar rould be more be CSL tubes. The beno need to go be more concret, we are proposed.	Since K8/K9 ne agreed upon list of and BBII), it is in eneficial to the shaft benefits include the grout the holes; no ete in the shaft. If						
T-0381	BGP - PLUMBI	ING Floor Cleanout Requi	rement	Closed	01/28/2013	02/07/2013	02/01/2013	Potentially
From: Webcor Constru		Robert Kjome		tion Compan Gary Krutsch			ociates, Inc Geo	
Co-Author: Shimmick Const	truction Compar	ny, Inc Ben Gordon		, , , , , , , , , , , , , , , , , , , ,	•		,	3 3-
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:	
Reference Specification Reference Drawing: P					The correct n	nodel no. is MIF	AB C-1000-R/S on drawing P1-0	1
Drawing P1-0051 spec 100-R/S" with remarks AND PLUG, HEAVY D item dffers from the flo 22 13 01-2.3.A.3 which iron cleanout with rour top, vandal proof scree	s of "STAINLES: DUTY, ANCHOR por cleanout req h calls for "Extra nd adjustable ga	S STEEL COVER R FLANGE". This uired in Spec section I heavy duty cast Ivanized cast iron						

T-0382	BSE - Eliminate	CSL Tubes from Shaft D1	Closed	01/31/2013	02/10/2013	02/07/2013	Potentially
From: Webcor Construction LP Robert Kjome		To: Turner Construction Compan Gary Krutsch	Answered By	:Webcor Const	uction LP Lynr	Kowallis	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 419 of 1053 11/05/2013 10:53 AM

Time:
Job:

: 10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author: Bal	Ifour Beatty Infrastructure, Inc.	Ernie Cortez							
REQUES	ST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference attached Arup email dated 1/29/2013.					Confirmed. Th Shaft D1.	e added QC co	re shall be locate	d in	
need for (onfirm that Shaft D1 can be insta CSL tubes. At Arup's direction, a ne owner, BBII will provide a QC on to native soil.	nd at no extra			SHAIL DT.				
-0383	BGP - Drainage FI	ow Lines		Closed	01/31/2013	02/10/2013	02/07/2013	Potential	ly 🗀
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	- 🗀
Co-Author: Shi	immick Construction Company, I	nc Chris Williams	·	·					
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification: 22 13 01 Reference Drawing: P1-2022 & P1-2030					The pipe inver as uniformly as		sumps were estab	olished	
2030. The elevations the sump catch bas	eference contract drawings P1-20 ere is a discrepancy between the s of the pipe inverts and the flow pits and catch basins. All pipe in sins are to be set to El36.83' are pits are at either El37.50' or -3	called out grades between overts at the nd pipe inverts at			An 18% slope ft.).	is acceptable fo	or short runs (app	гох. 4	
called out	ng pipe runs the flow grade match t on the plans. However, on the s e is up to 18%.								
	larify which details governs, and acceptable.	whether the 18%							
-0384	BSE - Dry Excava	ion of Buttress Shaft D1		Closed	02/01/2013	02/11/2013	02/12/2013	Potential	ly 🗌
From: We	ebcor Construction LP	Lynn Kowallis	To: Turner Construction Comp	oan Garv Krutsch			ociates, Inc Geor		,
Co-Author: Bal	Ifour Beatty Infrastructure, Inc.	Ernie Cortez	·	•				0 0	
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	e attached Arup email dated 1/30	0/2013.			ARUP Respon	ise:			
Becho wi Arup's en	ill proceed on excavating Shaft D	1 dry as per				•	day that this RFI from Arup is nec		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

420 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

	30100 - Hallsbay Hallsh Center Project										
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
Please confirm th	nis is still acceptable).									
T-0385	BSE - Micriop	oile Moves in NW Corner W	/013, W031, W047, W198.	Closed	02/05/2013	02/15/2013	02/06/2013	Potential	ly 🗌		
From: Webcor Co	onstruction LP	Lynn Kowallis	To: Turner Construction Con	mpan Gary Krutsch	Answered By: Adamson Associates, Inc George Metzger						
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:				
Ref: Submittal Pa	akage TG0601-009.	1 - 235734-003.1		Thornton Tomasetti does not object to moving micropiles (W013, W198, W031, W047) as proposed.							
	out of micropiles in to covered two micropiles				micropiles (wd	713, W 196, WO	31, w047) as pr	posea.			
proposes moving appear to conflict 02/04/13. 2. Pipe W198 is t supports. BBII proposes This appears to expense	this pile 4' Southwe twith Ghex shop dra too close to overhea oposes moving this	awings revision date Id struts and strut pile 2' Northwest. or a "jog" in the Ghex									

Upon drilling two piles in the NW corner of Zone 1, Drill Tech discovered unforeseen obstructions below grade (reference COM1741 sent 02/04/2013). Relocation of these micropiles is required.

1. Pile W031 encountered an obstruction below grade which did not allow installation of the anchor bar in the drilled hole. After discovery of the obstruction, the pile was relocated 2' Northwest of its planned location. Installation of the micropile was completed on 02/01/2013. This does not appear to conflict with Ghex shop drawings revision date 02/04/13. 2. Pile W047 encountered an obstruction below grade which did not allow the micropile hole to be drilled past approximately 12'. BBII proposes to relocate this pile 2.8' Southwest. This appears to conflict with Ghex piping shown in Ghex shop drawings revision date 02/04/13 and

may require the addition of a "jog".



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

421 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

ANSWER:

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Please confirm these changes are acceptable. T-0386 **BSE - Elevator Pit Dimensions** 02/05/2013 Closed 02/15/2013 02/07/2013 Potentially From: Webcor Construction LP Lvnn Kowallis To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Ref: SI-2024 and Detail 3/S1-3008 The west edge of the thickened mat as dimensioned in the RFI sketch is 7'-0" from gridline 15. The slab depression between Gridlines 15 &16 Between Gridlines B & C does not contain enough dimensions to The east edge of the thickened mat as dimensioned in construct. Detail 3/S1-3008 Note 2 states "For extent of the RFI sketch is 23'-1" from gridline 15. thickened mat see plan." Plan sheet S1-2024 revision 2 dated 11/27/2012 provides width of the pit in the North-South direction, but does not provide the length of the pit in the East-West direction. Please provide these dimensions. T-0387 **BGP - Geothermal Loop Compaction Requirements** Closed 02/07/2013 02/17/2013 02/15/2013 Potentially From: Webcor Construction LP Answered By: Adamson Associates, Inc George Metzger Lvnn Kowallis To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Specification: 31 23 34 3.3 F ARUP Response: Per Specification Section 31 23 34, Section 3.3, Part F. Achieving 95% compaction in the trenches is possible. the trench is required to be compacted to 95%. To acheive 95% compaction, the surrounding soil must have an equal or greater compaction. Please confirm. T-0388 **BGP - Temperature Probe Sleeve Penetration** Closed 02/08/2013 02/18/2013 02/14/2013 Potentially From: Webcor Construction LP Lynn Kowallis To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger

SUGGESTION:



laboratory tests, and consequently used as basis for

rejection of material.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 422 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Ref: TG06.1 Bid Package - 5/M1-505002 The TG06.1 bid package, M1-5002 a temperature probe sleeve in Deta probe sleeve to penetrate through tin the TG06.0 M1-5002, Detail 5 or through the wall like the TG06.1 do Please advise.	drawing does not show il 5. Is the temperature he wall like it is shown is it not to penetrate		described in I 0006 within B Notes . Temp	Note 6, of both p Below Grade pac perature probe p	gestion: ould be installed a backages, on she kage (TGO6) Me iping was added to for clarification.	et M- chanical	
0389 BGP - Cast-	in-place Concrete Shrinkage	Closed	02/11/2013	02/21/2013	02/22/2013	Potentia	llv 🗆
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction Compan Gary Krutsch			ociates, Inc Geor		
Co-Author:	Lymritowallio	10. Turner Construction Company Gary Ridisch	Allowered D	y-Auailisoii Ass	ociates, inc Geoi	ige weizger	
REQUEST: Ref: Specification Section 03 30 20	4750:	SUGGESTION:	ANSWER:	Accept Sug	gestion:	Salaaaa	
Please reference attached ACTM C SEONC San Francisco Bay Area C Report 2008, and Specification Sec ASTM 157 section 4.3 states that if mixing, curing sampling and storag in the test method are required, the are not to be considered as standal method. In section 6. Sampling, it r batches made in the laboratory and field cast specimens can show up t shrinkage as laboratory cast specim materials and proportions. Furthern states that "actual shrinkage of the in field-cured tests will not necessa with the trial batch test results." For believes that shrinkage tests from s can not verify the specified shrinkage limit and can not laboratory tests.	c 157, pages from oncrete Aggregate tion 03 30 20- 1.7.F.3.i. the condition of e other than specified y shall be reported but d conditions of this test equires samples from the Note 2 states that o twice as much drying nens from the same nore, SEONC 2008 concrete in service and rily correlate closely these reasons SCCI samples at the job site		tests shall be modified SEC It is recognize necessarily c results, which In accordance used for the e specified. Ho	in accordance of DNC Recommer ed that the field correlate closely in should be antice with SEONC, the evaluation of the powever, rejection	with ASTM C157	l not h test lding. t will be as our will	
Please confirm that shrinkage resultaken in the field will not be directly							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 423 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

10:53 AM 30100

lumber	Subject	Subject BGP - Floor Drain FD-1 Clarification			Date Created	Date Required	Date Answered	Cost Impact	Proceed		
-0390	BGP - Floor D				02/12/2013	02/22/2013	02/20/2013	Potential	ly		
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	sch Answered By: Adamson Associates, Inc George Metz						
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Ref: P1-0051						rain grate is squ					
The "Drains and Cleanout Schedule" on drawing P1-0051 calls Floor Drain FD-1 to be Mifab F-1000-S with a grate size of 6" in diameter. Per the manufacturer, F-1000-S has a square grate.							 The square grate dimensions are 6"x6". Yes. This floor drain will be used extensively throughout the project. The membrane clamp will be used where there is a membrane. 				
square? 2. If it is square square grate? 3. The remarks	drain grate to be round on the ding of the	nensions of the Clamping Device." Is									
Please advise											
	DOD 7	O Dit Dth		011	00/40/0040	00/00/0040	00/40/0040	Datandal			
-0391		Sump Pit Depth	To. 7	Closed	02/13/2013	02/23/2013	02/19/2013	Potential	іу 🔛		
Co-Author:	Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered by	Adamson Asso	ociates, Inc Geo	rge Metzger			
			0110000000000		*******		. \Box				
REQUEST: Ref: A1-9215 a	and \$1,2006		SUGGESTION:		ANSWER:	Accept Sug	gestion:	en Toc			
Please confirm -42'-4"" and "S	n in drawing Al-9215, th P TOC -46'-4"" for the sand 4-5 are referring to	sump pits between			46'4", shown ((B2230), are r	on A1-9215 at th	ne Sewage Ejecton of the street of the stree	or Room			
	p pits, as illustrated in t										
-0392	BGP - CMU Pa	artition Walls		Closed	02/15/2013	02/25/2013	02/20/2013	Potential	ly 🗌		
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference A-2	Reference A-2224 and A-0022			We confirm these walls are partition type 6. Note for all CMU wall type tags on the drawings showing a dot							
Sheet A-2224 shows future CMU partition walls as type .6.						ype tags on the the dot is to be i	•	ig a dot			



Co-Author:

REQUEST:

Ref: P 1-0051

Webcor/Obayashi Joint Venture

Page: Date:

Job:

424 of 1053 11/05/2013

30100

Time:

10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Please confirm these walls are partition type 6. T-0393 BGP - Reinforcement anchoring stagger and clearance for "addl bottom bars" 02/15/2013 02/25/2013 02/27/2013 Potentially Closed From: Webcor Construction LP Lynn Kowallis To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference 3/S1-3006 1. Confirmed, no stagger for bottom of column vertical bars. 1. Confirm there is no stagger for the reinforcement anchoring. 2. The column bars extend down to (sit on top of) the 2. Provide the minimum clearance for the reinforcement mat bottom bars (and "addl bottom bars"). anchoring to the "addl bottom bars". T-0394 **BSE - Micropile Relocations at Beale Street** 02/19/2013 03/01/2013 02/22/2013 Closed Potentially From: Webcor Construction LP Answered By: Adamson Associates, Inc George Metzger Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: Balfour Beatty Infrastructure. Inc. **Brandon Miller** REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Specification: 31 63 33 We assume the direction of each micropile move is per graphic sketch with arrows vs the table since the Eight micropiles will be in conflict with the Beale Street direction of move per table is not consistent with the Bridge Piles; BBII proposes relocating these micropiles to graphics. Thornton Tomasetti does not object to provide adequate clearance. See attached chart and moving micropiles E845, E874, E842, E885, E834, drawings for proposed relocation information. E877, E831, E860 as proposed. Please confirm these relocations are acceptable. T-0395 **BGP - Floor Sink FSK-2 Clarification** Closed 02/19/2013 03/01/2013 03/05/2013 Potentially From: Webcor Construction LP Lynn Kowallis To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger

ANSWER:

Refer to the attached cut sheet.

Accept Suggestion:

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 425 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

			<i>J</i>		,			
umber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
The "Drains and Cleanout Schedule" on calls for Floor Sink FSK-2 to be Mifab F This model is not available per discussion and the manufacturer.	S 1700-1 -FLC-5.							
Please confirm required floor sink mode	l							
-0396 BGP - Curb Fran	ne Steel and Anchor Clip Red	quirements	Closed	02/19/2013	03/01/2013	02/28/2013	Potentiall	ly 🗌
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: 8/P1-6001					ame thickness i			
Detail 8 on drawing PI-6001 calls out a "I galvanized steel custom made curb fran concrete." Please provide the following	ne embedded in				ere will be two a	-2", they are weld unchor clips on ea		
 Thickness of steel for curb frame. Anchor clip details (size, spacing, cor frame). 	nnection to curb					nts for the custom mit shop drawing		
-0396.1 BGP - Drainage	Pits Embedded Frame Detail	s and Curb Frame Steel	and Anchor C Closed	03/04/2013	03/14/2013	03/08/2013	Potentiall	
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction				ociates, Inc Geor		,
Co-Author:	,	Tarret Concuración	Compan Cary Radioon		-7 (44111001171001	oolatoo, mo oool	go morzgor	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gostion.		
Ref: 8/P1-6001, DS-0001, RFI # 396		SUGGESTION.		_		he frame materia	l is 3/8"	
Detail 8 on P1-6001 does not specify the thickness of the frame material, nor any of the Specs and Addendums. Based on RFI 396, Designer specified for the frames to be 5/8" thick. However SCCI believes that ¼" thick frame is				and not 5/8" a T-0396. The	s previously pro construction of t il 8/P1-6001. W	ovided in respons the frame is very /elded stock angl	e to RFI clearly	
adequate to satisfy "heavy duty requirer estimated the Work to fabricate the emb out of the stock angles (2x2x½" and 3x2 SCCI's drawing DS-0001. Further to RF	nent". SCCI's has bedded grate frame 2x¼"), per attached			2. Nelson stu	ds can be used	in lieu of anchor	clips.	



T-0397

From: Webcor Construction LP

BGP - RCW Dimension Clarification

Joanne Filipas

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Closed

02/21/2013

03/03/2013

Answered By: Adamson Associates, Inc George Metzger

02/28/2013

Potentially

Page: Date:

426 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce	
construction of 2. Could Nels as noted on the Please note to consequently	angle sizes noted above of the embedded frames? son studs be used in lieu the attached drawing? that increase of the mater increases the cost of fur constitute a compensable	of the anchor clips, rial size nished material, and								
T-0396.2	•	e Pits Embedded Frame G		Closed	03/22/2013	04/01/2013	04/01/2013	Potential	ly	
	r Construction LP	Robert Kjome	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger		
	ick Construction Compan	iy, inc Filip Filipic								
REQUEST:	'('1'00.40.04		SUGGESTION:		ANSWER: Accept Suggestion:					
Reference Specification: 23 13 01 Reference Drawings: P1-6001 Reference RFIs: T-0396, T-0396.1 Detail 8 on CD P1-6001 does not provide enough details for assembly and fabrication of the embedded frames. SCCI's drawing attachment in the RFI 396 series provides such details.				The construction of the embedded frame is cleshown in detail 8/P1-6001 as a formed frame. proposed assembly including two angles with devel groove weld is acceptable. Contractor to provide submittal for frames and grates.						
Record) on 3 drawings of the discussed SC two angles to Weld is chan	scussion with the SER(St //21/2013, see attached re he embedded grate asser CCI has revised the weld be be used to fabricate the ged to T-joint, PJP double (references 8-56, table ED.)	evised SCCI's mblies. As detail between the embedded frames. e bevel groove weld								
Is it acceptab per attached	ole to construct the embed detail?	dded grate frames								

To: Turner Construction Compan Gary Krutsch



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 427 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST	`` ``		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	A1-2123 and attached.					between gridline	es 12-13 and G-H,		
Between gridelines 12-13 and G-H there appears to be two conflicting dimensions. Please confirm the 7'3" dimension is from gridline H to the work the point.					point is correc The 7'-1 3/8" (West corner of platform is cu	ct. The dimension dimension from of the train platforved, which acc	om gridline H to the sare not conflict gridline H is to the orm knee wall. The ounts for the slighten the corner and	ting. e South e t	
-0398	BGP - Vehicle	Ramp Concrete Corbel Di	mension	Closed	02/21/2013	03/03/2013	02/28/2013	Potential	ly 🗌
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	A1-2310 and S1-2251						ch is referenced fr		
	vide dimension for the cont ne vehicle/bike ramp.	inuous concrete			vehicle/bike ra	amp on the exte	corbel dimensions rior of the foundat from top of found	ion	
-0399	BGP - Polystyr	rene Void Fill Material		Closed	02/21/2013	03/03/2013	03/05/2013	Potential	ly
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	· 🗀
Co-Author:									
REQUEST	`` ``		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	A1-7404 and 03 30 20					elow the ramp is	only required to t		
	vide the PSI and specificati e void fill called out in detail				is "Structural description of	Polystyrene use type refer to Su	k cannot be remord as Typical Fill". perstructure e Concrete 03 30	For	
-0400	BGP - Seismic	Joint Detail		Closed	02/21/2013	03/03/2013	03/06/2013	Potential	ly
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction	Compan Gary Krutsch	Answered By	:Webcor Const	ruction LP Robe	rt Kjome	·



Please provide the dimension between the vehicle ramp

and column.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 428 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	<u> </u>							
The detail 4/S1-	010, A1-8881, & A1-8882 3010 does not appear to be coordinate shown on A1-8881 and A1-8882. Pleasyly.			details for the 2594 and SK, modifications 8882, which v Package ASI. S1-3010 com 1. 4/S1-301 seismic joint I shown on Arc 2. 4/S1-301 to the joint when beds. Embarchitectural oper the struct 3. 4/S1-301 of curb of gut the plate with seismic joint, 4. Note that have been ad S1-3010 com 1. Dimension	Seismic Joint of A-2595 show the made to drawin will be issued with pared to A1-888 of does not included below the 5' Matchitectural details of shows deforming as A1-8881 and drawings as ancural drawings. O shows plate we ter where as architectural dength sathis has been and the water stop in the w	arral and architecturn GL 35. Attache a coordination gs A1-8881 and Ah the next Below 1: de/detail part of the Slab (these parts s). ed bar anchors we details shows differ been removed the horing / attachment in the hole to fully continuous as other side dijusted. njection hose locular as the bear anchors we details shows differ been removed the horing of attachment in the hole to fully continuous as other side dijusted. njection hose locular as the bear as other side dijusted.	d SKA- A1- Grade ne s was elded ferent from the nt is over top shows of	
T-0401	BGP - Dimension Clarification	n between Column and Slab at Ramp	Closed	02/21/2013	03/03/2013	02/28/2013	Potential	
From: Webcor C Co-Author:		·				ociates, Inc Geor		· 🗀
REQUEST: Reference 5/S1-	3502 and attached.	SUGGESTION:		ANSWER: Dimension be	Accept Sug	gestion:	s 1/2".	



sheet S1-3201 to reference the proposed location. Should

this be acceptable please verify:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

429 of 1053 11/05/2013 10:53 AM

30100

Time:

lumber	Subject	Subject BGP - Dimension at slab and parapet wall footing detail			Date Created 02/21/2013	Date Required 03/03/2013	Date Answered 02/28/2013	Cost Impact Potentially	<i>Procee</i>	
-0402	BGP - Dimens									
From: Webcor C	Construction LP	Joanne Filipas	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author:										
REQUEST: Reference 4/S1-3210 and attached.			SUGGESTION:	ANSWER: Accept Suggestion: The gap width dimension is specified on plan S1-						
Please provide and parapet wa	dimension between the II footing.	e ground level slab			2310.					
-0403 BSE - Mud Slab Flatness and Levelness Testing			Testing	Closed	02/21/2013	03/03/2013	02/27/2013	Potentiall	y	
From: Webcor Construction LP Lynn Kowallis To: Turner Construction Con			ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger			
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: 03 3	Reference: 03 30 00 3.6.C.1.d				•		of all concrete po			
	he Turner's request, pl					ecial inspectors	of the mud and positions is not required.	rotection		
	ction does not apply to	Webcor Also, it step-off would d				The mud slab is to have falls to drain, as suggested by Webcor, for water management during construction. Also, it is important that the mud slab does not have step-offs or alignment issues between pours that would create voids or cause the waterproofing membrane to tent.				
-0404	BGP - Replace	ement of Lap Splice with N	lechanical Couplers	Closed	02/22/2013	03/04/2013	03/06/2013	Potentiall	 y	
From: Webcor C	Construction LP	Lynn Kowallis	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Ref: S1/3201							lap splice with a			
with an approve as needed to su construction. The outside face wa extending from	at it is acceptable to read mechanical coupler upport the means and in current location being life vertical lap splice be the mat slab and the type bottom of the wall.	(500 series coupler) methods of ng considered is the tween the dowel ypical wall vertical			clear cover to		coupler, howeve Il not be less tha			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

430 of 1053

Time: Job:

Answered By: Adamson Associates, Inc George Metzger

Accept Suggestion:

ANSWER:

ARUP Response:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u> Pro
clearance as the d that of the actual r 2. Also verify that typical elevation si	I coupler can infring diameter of the coup reinforcing. the couplers can be imilar to that of the side face wall curtai	oler is greater then e installed at one other couplers						
T-0404.1	BGP - Replace	ement of Lap Splice with N	Mechanical Couplers	Closed	02/22/2013	03/04/2013	03/27/2013	Potentially [
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction (Compan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger
Co-Author: Shimmick C	onstruction Compa	ny, Inc Ben Gordon						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Ref: S1/3201					1 Answer in	RFI T-0404 con	firmed	
Number 2 of the R	RFI T-0404 was not	answered.						
with an approved ras needed to supproceed to	cort the means and current location bei rertical lap splice be e mat slab and the toottom of the wall. Sereference the propo	(500 series coupler) methods of ng considered is the etween the dowel typical wall vertical					nstalled at one ty r face couplers.	pical
1. Answered in RF	FI T-0404							
	couplers can be inst	alled at one typical ouplers depicted on						

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Ref: Specification Section 31 00 00.3.15.C.1

Lynn Kowallis

From: Webcor Construction LP

Co-Author:

REQUEST:



Please confirm this is acceptable.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

431 of 1053 11/05/2013

Time:

10:53 AM 30100

				- Isbay ITalia							
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
Specification Section C.Percentage of Max Compact soil to not le maximum dry density 1.Under structures, b fill deeper than five fe above and compacte Does the 95 percent when fill is deeper the building slabs, founds	cimum Dry Density I ess than the following according to ASTM building slabs, found eet, shall be placed and to at least 95 pero dry density requirer an five feet and/or u	Requirements: ng percentages of M D1557: lations and steps, in lifts as defined cent dry density. ment apply only			The subgrade native undistu maximum dry						
T-0406	BSE - Micropile	W434 Relocation		Closed	02/22/2013	02/22/2013	02/27/2013	Potential			
From: Webcor Constr	ruction LP	Lynn Kowallis	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:				
Ref: Submital TG030	0-622.4					asetti does not d	object to moving				
Micropile W434 as la well. BBII proposes r provide adequate cle	noving Micropile W	434 North 5' to			micropile (W4	34) as proposed					
Please confirm this is	s acceptable.										
T-0407	BSE - Micropile	W327 Installed 2' South		Closed	02/22/2013	03/04/2013	02/27/2013	Potential	y		
From: Webcor Constr	ruction LP	Lynn Kowallis	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:				
Ref: Submittal TG030	00-622.4				Thornton Tom micropile (W3		object to the as-in	stalled			
Micropile W327 was BBII proposes leavin attached sketch.					ппоторпе (۷۷3	zi j iocalion.					



to move the pile 12' North. BBII understands that this

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

432 of 1053

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost ed <u>Impact</u> F	Procee
-0408	BGP - Open Sti	rrup with a Cap for Fram	e Beam Sections	Closed	02/25/2013	03/07/2013	03/01/2013	Potential	ly 🗌
From: Webcor (Construction LP	Lynn Kowallis	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST: Ref: 5/S1-3600)		SUGGESTION:				gestion:		
Type SI throug stirrup. Please open stirrup wit degree hook or	et S1-3600 depicts bear h S5 all of which graphic confirm that it is accepte th a cap. The cap would n one side and 90 degre an alternating fashion.	cally depict a closed able to utilize an maintain a 135			states This D	etail For Refere	ence		
-0409	BSE - Micropile	e W226 Relocation (Due t	o Overhead Obstruction)	Closed	02/27/2013	03/09/2013	03/04/2013	Potential	ly
From: Webcor (Construction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Balfour B	Beatty Infrastructure, Inc.	. Brandon Miller							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	cification: 31 63 33 g: Attached sketch				provided W22		oposed is accept nifted 2' north (ot e together).		
overhead clear Micropile W226	6 as laid out does not ha rance to be installed. BB 6 North 12' to provide ad location position for Mice 4' North.	II proposes moving dequate clearance.			Shifting 4' Eas	st and 4' North (5.66' Northeast) ocation would co		
	nds relocating the micro	pile North in order							
Please confirm	this is acceptable.								
-0409.1	BSE - Micropile	e W226 Relocation (Due t	o Overhead Obstruction)	Closed	03/04/2013	03/14/2013	03/05/2013	Potential	lv 🖂
From: Webcor (_	Robert Kjome	To: Turner Construction Compa				ociates, Inc Geo		,
Co-Author:			·	,	•		,	0	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification R	deference: 31 63 33 Prawings: Attached BBII	sketch			Thornton Ton	nasetti does no	t object to reloca (10' North and 1'	0	
	6 as laid out does not ha								



intermediate ring, 3" horizontal weld must have a removable backer bar. Is it acceptable to have a double

beveled groove weld replace the single bevel groove with

a back bar? Eliminating the backer bar in this weld and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

2. However, the contractor's proposal to pre-

assemble the collar ring and the cap plate in the shop

is not acceptable. The contract documents indicate

433 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					·			
insta and	tion would be too close to pile W227 which is alled. BBII now proposes to move the pile 10' 1' West. This does not appear to conflict with hermal piping.	North						
Plea	se confirm this is acceptable.							
-0410	BGP - Lower Concourse	Top of Slab between Gridlines 3-9	Closed	02/27/2013	03/09/2013	03/05/2013	Potentiall	ly 🗌
From	n: Webcor Construction LP Rob	ert Kjome To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author	r:							
REQUEST: Reference Drawings: S1-3201 (BSE Drawings)		ween r ASI 100		Drawings. No				
cond	course top of slab to be 5'-5" between gridling Gridlines 5-8 shows top of slab at 5'-10".							
	se verify the elevation of the lower concourse between gridlines 3-9.	e top of						
-0411	BGP - Welding for Pentra	ntion Sleeves	Closed	02/28/2013	03/10/2013	03/08/2013	Potentiall	ly 🗌
From	n: Webcor Construction LP Rob	ert Kjome To: Turner Construction Com	npan Gary Krutsch	Answered By	:Webcor Constr	uction LP Robe	rt Kjome	
Co-Author	r: Shimmick Construction Company, Inc Chri	s Williams						
REQ	QUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe	erence Specification: 05 50 10 erence Submittal No: TG0600-036			contractor ma to replace sing		norizontal weld, ble beveled groov with back bar, as		
Per t	the Submittal TG0600-036 comments, the			proposed.				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 434 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

	Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Procee
		pieces to be secondly the contracte and cap into a the collar/cap will be insufficial ready be pla only a small be making it improcllar/cap ont this construct sequence and be commented.	sequentially field irst field welded cap plate is field or's proposal to one unit makes it assembly onto cient clearance faced and the maplockout surroun ossible to weld a to the sleeve from the sleeve from sequence is dimeans and mead by W/O, it is to	-welded into place to the sleeve, and welded to the colore-assemble the timpossible to fie the sleeve becausor welding (mat ret concrete poured ding each sleeve, any pre-assemble in the outside). Wultimately a consistency of the control of the opinion of the	e. The Ithen Illar ring. collar Ild weld se there ebar will I with d thile truction should	
netration Sleeve Anchors	Closed	02/28/2013	03/10/2013	03/05/2013	Potential	lly
To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
SUGGESTION:		holes to fit 3/8	eptable to have 4 3" wedge anchor	4 equally spaced s s for anchorage c	of the	
	·	enetration Sleeve Anchors Closed To: Turner Construction Compan Gary Krutsch	that the collar pieces to be sollar ring is for secondly the The contract and cap into a the collar/cap will be insufficial ready be pile only a small be only a small be making it improclar/cap ont this construct sequence and be commented team that cortice the collar/cap on the collar/cap ont this construct sequence and be commented to the collar/cap on the collar/cap ont this construct sequence and be commented to the collar	that the collar ring and cap pla pieces to be sequentially field collar ring is first field welded secondly the cap plate is field. The contractor's proposal to and cap into one unit makes is the collar/cap assembly onto will be insufficient clearance for already be placed and the main only a small blockout surround making it impossible to weld a collar/cap onto the sleeve from this construction sequence is sequence and means and me be commented by W/O, it is the team that contractor's proposition. To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associated Suggestions of the sleep suggestions. ANSWER: Accept Suggestions of the sleep suggestions of the sleep suggestions. Answered By:Adamson Associated suggestions of the sleep suggestions of the sleep suggestions. Answered By:Adamson Associated suggestions of the sleep suggestions of the slee	that the collar ring and cap plate are two separa pieces to be sequentially field-welded into place collar ring is first field welded to the seeve, and secondly the cap plate is field welded to the cool The contractor's proposal to pre-assemble the and cap into one unit makes it impossible to fie the collar/cap assembly onto the sleeve because will be insufficient clearance for welding (mat realready be placed and the mat concrete pource only a small blockout surrounding each sleeve, making it impossible to weld any pre-assemble collar/cap onto the sleeve from the outside). We this construction sequence is ultimately a consistence and means and methods issue that she commented by W/O, it is the opinion of the team that contractor's proposal is not feasible. **To: Turner Construction Compan Gary Krutsch** **Answered By:Adamson Associates, Inc Georgian Suggestion:** Yes. It is acceptable to have 4 equally spaced holes to fit 3/8" wedge anchors for anchorage of the collar ring and cap plate are two separate pieces to be sequentially field-welded into place. **Answered** **Answered** **Answered** **Accept Suggestion:** Yes. It is acceptable to have 4 equally spaced holes to fit 3/8" wedge anchors for anchorage of the collar ring and cap plate are two separates. **To: Turner Construction Compan Gary Krutsch** **Answered** **Answered** **Answered** **Answered** **Accept Suggestion:** Yes. It is acceptable to have 4 equally spaced holes to fit 3/8" wedge anchors for anchorage of the collaboration of the ring and ring	that the collar ring and cap plate are two separate pieces to be sequentially field-welded into place. The collar ring is first field welded to the sleeve, and then secondly the cap plate is field welded to the collar ring. The contractor's proposal to pre-assemble the collar and cap into one unit makes it impossible to field weld the collar/cap assembly onto the sleeve because there will be insufficient clearance for welding (mat rebar will already be placed and the mat concrete poured with only a small blockout surrounding each sleeve, making it impossible to weld any pre-assembled collar/cap onto the sleeve from the outside). While this construction sequence and means and methods issue that should be commented by W/O, it is the opinion of the design team that contractor's proposal is not feasible. To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George Metzger

T-0413 BGP - Bulkhead Formwork Material

Closed

03/10/2013

02/28/2013

03/13/2013

Potentially

From: Webcor Construction LP

Robert Kjome

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Co-Author:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

435 of 1053

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ce Specification: 031000 ce Drawings: Sketches attach	ned			appears to be	acceptable to	posed Stayform puse. Please confir	m that it	
various Referen forms as within 1.	planning to use Stayform for bulkheads and blockouts in commerce attached sketches of the North and example. Stayform mat 5" of all exposed concrete suble to use Stayform?	oncrete structure. Nat slab bulkhead erial shall be kept		tion and performa Please submit for re to submittal					
-0414	BGP - Cast Iro	on Supports		Closed	02/28/2013	03/10/2013	03/11/2013	Potential	ly 🗌
From: W	ebcor Construction LP	Lynn Kowallis	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: 7/P	1-6001				The attached comments:	_	able with the follo	wing	
Contrac imension that deta pipe sup	eference attached drawing at Drawing P1-600I. Detail 7 do so of the pipe support assem iil 7 is purely conceptual and port assemblies ("goal posts attached drawings.	pes not specify any bly. SCCI interprets proposes that the			acceptable. C TJPA Represe will occur to en method will no	contractor shall entative describusure the attach to penetrate the	ction slab is not submit informatio ing how the instal nment system and protection slab a	lation d work	
Is this a	cceptable?				impact the wa	terproofing syst	em.		
	note that the RFS (request for product is forthcoming.	r substitution) for			Provide plates support as ne		supports and add	ditional	
-0414.1	BGP - Cast Iro	on Support		Closed	04/09/2013	04/19/2013	04/13/2013	Potential	ly 🗌
From: W	ebcor Construction LP	Lynn Kowallis	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: St	immick Construction Compa	ny, Inc Ben Gordon							
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: RF 7/P1-60					However the p	able for 4" thick rotection slab s	protection slab. slopes and from 4 less at lower poi		
	esponse to RFI T-0414 (SCC e following:	CI RFI #55), the EOR			this case, the	drilled hole is g	etting too close to	the	



slab with a slope. SCCI plans to pour the protection slab level and keep the protection slab consistently 4" thick.

The Designer suggests using a pipe support with a grouted plate for scenarios where the drilled holes may get too close to the membrane. It would appear that grouted plate would still require some type of embedded anchor. By adding the grout, the manufacturer's embedment depth

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 436 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Contractor Represents ensure the penetrate t system." SCCI prop The pipe s Protection KWIK Bolt Holes will t minimum r prevent ov damaging roto-hamm informatior be set prio drilling ope	ng through the protection slative describing how the install attachment system and with the protection slab and improved the upper the upper the waterproof in general per sequipped with depth-grations. In the please provide comproner of the please	stallation will occur to ork method will not act the waterproofing chored to the 1/2" diameter Hilti pansion anchors. For specified /8". In order to otection Slab and ne, SCCI will use gauges (see attached he depth-gauges will priodically during			Contractor to		ed. col to verify the d s and submit for		
T-0414.2	BGP - Cast Iro	on Pipe Support		Closed	05/02/2013	05/15/2013	05/13/2013	Potential	ly 🗌
From: Web	cor Construction LP	Ian Corcorran	To: Turner Construction Cor	npan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shim	nmick Construction Compa	ny, Inc Andy Khuu							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	: RFI T-0414 and T-0414.1				The proposed	attachment me	thod is acceptabl	e.	
that the pro	sponse to RFI T-0414.1, the otection slab will be sloped less. SCCI does not plan to	with a 4" maximum pour the protection							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

437 of 1053 11/05/2013

Time:

Pneumatic Testing to 80psi is acceptable.

10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
An alternati would be th attached Ro 1" of ember using a Dej shoulder to	nor is shortened and the tell be reduced. live method to anchoring the use of 1/2" short drop-ined Head Multi-Set II information that into concrete. The loth Charge drill bit which is prevent over drilling. his is acceptable.	ne pipe supports n anchors (see nation) which requires holes would be drilled							
T-0415	BGP - Wall ar	nd Coupler Modifications in	Zone 1 Train Box	Closed	02/28/2013	03/10/2013	03/13/2013	Potential	lly
From: Web	·			Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	ge Metzger	
Co-Author:									
REQUEST	•		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
attached SKA-2438 rooms at th gridelines 1 1. Please c	Reference: Field Order T-00011 and SKA-2438 R2				Pump Room, Storage Room substantially of 2. Please find 2607, showing revised wall la	Emergency Electors shown on SKA correct. attached SKAsorthe plan dimensions of this are	- 2604, 2605, 26 sions for the new ea.	Fuel 06 and v and	
T-0416 From: Webo	BGP - Geothe	ermal Loop Pneumatic Test	ting Pressure To: Turner Construction C	Closed	03/01/2013 Answered By	03/11/2013 Adamson Asso	03/06/2013 ociates, Inc Geo	Potential	lly
Co-Author:				-				-	
REQUEST	:		SUGGESTION:		ANSWER:	Accept Suga	gestion:		

Per specification 23 57 34, 3.2, C, all individual loops shall be pressure tested at 100 PSI for 30 minutes before

Per specification 23 57 34, 3.2, C



From: Webcor Construction LP

Co-Author:

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Adamson Associates, Inc George Metzger

438 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

301111 121113112			30100 - 1	ransbay Trans	n Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
installation. The mois of the loop can comp in the DFOW meetin testing of the pipe at the loops and heade be hydrostatically tes documentation from Testing and confirm	romise the fusion w g, S3H is recommer 80 PSI. Upon comp r piping, the completed as specified. Pla Manufacturer regard	eld. As discussed anding pneumatic slete installation of te sub group will ease see attached sing Pneumatic							
T-0417	BSE - Micropile \	N434.5 Addition per Conti	ract Drawings	Closed	03/04/2013	03/14/2013	03/12/2013	Potential	ly
From: Webcor Const	ruction LP	Lynn Kowallis	To: Turner Construction	n Compan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Ref: S1-2031 and Su	ıbmittal TG0300-622	2.4			_	4.5 is required p			
Micropile W434.5 wa drawing S1-2031. Ho approved submittal T	wever, W434.5 was				·	·			
Please confirm Micro	ppile W434.5 is requ	ired.							
T-0418	BGP - Revit CAD	Files Confirmation		Closed	03/05/2013	03/15/2013	03/06/2013	Potential	ly 🗌
From: Webcor Const	ruction LP	Robert Kjome	To: Turner Construction	n Compan Gary Krutsch	Answered By	:Turner Constru	ction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	nestion:		
Reference Documen	t: Email attached.				Per Ed Sum, t		voided with the		
Pursuant to the direct confirm the CAD filest Revit model are cons	which are to be ext	tracted from the				ion that the Con Section 00 08 07	tractor review Co	ontract	
T-0419	BGP - Foundatio	n Walls Formwork Ties		Closed	03/07/2013	03/17/2013	03/12/2013	Potential	ly

To: Turner Construction Compan Gary Krutsch



Concrete inserts intended for use with wall formwork design depict Specification Section 03 1 0 00 2.2 B.8.A

Per ACI Formwork Manual: "A concrete form tie is a tensile unit adapted to holding concrete form secure

"Anchorages".

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

439 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Sh	nimmick Construction Compa	ny, Inc Chris Williams							
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ce Specification: 03 10 00 2.2 ce Drawings: See attached sk				foundation wa		e/insert for the per specification 0	3 10 00	
03 10 00	reference attachments and Sp 0 2.2 B.7.e: "when removed, t ger than one inch diameter in	ies shall not leave			B.5 and B.7.a.				
utilize co concrete concepto need to (safe wo	coundation walls formwork SC concrete inserts that will be use a lifts. See attached sketches ual/preliminary formwork desibe rated for up to approximate the property of this have 1.5" to 2" outside diameters.	ed in subsequent for gn. Concrete inserts ely 35 kips SWL s, the concrete ties							
walls SC referenc ties. For	formwork involved with the 3ft CCI requests variance from the ed above and be able to use all other interior walls includi Il comply with the Specification	e specifications these bigger form ng the shear walls,							
Is this ac	cceptable?								
-0419.1	BGP - Founda	tion Walls Formwork Anchors		Closed	03/14/2013	03/28/2013	03/26/2013	Potential	lly 🗌
From: W	ebcor Construction LP	Ian Corcorran	To: Turner Construction (Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Sh	nimmick Construction Compa	ny, Inc Ben Gordon							
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Referen	ce RFI: T-0419 ce Specification: 03 10 00-2.2 rk Manual	2 B.8.A, ACI			It will be accep		ese contractor-pro	oposed	
	as been a misinterpretation of e used to classify the reference				Form anchors concrete wall.	are not to pene	etrate full depth of	the	



Please advise how to handles these bodies/pockets of air.

From: Webcor Construction LP

BGP- Geothermal CDSM Grout

Lynn Kowallis

T-0421

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

440 of 1053

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
or without provision distance apart, ar metal to a specific surface." (ACI Fo "Form anchors ar previously placed normally embedd Formwork Manua To reiterate, SCC inserts/anchors proviously forms in place leave 2" hole that	pressure of unhard ons for spacing the old with or without pred ed distance back from rmwork Manual 4-3 e devices used to so concrete of adequated in concrete durin 1 4-36) I intends to utilize der er attachments to see. Use of concrete	rovision for removal of om the concrete (5) secure formwork to ate strength; they are ng placement." (ACI					impact		
removed. Is this acceptable	?								
T-0420	BGP -Geothe	rmal Loop Air Pockets		Closed	03/06/2013	03/17/2013	03/11/2013	Potential	llv 🗀
From: Webcor Co		Lynn Kowallis	To: Turner Construction Co				ociates, Inc Geor		,
Co-Author:		•			•			gg-:	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref: M-0006						onse: Air elimin	ation devices are		
Per contract, the geothermal lines elevator and sump pits. This will delevation across the a geothermal create high points in the loop for beget traped. These air bodies or postagnant water and potentially constability. Typically air elimination sat high points to remove these boflush/blowout.		se a difference in pe loop. This will ies of air to gather or ets can coalesce in romise the hydraulic tems are implimented					nual air vents will a future package		

To: Turner Construction Compan Gary Krutsch

Closed

03/06/2013

03/17/2013

Answered By: Adamson Associates, Inc George Metzger

03/13/2013

Potentially



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

441 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Submittal	l pkg TG0601-010				This is accept	table.			
grout, S3H wo acceptable as excavation. Th	al procurement issues ould like to confirm that a backfill material for t nis Supergrout is a high d for geothermal syster	the attached grout is ne CDSM wall thermal conductivity							
Please confirm submitted.	n it is acceptable as an	alternate to the grout							
0422	BSE - Microp	les W328, W344, W383 Re	location (Due to Overhead Obstr	uction) Closed	03/06/2013	03/17/2013	03/11/2013	Potential	ly 🗌
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Con	mpan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Submittal	I TG0300-622.4						t object to moving W383 as propos		
have adequate proposes mov Micropile W34 provide adequ	328, W344, and W383 are overhead clearance to ring Micropile W328 No 14 North 3', and Micropilate clearance. All three outh of J-Line and the Gached sketch.	o be installed. BBII rth 7.7' & East 3.7', le W383 North 5' to e of these Micropiles							
Please confirm	n these relocations are	acceptable.							
0423	BSE -Subgrad	de pit dimensions per com	ments to TG0300-340.1	Closed	03/07/2013	03/17/2013	03/20/2013	Potential	lv 🗆
	Construction LP	Robert Kjome	To: Turner Construction Con	mnan Gary Krutsch	Answered By		ociates, Inc Geo		,
o-Author:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tarrior Conduction Con	inpair Gary radicorr		,-, (dai 110011) (00	ociatos, mo oco	go monego:	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
2817 Reference Sp	awings: S1-2024,S1-20 ecificaiton: 31 00 00 bmittal: TG0300-340.1	27, 7/S1-3010, A1-			dimension, er	that BBII shall u	ise the revised 20 equally to the nort		
							he GL35/C pit in 40.1 are not new		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 442 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

The response to Mud Slab Rebar Shop Drawings Submittal TG0300-340.1/TA1020-32001A06.1 provided new dimensions for depressions in the trainbox subgrade. Per 00 07 00 Part 6.02.A, BBII would like to clarify which dimensions are to be used for construction.

- 1. Sheet MS-4 of submittal shows subgrade depression between Grid lines 18 & 19 between Gridlines B & C having dimension of 20 '-0' x 40'-4". This is consistent with the dimensions provided on sheet S1-2024 Revision 2 dated 11/27/2013. The review comment by TT revises the 20'-0" dimension to 20'-3". Please confirm which dimension is to be used.
- 2. Sheet MS-7 of submittal shows subgrade depression at Gridline 35 between Gridlines B & C as having dimensions of 22'-1 3/4" x 18'-6 3/4". This geometry is base on the size of the pit shown on A1-2817 Revision 1 dated 11/27/2012 and 7/S1-3010 Revision 0 dated 08/30/2012. The Submittal response comments provided show a new overall dimension of 19'-9" and a specific offset to Gridline 35. Please confirm which dimensions are to be used.
- 3. Sheet MS-7 of submittal shows subgrade depression between Gridlines 34 & 35 at Gridline E. TT comment calls out 3'-0" from eastern limit of depression to Gridline 35. This dimension was not provided on sheet S1-2027 Revision 2 dated 11/27/2012. Please confirm this dimension is to be used.
- 4. BBII understands that dimensions provided on this submittal are to bottom of Mat Slab concrete, and that each dimension should be increased to account for thickness of protection slab and waterproofing. Please confirm that an additional 0'-7" is the correct dimension for this adjustment.

dimensions. Rather, they are the same dimensions as communicated on A1-2817 Revision 1 dated 11/27/2012 and 7/S1-3010 Revision 0 dated 08/30/2012. The sloping regions of the bottom surface of the thickened mat shall slope at a 1 to 1 slope, and remain 5'-0" MIN from the interior pit boundary as noted on 7/S1-3010. Thus, with these constraints the bottom of mat thickening dimension will be as marked up in the returned submittal (16'-9" from GL 35 to the western limit of the GL35/C depression). The 3'-0" dimension is the dimension from GL 35 to where the 1 to 1 slope turns vertical at the expansion joint/edge of mat. Returned submittal and contract documents do not conflict.

- 3) Confirmed that BBII shall use the 3'-0" dimension to GL 35 as noted in returned submittal TG0300-340.1 for the eastern limit of the GL 34-35/E depression.
- 4) The perpendicular dimension from the underside of the mat slab to the top of the mud slab is 4 1/2". This is 4" for the protection slab thickness, plus a 1/2" for the waterproofing zone.

Robert Kiome

Closed

03/08/2013 03

03/18/2013 03/1

03/11/2013

Potentially

Co-Author: Shimmick Construction Company, Inc Chris Williams

From: Webcor Construction LP

REQUEST:

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Ac

Accept Suggestion:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

443 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

Reference Drawings: A1-8711 Reference Photo: Attached

Per plan sheet A1-8711, Detail 3 & 6, the dewatering well and monitoring instrument pipes are plumb coming out of the mud slab. Additionally, these details do not show couplers or varying diameters on the dewatering wells or monitoring instruments. Currently almost all of dewatering wells have varying diameters with couplers and are almost all out of plumb. The monitoring instruments also seem to be out of plumb. To avoid the plumbness and varying dewatering well pipe diameter issues, is it acceptable to cut the dewatering well pvc pipe at or close to the mud slab elevation to avoid conflict with the dewatering sleeves? How should SCCI handle the sleeves for the monitoring instruments that are out of plumb? Please advise.

No. It is not acceptable to cut the dewatering pvc pipe at or close to the mud slab elevation. The cut off must be well above the elevation of the waterproofing spiral wrap and ring plate.

The varying diameters and plumbness of each of the penetrating devices / pipes will require field measurement and shop drawings prepared showing adaptation of the sleeve detail to each unique situation.

T-0425 **BGP** -Geothermal Trench Methods

From: Webcor Construction LP

Lynn Kowallis

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Co-Author:

REQUEST:

Reference Specification: 31 23 34 3.3 F

Per Coordination Meeting March 6, 2013, S3H Inc. is looking to install the geothermal loop at a depth of 2' below the Mat slab. After the loop installation, the trenches will be back filled with 8" of loose native soil to protect the pipe. This 8" lift will be watered to settle the loose soil around the pipe. Upon watering and settling of the loose 8" lift, the remainder of the trench will be backfilled with native soil and compacted to the relative density of the surrounding soil per specification.

Please confirm.

Closed

03/08/2013

03/18/2013

03/19/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: **Accept Suggestion:**

Item 1. F+K response: Depth of trench for geothermal piping shall be per mechanical drawings and specifications.

Item 2. Arup response: 8" of loose satisfactory soil material is per specification 23 57 34 paragraph 3.1.D.

Item 3. Arup response: The remaining backfill shall be compacted to 95% as required in the specifications.

03/21/2013



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

444 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
From: Webcor (Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick	Construction Compan	y, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
attached) at the pits. The welde	ting to use welded wire sloped surfaces of the d wire mesh will inhibit tom of the pits during p	sump and elevator concrete settlement			and methods presponsibility to Contractor eles slab, he should to the membra inappropriate wire ends facing during the instead mesh and simulate to the membra. The membrane the Contractor as it may affect submit details reinforcing to the proposal of the contractor of the membrane the Contractor as it may affect submit details reinforcing to the contractor of the proposal of the contractor of the contrac	proposal that fato work out issued to use reinfed bear responsione should it occhairs as well are gown, traffic allation, use of illar activities the ane assembly a e manufacturer is intention to use the warranty, and shop draw the TJPA Reprefor this should be	otection slab is a alls under the Con es related to this orcing in the prote bility for ensuing cur. This include a unrolling mesh over the membra hooks to pull up that could promote and subsequent lesse the reinforcing. For record purposing for the protect seentative (Architiche outlined in the meeting on Man	tractor's If the ection damage s use of with the each damage aking. ed of g insofar oses, tion slab ect).	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

445 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
T-0427	BSE - Back of	CDSM wall allowable fric	tion value.	Closed	03/12/2013	03/22/2013	Answered Image Answered Image Associates, Inc George Mean Associates, Inc George Mean Associates, Inc George Mean Buggestion: Buggestion: Could ance on the Could ance on the	Potential	ly 🗌	
From: Webcor Cons	struction LP	Lynn Kowallis	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author:										
REQUEST: WOJV is preparing Zone-4 walers. Ple wall allowable friction	ase provide the va	and reinforce the slue of back of CDSM	SUGGESTION:		ANSWER: Accept Suggestion: ARUP Response: The available friction can be calculated using the					
					stress. Fill = 0 0.43; Lower B 0.40; Old Bay	ay Mud = 0.29; Clay = 0.29. Gu the soil units is	0.29; Marine Sa Lower Marine Sa uidance on the	nds =		
						ack of the CDSN				
T-0428	BGP - Geother	rmal Manifold Valves		Closed	03/11/2013	03/25/2013	03/22/2013	Potential	ly	
From: Webcor Cons	struction LP	Ian Corcorran	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author: Shimmick Co	nstruction Compar	ny, Inc Chris Williams								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Specification	ation: 23 57 34 2.1	.В								
In addition to the ke geothermal manifol Nibco valves (speci specification 23 57 procurement issues All manifolds will be confirm this is acce	d, S3H is requestir fication attached) a 34 2.1.B. There ar s with the submitted installed with simi	ng to also install as allowed under e currently d Keystone valves.			proposed valv product data s		er specifications t	or		
T-0429	BGP - Contrac	et Limit Lines		Closed	03/11/2013	03/25/2013	03/22/2013	Potential	ly	
From: Webcor Cons	struction LP	Ian Corcorran	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	_	
Co-Author: Shimmick Co	nstruction Compar	ny, Inc Ben Gordon								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Drawing Contract Drawing S elevation of the known	heet S1-3206 Sec				The bold scope delineation line on Section 4/S1-3206 shall be at the top of +7.0' slab and the associated CJ. The only exception to this delineation would be at the					



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 446 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
contract T which doe section or location o	Within this elevation the bo G0600 is shown well above as not align with Note 1 and a sheet S1-3201. Please cla f the contract package TG0 3206 Section 4.	the top wall CJ the typical wall rify the proper			foundation wall above the 1/S1-2251 for this area				
0430	BGP - Trainbo	ox Shear Wall STD Hook		Closed	03/11/2013	03/22/2013	03/20/2013	Potential	lly 🗌
From: Wel	bcor Construction LP	Ian Corcorran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author: Shir	mmick Construction Compa	ny, Inc Andy Khuu							
REQUES'	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	e Drawings: S1-3260		0000101111		_		nent is required o	nly at	
between t lower con- hooks are concourse is required standard I	f S1-3260 depicts standard he horizontal ties in the she course; however, it is not cle required in the shearwall be. Please confirm if standard in between the center she hooks are required, please phe standard hooks in between	arwall above the ear if the standard elow the lower d hook reinforcement ar wall ties. If provide detail for the			below the lower ties. For the contractions	er concourse at enter location,	d therefore, not re the center shean the horizontal bar w the lower cond	wall s are	
0431	BGP - Knocko	out Wall, Top of Wall T-Head		Closed	03/12/2013	03/26/2013	03/22/2013	Potential	lly \square
From: Wel	bcor Construction LP	Ian Corcorran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author: Shir	mmick Construction Compa	ny, Inc Ben Gordon	·	·				0	
REQUES'	Т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e Drawing: S1-3206 e Specification: 03 20 00				Confirmed tha	t the T-head is	not required at the knock-out wall		
reinforcing Please co	et S1-3206 Section 4 depict g at the top of wall without a infirm that a T-headed bar is vertical bars throughout the	T-headed bar. s not required at the							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

447 of 1053

Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
·-0432	BGP - Shear V	Vall Layout		Closed	03/12/2013	03/26/2013	03/19/2013	Potential	
From: Webcor (Ian Corcorran	To: Turner Construction Comp	oan Gary Krutsch		y:Adamson Asso			,
Co-Author: Shimmick	k Construction Compa	ny, Inc Ben Gordon	·	·			·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	nestion:		
	wings: S1-2250, S1-20	30				most shearwall le		ed by	
details (angle = (30'-5 7 /8") per conform with th	nost shear wall when la : 38.4 degrees from GL r contract drawing sheat the dimensions provided on 1. Please confirm who we to proceed.	LH) and dimensions et S1-2030 do not d on contract sheet			the edge of slab dimension on S1-2250. This wall does deviate from the typical length, however, note that a shearwall length is defined starting from the centerline of wall intersecting with the face of foundation wall and not as the RFI sketch has interpreted.				
-0433	BGP - Column	ns Within the Shear Wall		Closed	03/12/2013	03/22/2013	03/21/2013	Potential	ly 🗌
From: Webcor (Construction LP	Robert Kjome	To: Turner Construction Comp	an Gary Krutsch	Answered By	y: Adamson Asso	ciates, Inc Geor	rge Metzger	
Co-Author: Shimmick	k Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
REQUEST: Reference Specification: 03 20 00 Reference Drawing: S1-2250, S1-3306 The two columns C19 and column C38 depicted on contract drawings SI-2250, Section 1 all appear to be					in plan where geometry at t side is 24" aw	C19 & C38 colur the 3 sides matched edge of openional party. Points and party.	ch the shear wall ng below and the allel to the end o	l e 4th of wall at	
located adjacer graphically repr referencing con columns are gra square and not	nt to the opening and presented as diamond streact drawing sheet Staphically and dimensic diamond shaped. Pleases columns matches	per the plan view are chaped. When I-3306 these chally represented as ase confirm the			shall apply to	 Reinforcemer this shape. 	it a detailing of a	,1-3300	
-0434	BSE - Micropi	le W603 Installed 1' South (I	Below ground obstruction)	Closed	03/13/2013	03/23/2013	03/15/2013	Potential	ly
From: Webcor (Construction LP	Lynn Kowallis	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref:Submittal T	TG0300-622.4					nasetti does not o V603 a distance			
•	B was relocated 1' Souting grout from the adjan.	S .			in this RFI.	voos a distance	T to the South a	3 3110WI1	
Please confirm	this is accentable								



of column after column erected into place.

4. Unforeseen Conflicts. Project conflicts that are identified

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeditobayasin soint ventare

Page: Date:

required for necessary adjustments at the mat and that the edge mat bars could be slid inward as

required. While we are in support of facilitating

448 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Proce
Γ-0435	BGP - Flame C	Cutting of Reinforcement		Closed	03/11/2013	03/25/2013	03/22/2013	Potentially
From: Web	cor Construction LP	Ian Corcorran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger
Co-Author: Shim	mick Construction Compar	ny, Inc Andy Khuu						
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference	Specification: 03 20 00-3.1	.6.A			Heating and fl approved by E	ame-cutting of b	pars is prohibited	unless
heat or flan subpart to s unclear if th cutting of b Please con other than t	ecification section 03 20 00- ne cut bars;" however, this section 03 20 00-3.1.6. "Be ne statement regarding to hars exclusively applies to b firm that heating and flame that of bending of bars is po-	statement is a and bars cold." It is neating and flame- nending of bars. necutting for purposes nermitted. tion from CRSI which						
states that on	flame-cutting of bars have	no adverse effects						
reinforceme	ent.							
Γ-0435.1	BGP - Flame C	Cutting Follow-Up to RFI 435		Closed	05/02/2013	05/10/2013	05/14/2013	Potentially
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger
Co-Author: Shim	mick Construction Compar	ny, Inc Andy Khuu						
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:	
The respon flame cutting by the EOR with the engapplications is a list of the	RFI T-0435, 03 20 00-3.1. se to RFI T-0435 indicated by a property of reinforcing is prohibited and per further discussion gineer it was requested that is be submitted for further rehose applications:	I that heating and add unless approved a about this matter at specific eview. The following			discussed the penetration op around mat op clear cover the detailed in cor shop drawings not applicable the ends of the	intention for the penings was for penings or pit ed at will be spliced at a will be spliced a	V Assist Meeting e need to flame-c trimming straight lges to achieve p I with an "L" bar as & e reflected in the e of cutters or sa will be acceptable r Concourse slab	out at the bars proper as he rebar aws are e to trim
cut opening penetration	ions in Slabs, Walls or Dec g into reinforcing based on Bar. Torch used to trim or i	final asbuilt layout of			cutting to achi 2 & 3. Handlii	eve detail intent	on aids is means	
away bar d 3. Column remove rac	ue to conflict or other proje Rack/Crush Bar Removal. ck and crush bars from colu rtion and additional open s	ct need. Torch used to unns to allow for			4. See respon allowed. For tapplication, it	se to item 1 reg he CDSM shori was discussed a	arding what will b ng wall pile confli at the 05/09/2013 ing would not be	ict 3 W/OJV



Riser for the geothermal loops is in conflict with the soldier pile in the field. Please confirm that the riser can be

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 449 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Note that detail 4A/S1-7630 specifies the dimension of 1/2* from top of HSS12x6 to 5/8* plate and that the 5/8* plate is shaped with a top edge at a 1:1 slope. This slope starts at the side of the HSS. With the welded studs centered on the HSS and spaced at 1'-0" on center, that leave 3 1/2" from center of welded stud to edge of 1/2" embedded plate. T-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed 5/8* plate is shaped with a top edge at a 1:1 slope. This slope starts at the side of the HSS. With the welded stud centered on the HSS and spaced at 1'-0" on center, that leave 3 1/2" from center of welded stud to edge of 1/2" embedded plate. T-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed 3/13/2013 03/23/2013 03/25/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).	Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
of reinforcing steel to correct condition. Example CDSM pile conflict. Please confirm the use of a torch/flame is allowable for the applications listed above. Please confirm the use of a torch/flame is allowable for the applications listed above. Please confirm the use of a torch/flame is allowable for the applications listed above. A. Flame-cutting shall not damage the work of other trades, such as but not limited to: Waterproofing, formwork, etc. B. Flame-utting shall not compromise design intent of reinforcement detailing. T-0436 BGP - Elevator Rail Support Width Closed From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Reference Drawing: Section A of 4/S1-7630 Please confirm that the dimension from the left end of the 1/2" embedded plate to the center of the welded headed stud is 3". T-0437 BGP - Geothermal Riser Conflict with Soldier Pile From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: T-0437 BGP - Geothermal Riser Conflict with Soldier Pile From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch To: Turner Construction Compan Gary										
T-0436 BGP - Elevator Rail Support Width Closed 03/13/2013 03/23/2013 03/21/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch REQUEST: SUGGESTION: Answered By: Adamson Associates, Inc George Metzger Co-Author: 1-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: Answered By: Adamson Associates, Inc George Metzger Co-Author: Answered By: Adamson As	of reinforcing pile conflict. Please confirm	steel to correct conditions The use of a torch/flat	on. Example CDSM			too vague to other repetiti contractor fir submit for re General com A. Flame-c	allow a blanket ave and already kinds flame-cutting view with detaile ments:	approval. If there a nown conditions the necessary, pleased d description.	are at the	
From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Note that detail 4A/S1-7630 specifies the dimension of 1/2* from top of HSS12x6 to 5/8* plate and that the 5/8* plate is shaped with a top edge at a 1:1 slope. This slope starts at the side of the HSS. With the welded studs centered on the HSS and spaced at 1'-0" on center, that leave 3 1/2" from center of welded stud to edge of 1/2* embedded plate. T-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed 3/13/2013 03/23/2013 03/25/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).						formwork, etc B. Flame-c	c. cutting shall not c			
Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Reference Drawing: Section A of 4/S1-7630 Please confirm that the dimension from the left end of the 1/2" embedded plate to the center of the welded headed stud is 3". T-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed Stud to edge of 1/2" embedded plate. To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: ANSWER: Accept Suggestion: In slope starts at the side of the HSS. With the welded studs centered on the HSS and spaced at 1-0" or on center, that leave 3 1/2" from center of welded stud to edge of 1/2" embedded plate. T-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed O3/13/2013 03/23/2013 03/25/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).	T-0436	BGP - Elevate	or Rail Support Width		Closed	03/13/2013	03/23/2013	03/21/2013	Potential	ly 🗌
Reference Drawing: Section A of 4/S1-7630 Please confirm that the dimension from the left end of the 1/2" embedded plate to the center of the welded headed stud is 3". T-0437 BGP - Geothermal Riser Conflict with Soldier Pile From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch REQUEST: Reference Specification:23 57 34 Note that detail 4A/S1-7630 specifies the dimension of 1/2" from top of HSS12x6 to 5/8" plate and that the 5/8" plate is shaped with a top edge at a 1:1 slope. This slope starts at the side of the HSS. With the welded studs centered on the HSS. With the welded stud to edge of 1/2" embedded plate. T-0437 BGP - Geothermal Riser Conflict with Soldier Pile Closed 03/13/2013 03/23/2013 03/25/2013 Potentially Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: Reference Specification:23 57 34 The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).		Construction LP	Robert Kjome	To: Turner Construction Con	mpan Gary Krutsch	Answered B	y:Adamson Ass	ociates, Inc Georg	e Metzger	
From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).	Reference Dra Please confirm 1/2" embedde	m that the dimension fro	om the left end of the	SUGGESTION:		Note that det 1/2" from top 5/8" plate is s This slope st welded studs 0" on center,	ail 4A/S1-7630 s of HSS12x6 to shaped with a to arts at the side of centered on the that leave 3 1/2	pecifies the dimer 5/8" plate and that be edge at a 1:1 slo if the HSS. With the HSS and spaced from center of we	the pe. ne at 1'-	
Co-Author: REQUEST: Reference Specification:23 57 34 SUGGESTION: ANSWER: Accept Suggestion: The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).	T-0437	BGP - Geothe	ermal Riser Conflict with S	oldier Pile	Closed	03/13/2013	03/23/2013	03/25/2013	Potential	ly
REQUEST: Reference Specification:23 57 34 Suggestion: The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).	From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Georg	e Metzger	_
Reference Specification:23 57 34 The Geothermal riser shall be located to the East of Soldier Pile 36 (between 36 and 37).	Co-Author:									
As laid out per the approved shop drawings, the GLS/GLR	Reference Sp		0.000	SUGGESTION:	The Geother	mal riser shall be	located to the Ea	st of		



2055 and S1-2057. These" openings reference drawings S1-3004 and S1 -3008. Detail I on S1-7004 does not

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

450 of 1053 11/05/2013

Time: 10:53 AM 30100

					Date	Date	Date	Cost	_
lumber	<u>Subject</u>			Status	Created	Required	Answered	<u>Impact</u>	Procee
relocated	to the next CDSM wall panel	to the West.							
-0438	BGP - Knockou	ut Wall CJ		Closed	03/12/2013	03/26/2013	03/21/2013	Potential	ly 🗌
From: Web	bcor Construction LP	Ian Corcorran	To: Turner Construction Compan Ga	ry Krutsch	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	• Ш
Co-Author: Shir	mmick Construction Compan	y, Inc Ben Gordon	·	,			,	, 3	
REQUES'	Т:		SUGGESTION:		ANSWER:	Accept Sugg	estion:		
	e Drawing: 4/S1-3206				Contractor-pro		on of bottom CJ is	า	
details. Si independe to constru eliminatine	e Dwg. S1-3206 Section 4 - k nce knockout walls are to be ent of the rest of the structure ct the knockout walls in two l g bottom horizontal CJ of the the attached marked up dray	constructed e, SCCI intention is lifts. SCCI suggests knockout walls, as							
Is this acc	ceptable?								
-0439	BGP - Mat Slab	Elevator Opening Embeds		Closed	03/13/2013	03/23/2013	03/27/2013	Potential	ly 🗌
From: Web	bcor Construction LP	Lynn Kowallis	To: Turner Construction Compan Ga	ry Krutsch	Answered By	Adamson Asso	ciates, Inc Georg	je Metzger	
Co-Author:									
REQUES'	Т:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	rings S1-2052 through S1-200 02, 3/S1-3006, S1-3004, S1 -					ne located at gr	it that gets emberidlines 1.8-E, and		
and Embe the location E on draw	ference attached drawings of eds. Drawings S1-2052 throughs of openings in the Mat Sliving S1-2052 there is an eleving S1-2052 there is an ele	gh S1-2061 show ab. At gridlines 1.8- ator opening. Detail					-0184, where the ese embeds have	been	
2052 and length em drawing S 7004 both showing tl	ving \$1-7004 is the elevator of shows the opening having two beds at the Mat Slab. See Do 11-7602 for embed. \$1-2052 is have cut lines referencing Do the Mat Slab Pit details at this elevator openings on drawin	vo L8x4xl/2 full etail 12 on attached and detail 1 on S1- detail 3 on S1-3006 s location. There are			fully constructe and the tops o embedded and	ed as part of the f these elevator	iced in this RFI are Below Grade Pa pits and additionalled in a future pa is.	ckage, al	



TJPA's response to RFI T-0439.1 stated "Final elevator post locations shall be coordinated with elevator manufacturer." The response has a second option to use a continuous L8x4x1/2 in lieu of the 1'-2" base. Please provide the elevator post locations if an elevator manufacturer has been selected? If not, SCCI is

Webcor/Obayashi Joint Venture

Webeen obayasın semi ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

451 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

				<i>J</i>					
Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
2057. Therefore,	the openings on S1-2054, S1-2055 and S1- re, the only elevator opening that has ength embeds on the Mat Slab is located at								
Please advise if t	his is correct.								
T-0439.1	BGP - Mat Sla	ab Elevator Opening Embeds		Closed	03/29/2013	04/08/2013	04/09/2013	Potential	y
From: Webcor Co	nstruction LP	Lynn Kowallis	To: Turner Constructi	on Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick	Construction Compa	ny, Inc Jesse Dillon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST: Ref: RFI T-0439, SKS-0184 Please reference attached drawing. The response to WOJV RFI T -0439 modifies the continuous embedded assemblies to be four L8" x 4" x W' x 1 '-2" elevator post bases as depicted on Contract Drawing S 1-7600 Detail 11. The RFI response does not show the location and spacing of the embedded assemblies. Please provide locations and spacing.					elevator post. coordinated w If an elevator time for const used. In lieu a continuous may be used.	Final elevator prith elevator man provider is not a ruction, the folloof the L8x4x1/2 L8x4x1/2 angle. The HSS guided angle in the	ntered under eac cost locations sh nufacturer. Inwarded a contra wing alternate m x1'-2" embedded with welded stud erail post will be field after an ele	all be ct in tay be I angles, s at 12" welded	
T-0439.2 From: Webcor Co Co-Author: Shimmick (onstruction LP	ab Elevator Opening Embed D Ian Corcorran		Closed on Compan Gary Krutsch	05/10/2013 Answered By	05/24/2013 r:Turner Constru	05/15/2013 uction Comr Jeff	Potential l Thiel	у 🗌
REQUEST:	constitution compa	, 00000 Dillon	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. RFI T-0439.	1		CCCCLOTION.		_	wer in Construc			



future walls addressed in RFI T -0440, have been revised.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

452 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
requesting to this is accept	use continuous embeds able.	. Please advise if							
T-0440	BGP - Glass G	uardrail Embeds		Closed	03/12/2013	03/26/2013	03/20/2013	Potential	ly 🗌
From: Webco	r Construction LP	Ian Corcorran	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimm	ick Construction Compar	ny, Inc Jesse Dillon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawings: 7/S1-3410, S1-2202-2207, S1-2210, S1-2211 Please reference attached drawings of Concourse Level glass guardrail embeds and openings. Detail 7 on drawing S1-3410 is the typical PL 3/8x7 glass guardrail embeds for escalator and stair openings. The detail states that the guardrail embeds are continuous. It is unclear what the boundaries of the guardrail embeds are. SCCI has determined that no guardrail embeds are necessary at the opening locations where future CMU or concrete walls shall be constructed flush with the opening. Also, the guardrail embeds can be terminated at the escalator openings where the opening is reduced. Attached drawings SI-2202 through SI-2207, SI -2210 and S1 -2211 show the limits SCCI has determined the glass guardrail embeds shall be installed. Please advise if these locations are accurate and the only locations the guardrail embeds shall be installed.				locations of gl correctly with where the wes	ass guardrail er the exception of st side of the op	ches have interpheds at openin GL 34 south opening does not huardrail embed.	gs ening		
T-0440.1	BGP - Glass G	aurdrail Embeds		Closed	08/05/2013	08/15/2013	08/16/2013	Potential	ly 🗌
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimm	ick Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: A	ttached Drawings, RFI T	-0440					KA's-2794, 279 of the glass gua		
	nce attached drawings (\$0), and RFI T-0440 respo					Lower Concou			



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

453 of 1053 11/05/2013

30100

Date: Time:

10:53 AM

20100 Transhay Transit Contor Project

ANSWER:

JOINT	VENTURE		30100 - Tr	ansbay Trans	sit Center	Project	-		
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
has de Please	SI 104, the attached drawings setermined the glass guard rails to confirm these locations are concations the guardrail embeds s	shall be installed. orrect and are the							
T-0441	BSE - Micropi	ile W638 Relocation (Dewater	ing Well Conflict)	Closed	03/14/2013	03/24/2013	03/19/2013	Potential	ly 🗌
From: \	Webcor Construction LP	Lynn Kowallis	To: Turner Construction C	ompan Gary Krutsch	Answered B	y:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQU Ref: So	IEST: ubmittal TG0300 - 622.4		SUGGESTION:			Accept Sug masetti does not 338 as proposed.	object to shifting		
well. B provide south o	olle W638 as laid out is in confli BBII proposes moving Micropile e adequate clearance. This Mic of J-Line and the Geothermal p ed sketch.	W638 East 2' to cropile is located			wildiopile vve	оо ио ргорозси.			
Please	e confirm this is acceptable.								
T-0442	BGP - Geothe	rmal Riser Bracket Details		Closed	03/14/2013	03/24/2013	03/18/2013	Potential	ly 🗌
From: \	Webcor Construction LP	Lynn Kowallis	To: Turner Construction C	ompan Gary Krutsch	Answered B	y :Arup	Kevi	n Clinch	
Co-Author:									
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
and Tu geothe details	quested in the Geothermal Meet urner, please confirm that the a ermal pipe riser brackets are ac c clarify the offset from the face ed to avoid conflict with the water aranes.	ttached details for the cceptable. These of the CDSM wall			This is accep				
T-0442.1	BGP - Geothe	rmal Riser Bracket Details		Closed	03/21/2013	03/31/2013	03/29/2013	Potential	ly 🗌
From:\	Webcor Construction LP	Robert Kjome	To: Turner Construction C	ompan Gary Krutsch	Answered B	y:Adamson Ass	ociates, Inc Geo		- 🔲
Co-Author:	Shimmick Construction Compa	ny Inc Chris Williams		· •				- •	

SUGGESTION:



Co-Author: Shimmick Construction Company, Inc Ben Gordon

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

454 of 1053 10:53 AM

30100

Time:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
and Turne geotherma details clai	ted in the Geothermal Meet r, please confirm that the a al pipe riser brackets are ac rify the offset from the face o avoid conflict with the wate es.	ttached details for the ceptable. These of the CDSM wall			The detail sho	Accept Sug	gestion: sketch is acceptab	ole.	
-0443	BGP - C Chan	nel Confilct with Geother	mal Pipe Riser	Closed	03/12/2013	03/26/2013	03/21/2013	Potential	Ily \square
From: Web	ocor Construction LP	Ian Corcorran	To: Turner Construction Co	mpan Gary Krutsch	Answered By	y:Turner Constr	uction Comr Jack	Adams	
Co-Author: Shim	nmick Construction Compa	ny, Inc Chris Williams		,			·		
REQUEST	Γ <u>.</u>		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Specification: 23 57 34		000020		_	els are part of th			
Shimmick one lift up behind the geotherma Channels the geothe	plans to excavate the geoti the CDSM wall. There is cue C-Channels for Shimmick al pipe risers. Please confirm will be removed from the sharmal riser installation or pro- or the risers.	urrenlty no clearence to excavate the m that the C- noring system prior to					System. Coordina els with the CM/G		
-0443.1	C-Channel Re	moval prior to Mat Slab a	nd Re-bracing installation.	Closed	03/20/2013	03/30/2013	03/25/2013	Potential	lly 🗀
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered By	y: Turner Constr	uction Comr Jeff T	hiel	• 🔲
Co-Author:				,					
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
wall to gro acceptable	nermal Risers are to be inst und level in one sequence. e to remove the C-Channels acing installation.	Please confirm it is					RFI T-0443. This i	s a	
-0445	BGP - Mat Sla	b Pour Length		Closed	03/14/2013	03/28/2013	03/21/2013	Potential	lly 🔲
From: Web	ocor Construction LP	Ian Corcorran	To: Turner Construction Co	mnan Gary Krutech	Answered By	V. V dameon Vec	ociatos Inc Goord	ao Motzgor	



From: Webcor Construction LP

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Turner Construction Comr Jack Adams

455 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Reference S SCCI has re CJ submittal CJ's to have be under 60' (as specified concourse C Mat slab pou 1' over the s Is it accepta	Specification: 03 30 20 3.2 Sketch: CJ-03 (Mat Slab pour Sevised the construction joint lay Il comments, and has modified all concourse CJ's line up wit of long, and fall within center thind). As a result of trying to main cJ's within the specified parameters (S112) will need to extend specified length.	vout to address I locations of the h the wall CJ's, ird of the span tain the wall and leters one of the to 121', which is	SUGGESTION:			cceptable for pou	gestion: ur S112. un Joint Layout sul	omittal	
	120) 121 long (East Woot allo	olion):							
T-0446	•		on (Overhead Obstruction)	Closed	03/18/2013	03/28/2013	03/19/2013	Potentia	ly
	or Construction LP	Lynn Kowallis	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc. Brandon Miller REQUEST: Ref: Submittal TG0300-622.4 and TG0601-009.1 Micropiles W390 and W393 cannot be installed as laid out due an overhead obstruction. BBII proposes moving W390 West 16" to provide adequate clearance. BBII proposes moving W393 West either 10" or 2'-10" to provide adequate clearance. The proposed location for Micropile W390 will be South of the geothermal area. The proposed locations for Micropile W393 will be within the geothermal area; however, the proposed locations do not appear to impact geothermal piping and the 12" minimum clearance between pipe and piling will be maintained (Note 4 on Geothermal Submittal sheet GT-Zone-02). See attached sketch. Please confirm this is acceptable.		SUGGESTION:			Accept Sug masetti does not 390 and W393 a	object to shifting			
T-0447	80 Natoma Shoring	g Beam in Sump Pit		Closed	03/18/2013	03/28/2013	03/20/2013	Potentia	lly

To: Turner Construction Compan Gary Krutsch



to compensate for the reduced wall thickness to clear the encroaching SP as depicted in SK-T-0448.2 (Exhibit-F).

B. At SP 819 WOJV is proposing to decrease the wall thickness to 33 3/16" with #11 rebar spacing to 6" o.c. between the centerline of the (2) adjacent piles. Similar to above, as depicted in SK-T-0448.3 (Exhibit-G) SP #753 encroaches 2-3/16". WOJV would reduce the wall

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 456 of 1053 11/05/2013 10:53 AM

30100

Date: Time:

Job:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
to Author D. K	5	V 11 50							
o-Autnor: Balfour	Beatty Infrastructure, Inc	. Kelly Phariss							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
	hoto: attached				wall to be rem	oved to elevatio	ws 80 Natoma Sh n -44'-6" also GT n of Pits to be -44	-2101	
	firmed that the 80 Natoma to) has been demolished				Deeper remov	al of the 80 Nat	oma wall beams	are not	
required per s provide depth	Sheet D-2210 and RFI T- that BBII must demolish le so not to conflict with ge	0317.3. Please the attached 80			required in ord piping. The TG	er to allow clea 306 Contractor I	rance for the geo nas taken these ii Loop Piping Sub	thermal nto	
0440	CDCM Caldian	Dila Francock mont		Classed	02/40/2042	02/20/2042	02/07/2042	Detential	¬
0448 5	or Construction LP	Pile Encroachment	To T	Closed	03/19/2013	03/29/2013	03/27/2013	Potential	іу 📗
	or Construction LP	Kirk Nielsen	To: Turner Construction Co	mpan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Do	ocuments: Exhibits A-H					e to reduce the	foundation wall spacing reduction	20	
	o the 3/13/13 meeting with					ne 5 inquired lo		uo	
	e CDSM soldier pile (SP) o posal for mat slab area #1				conditions that		roval for future O shall coordinat hop drawing prep		
(Exhibit-C) de	neets SH-2000 (Exhibit-B) epict the location of the er which they are encroach	ncroaching SPs and			арргочеч точ	incations with s	nop drawing prep	aration.	
Predicated or	n SE stamped detail A/SL	.C.1 (Exhibit-D):							
decrease the spacing to 6" adjacent piles (Exhibit-E) SI	s 753, 761, 765, & 787, W wall thickness to 34-1/2" o.c. between the centerli s. For example, as depic P #753 encroaches 1-1/4' all thickness while reducir	with #11 rebar ne of the (2) ted in SK-T-0448.1 ". WOJV would							



Webeen/obayasin John Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 457 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
for the reduced	e reducing the rebar sp d wall thickness to clea SK-T-0448.4 (Exhibit-F	r the encroaching SP							
flanges to acco	iew the possibility of cu ommodate the encroac dy was ruled out as it c g system.	hment however, this							
Please advise.									
T-0448.1	BGP - CDSM S	Soldier Pile Encroachmen	t, mat areas 1&2 all levels (Exhibit-A).	Closed	04/26/2013	05/06/2013	04/26/2013	Potential	ly
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	:Webcor Const	ruction LP Mari	na Rosso	
Co-Author: Webcor	Construction LP	Kirk Nielsen							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: T-0448, S	SH-2001, SH-2000				Can't find ans	wer in Construc	-		
addressed the piles (SPs) on address the er (Exhibit-B) at a	response #T-0448 (Exh impact of the encroach the first or bottom wall ncroaching SPs in mat all levels of wall. This R esponse #T-0448.	ning CDSM soldier segments. This RFI slab areas 1&2							

Marked up sheet SH-2001 (Exhibit-C) depicts the location of the encroaching SPs and the degree in which they are encroaching.

1. SP #753 in mat area #2 encroaches 1-1/4" at elevation - 34.12.

WOJV is proposing to decrease the specified 36" wall thickness to 34-3/4" to clear the encroaching SP. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.

2. SP #761 in mat area #1 encroaches 7/8" at elevation - 34.12.

WOJV is proposing to decrease the specified 36" wall



Page: Date:

458 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

thickness to 35-1/8" to clear the encroaching SP. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.

- 3. SPs #765-770, vary in the degree of encroachment the worst of which is SP #765 in mat area #1 which encroaches 1-7/8" at elevation 25.10. WOJV is proposing to decrease the specified 36" wall thickness to 34-1/8" to clear the encroaching SPs. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.
- 4. SP #787 in mat area #1 encroaches 7/8" at elevation -34.42.

WOJV is proposing to decrease the specified 36" wall thickness to 35-1/8" to clear the encroaching SP. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.

Marked up sheet SH-2000 (Exhibit-E) depicts the location of the encroaching SPs and the degree in which they are encroaching.

1. SP #819 in mat area #1 encroaches 2-3/16" at elevation -34.24.

WOJV is proposing to decrease the specified 36" wall thickness to 33-13/16" to clear the encroaching SP. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.

T-0448.2 **BSE - CDSM Soldier Pile Enchroachment** Closed 04/29/2013 05/09/2013 04/26/2013

Potentially

Robert Kjome To: Turner Construction Compan Gary Krutsch

From: Webcor Construction LP



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

459 of 1053 11/05/2013 10:53 AM

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Proceed
-							

SUGGESTION:

REQUEST:

Ref: T-0448, SH-2001, SH-2000

Previous RFI response #T-0448 (Exhibit-A) only addressed the impact of the encroaching CDSM soldier piles (SPs) on the first or bottom wall segments. This RFI address the encroaching SPs in mat slab areas 1&2 (Exhibit-B) at all levels of wall. This RFI shall supersede previous RFI response #T-0448.

Marked up sheet SH-2001 (Exhibit-C) depicts the location of the encroaching SPs and the degree in which they are encroaching.

- 1. SP #753 in mat area #2 encroaches 1-1/4" at elevation 34.12.
- WOJV is proposing to decrease the specified 36" wall thickness to 34-3/4" to clear the encroaching SP. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.
- 2. SP #761 in mat area #1 encroaches 7/8" at elevation 34.12.

WOJV is proposing to decrease the specified 36" wall thickness to 35-1/8" to clear the encroaching SP. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.

- 3. SPs #765-770, vary in the degree of encroachment the worst of which is SP #765 in mat area #1 which encroaches 1-7/8" at elevation 25.10.
 WOJV is proposing to decrease the specified 36" wall thickness to 34-1/8" to clear the encroaching SPs. WOJV would reduce the wall thickness while compensating by supplementing the base contract #11 bars @ 8" o.c. with intermediate #7 bars (Option #3 Exhibit-D) exclusively at the level of encroachment.
- 4. SP #787 in mat area #1 encroaches 7/8" at elevation 34.42.

WOJV is proposing to decrease the specified 36" wall thickness to 35-1/8" to clear the encroaching SP. WOJV

ANSWER:

Accept Suggestion:

Can't find answer in Constructware



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

460 of 1053

Time:

10:53 AM

30100

30100 - Transbay Transit Center Project

				<u> </u>						
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce	
would reduce the wasupplementing the bintermediate #7 bars the level of encroach Marked up sheet Shof the encroaching sencroaching.	pase contract #11 l s (Option #3 Exhib nment. I-2000 (Exhibit-E)	bars @ 8" o.c. with it-D) exclusively at depicts the location								
-34.24. WOJV is proposing	to decrease the sp 6" to clear the end all thickness while base contract #11 l s (Option #3 Exhib	croaching SP. WOJV compensating by bars @ 8" o.c. with								
Please confirm that acceptable.	WOJV's proposed	I solutions are								
T-0448.3	BGP - CDSM S	oldier Pile Encroachment	, mat areas 1&2 all levels.	Closed	05/03/2013	05/17/2013	04/26/2013	Potential	ly 🗌	
From: Webcor Const	truction LP	Lynn Kowallis	To: Turner Construction Com	pan Gary Krutsch	Answered B	y :Webcor Const	ruction LP Marii	na Rosso		
Co-Author: Webcor Const	truction LP	Kirk Nielsen								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: Previous	RFI #T-0448, Re	lated RFI #T-0530.			Can't find ans	swer in Construc	tware			
Previous RFI resport impact of the encroather first or bottom we encroaching SPs in wall. This RFI shall	aching CDSM sold all segments. This mat slab areas 18	ier piles (SPs) on s RFI addresses the 2 at all levels of								

T-0448.4 **CDSM Soldier Pile Enchroachment**

From: Webcor Construction LP

Please see attachment SK-1 for RFI T-0448.3 questions.

0448.

Robert Kjome

To: Turner Construction Compan Gary Krutsch

Closed

05/09/2013

05/19/2013

05/24/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 461 of 1053 11/05/2013

Time: Job:

: 10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug			
Reference: Pre	vious RFI #T-0448, Related RFI #T-0530.				all modification p Comments are as	oroposals 1-10 ai s follows:	e not	
impact of the er the first or botto encroaching SF wall. This RFI s 0448.	sponse #T-0448 only addressed the acroaching CDSM soldier piles (SPs) on m wall segments. This RFI addresses the in mat slab areas 1&2 at all levels of hall supersede previous RFI response #T-chment SK-1 for RFI T-0448.4 questions.			#T-0448. The prors from previously oviding calculational compensates are capacity of the due to shoring	y ns that for			
				slab area #1) walls (e.g., se	differ from those	out walls (west of e in typical founda ection call out). P	ation	
						ch that shows the detail of added re		
					es are not allowe anical couplers.	d in additional re	bar. Use	
				to show the a	ctual location of the applied option	ction detail is ins the added rebar ons should be sh	in plan.	
				F.) Reference	SK1 is not inclu	ided in this RFI.		
				SP(s) #737-7		dimension provid ch maximum dim ease reconcile.		
				,	er to a supersed lumn for pile 819	led RFI (in SK-3		
				I.) Coordinate drawings for ⁻		s with future shop)	

T-0448.5

Robert Kjome



Project Meetings and 07 12 10-1.3.B.2, Modified Bitumen

"Project Meetings" states the TJP A is responsible for

with 2 days after the conference while the "Modified

preparing the meeting minutes and then distribute them

Waterproofing- see the attached PDF.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Spec. 07-12-10 Para 1.3 Administrative Requirements

which states; "The following requirements are in addition to the provisions of Spec. 01-12-00 and 01-

14-00." "The minutes of the conference shall be

submitted by the Contractor to all attendees and

interested parties no less than 3 days after the

462 of 1053 11/05/2013 10:53 AM

Time: 30100

Numbe	er <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Au	thor							
		0110.05071011		*******		. \Box		
	REQUEST: Reference Documents: Exhibits A - G	SUGGESTION:		ANSWER:	Accept Sug			
] 5 V	This RFI addresses the impact of the encroaching soldier piles (SP) on the South wall in slab area 1 well as all levels of the encroachment into the four wall between CDSM piles 733 and 772. (Exhibit A)	& 2 as ndation		reinforcement changes with	is acceptable. \ TG06 contracto	N/O to coordinate r, including previo	ously-	
	Exhibit B & Exhibit C depict the location and degrewhich the SPs are encroaching.	ee in						
i ; ; ; ; ;	WOJV proposal: Between SPs 733 and 772 (whice intersection of the South and West wall) WOJV is proposing to decrease the specified 36" wall thicknown at 18" to clear all the encroaching SPs. WOJV wereduce the thickness while reducing the rebar space compensating for the reduced wall thickness predion SE stamped Detail A/SLC.1 (Exhibit D) this modification would clear all the encroaching SP/st issues between 733 & 772, See Exhibit E, F, & G.	ness to ould cing to cated						
	This modification, if approved, would be incorpora the TG06 shop drawings.	ted into						
F	Please confirm if this is acceptable.							
Γ-0449	BGP - Pre-Installation Co	nference Meeting Minutes-Waterproofing	Closed	03/19/2013	03/29/2013	03/21/2013	Potential	lly 🗌
F	From: Webcor Construction LP Lynn	Kowallis To: Turner Construction Cor	mpan Gary Krutsch	Answered By	Turner Constru	uction Comr Jack	Adams	• 🔲
Co-Au	thor: Shimmick Construction Company, Inc Ben	Gordon				,		
F	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Ref: Specification Section -01 12 00 1.5.D, 07 12 1.3.B.2 and 00 07 00 1.05	10		prepared and	onflict. The meet submitted by th	ting minutes will be Contractor withing co. 07-12-10 Mod	in 3	
	There appears to be a conflict in responsibility and duration between Specification Section 01 12 00 -			Bitumen Water	erproofing. Prein	stallation meeting of the Contractor	g	



construction joint (CJ), and detail 2 on S1-3001. Detail No. 2 on CD S1-3001 shows CJ for the mat slab 5 thick section, however, the contract drawings do not provide

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

463 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co and	umen Waterproofing" section seems ntractor/Trade Subcontractor is to p d distribute them no less than 3 day nference.	repare the minutes			conference."				
Pre pre Pre	sed on General Conditions 00 07 00 ecedence of Contract Documents, copare and distribute the Modified Bit e-Installation Conference Meeting m 12 00-1.5.D.	onfirm the TJPA will umen Waterproofing							
T-0450	BSE - Dewater	ing Casing Tolerances		Closed	03/19/2013	03/29/2013	03/26/2013	Potential	ly
Fro	m: Webcor Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Auth	or:								
Sp Ple	ecification Section: 31 23 19 ease confirm the TG03 contract doce plumbness of the dewatering well of		SUGGESTION:		mentioned in t Specification s "Coordinate w items to be ins structure" and	he specification section 31 23 19 ork to avoid class stalled as part of detail 6 / A1-87 oe drawn plumb	well is not explicient is not explicited. 3. However Dewild 1.11 C states withand continued in the permanent is the permanent.	atering other	
T-0451	BGP - Mat Slab	Construction Joint Dime	nsions	Closed	03/19/2013	03/29/2013	03/25/2013	Potential	ly
Fro	m: Webcor Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Auth	or: Shimmick Construction Compan	y, Inc Filip Filipic							
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Re Ple cor	ference Specification:031000 ference Drawings:S1-3001 ease reference attached sketches of instruction joint (CJ), and detail 2 on on CD S1-3001 shows CJ for the ma	S1-3001. Detail No.			key for the ma mat and cham Although not ii	t slab constructi fer areas as sho nquired about, n sion on section	e 1'-8" wide by 10 on joint at thicke own on the RFI s ote the foundatio c-c should be 6"	ned ketch. on wall	



Please reference the Vehicle/Bike beam end support detail 1 on S1-3411. The L8x8 connections appear to be shown to be fabricated at a 90 deg angle between the foundation wall and the Vehicle/Bike beams. Per Detail 1

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

464 of 1053 11/05/2013

Time: Job:

: 10:53 AM 30100

				•		•			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
slab at the pits (chamfer. SCCI : 1'-8" wide and 1	ons for the thickened possible (sump pits, elevator posuggests maintaining o'' deep (as shown or t slab CJ's, and as sh	its, etc.), and the 3 ft mat slab keyway at n detail 2 on S1-							
T-0452	BGP - Concre	te Beam Under Slab		Closed	03/19/2013	03/29/2013	03/25/2013	Potential	ly
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST: Reference Specification: 033020 Reference Drawing: S1-2251, S1-3205, S1-3400 Please reference the Vehicle/Bike ramp framing plans on S1-2251. Detail 1 calls for a 36" x 48"concrete beam below the ramp slab. However, this concrete beam is not indicated in section detail 7 on S1-3205. The beam size and specifications as described on S1-2251 does not match a beam listed in the beam schedule on sheet Sl-3400. The plan on SI-2251 does not clearly show where this beam begins and ends.			SUGGESTION:		the ramp slab condition. Th from the face beam is not n required for d and stirrup int shall apply for	over foundation e inquired conc of the foundation narked as a sch etailing is providuo is called out. a cantilever coup bars shall ext	ded for the beam in wall with corbel rete beam is cant on wall. Although eduled beam, the led. Longitudinal Typical detail 2/S	ilevered this info bars 1-3401	
	additional information 6" x 48" concrete bea								
T-0453	BGP - Angle S	Steel Beam Connections		Closed	03/19/2013	03/29/2013	03/29/2013	Potential	ly
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
•	cification:032000 vings:S1-3411, S1-22	51			For inquired r		ngle conditions, L	.8x8 can	



western most beam indicated on drawing A1-7401.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 465 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
the foundation further clarifica	251, the beams are sho wall at varying angles. attion/details at the beam he L8x8 connections.	SCCI requests							
-0453.1	BGP - Vehicle/	Bike Beam End Supports		Closed	04/11/2013	04/21/2013	04/22/2013	Potentially	у 🦳
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Con	npan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmic	ck Construction Compar	ny, Inc Jesse Dillon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: RFI T-0453, AI-7401, SK-115 Please reference attached drawings. RFI T-0453 stated that the L8x8x1 1/8" shall be bent to match the angle at which the Vehicle/Bike ramp beams meet the wall. At the western most beam the acute angle at which the beam meets the wall is 56 degrees and the obtuse angle is 124 degrees. See attached marked up Contract Drawing AI-7401 for angle measurements. Bending the 1 1/8" thick legs of the L8x8 is not feasible and would structually stress the member. SCCI proposes to weld two 1 1/8" plates together to fabricate the angles. See attached drawing SK-115 for details. The additional two beam members shall be fabricated per the measured angles.					create the (2)	angles for the w	1/8" plates togethestern most bearetration (CJP) we	m,	
T loade advise	e if this is acceptable.								
-0453.2	BGP - Clarifica	tion of Vehicle/Bike Beam E	nd Support	Closed	10/02/2013	10/12/2013	10/16/2013	Potentially	у 🗌
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmic	ck Construction Compar	ny, Inc Ben Gordon							
7401 and SCC Per RFI respo	attached drawing S1-2 If sketch SK-115. Inse T-0453.1, it is accep	otable to weld two 1	SUGGESTION:		ANSWER: George Metzg 10/14/2013 RESPONSE: Confirmed	Accept Sug	gestion:		
	nse 1-0453.1, it is acceptether to create the (2) a				Confirmed				



(see attached photos). With this existing condition, SCCI can not adhere to the plumbness tolerance (1/16") for installation and maintain the required 1/2" maximum gap between sleeve and casing per Section 2 of Sheet S1-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

466 of 1053 11/05/2013

30100

Time: 10:53 AM

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please confir	rm the Vehicle/Bike Ram	p end support acute							
	egrees and obtuse angle attached SCCI sketch S								
-0454	BGP - Steel C	ap Collar Weld Location		Closed	03/19/2013	03/29/2013	03/22/2013	Potentiall	у 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Shimm	ick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	pecification: 055010 rawings: S1-3003, A1-87	′11, Submittal No.			the shop) before weld in the sh	sleeve and collar ore the mat is po op drawing is ac	r are welded toge oured, the location eceptable. If inste- ne sleeve in the f	n of `ead the	
Al-8711 along sleeve shop depict conflic	ence attached Contract D g with approved as noted drawing. The 3 dewatering sting weld locations for the collar to sleeve connections	d dewatering pipe ng sleeve drawings le 5/16" fillet weld of			after the mat i	s poured, then v that will require	veld access will be the weld to occur	e a	
Please clarify	y/confirm the location of t	this weld.							
-0455	BGP - Out of F	Plumb Dewatering Casing		Closed	03/19/2013	03/29/2013	03/27/2013	Potentiall	у
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Shimm	ick Construction Compa	ny, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Di	pecification:055010-3.2.0 rawings: S1-3003 hoto: attached				the maximum	gap between sle ceeds 1/2" for the	ells, we will not ol eeve and dewate nose dewatering	ring	
and Spec Se the existing o	ence Sheet S1-3003 of the ction 055010-3.2.C SCC dewatering wells for plum be approximately 3/4" or	I spot checked two of sbness and found				,			



technology for communitcation with the data logger. The

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

GC to coordinate waterproofing requirements with waterproofing subcontractor and submit proposed waterproofing details in the shop drawings. 467 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project										
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
sleeve and gr per Sheet S1-	uggests increasing the of anting a variance on the 3003. SCCI will maintai erances in Spec Section	e 1/2" gap tolerance n adherence to the								
-0455.1	BGP - Dewate	ring Well Above Grade PV	C Pipe	Closed	03/29/2013	04/08/2013	04/02/2013	Potential	ly 🗌	
From: Webcor	Construction LP	Robert Kjome	To: Turner Constructio	n Compan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger		
Co-Author: Shimmi	ck Construction Compa	ny, Inc Chris Williams								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:			
Per discussion DFOW meeting sleeves, the Fican be cut just avoid varying casing preser diameter issurated avoid debris of would not be installed. Pleas meeting that the grouting after the decorate sleeves.	awings: A1-8711 In in the pre-installation and sport the metal fabrica PVC dewatering casing a strabove or at top of much diameter issues. Without above mud slab grade es and plumbness issue entering the dewatering the dewatering the casing is account until the penetration ase confirm per the discounting the casing is accounting the dewatering back of the dewatering mmissioning of the dewatering the dewatering the dewatering the dewatering the dewatering back of the dewatering the dewatering the dewatering the dewatering back of the dewatering the dewate	tion penetration above the mud slab d slab elevation to ut the dewatering e, the varying casing es are solved. The to casing, the casing sleeve is to be ussions in the eptable. Please note ng casing shortly eatering pump will be			acceptable. N	uld be cut above	RFI T-0455.1 is ring casings that the top of mud s			
-0456	BGP - Mass C	oncrete Temperature Mon	itoring Equipment Installation	on in MAT Slab Closed	03/25/2013	03/25/2013	04/03/2013	Potential	ly 🗌	
From: Webcor	Construction LP	Ian Corcorran	To: Turner Constructio	n Compan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger		
Co-Author: Shimmi	ck Construction Compa	ny, Inc Ben Gordon								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:			
Reference Sp	•	,			_	asetti does not	object to propose	d		
install temper							g requirements w			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayasiii Joint Venture

Page: Date: 468 of 1053 11/05/2013

Date: Time: Job:

2: 10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
moniting SCCI corross moniting the Microscopy with s	transmiter, which is wired to bring device, will be elevated will tie a 1/4" diameter fiberg ive, rod to the reinforcing mapring RFID transmitter will that Slab. Once Thermal Monit ete, this non-corrosive rod ar ab. Reference attached broomethod acceptable?	out of the concrete. lass, or similar non- it. The temperature en be elevated clear of oring activities are ind cable will be cut flush							
IS this	method acceptable?								
T-0457	BGP - Mat s	slab changes per Field Order	11 (Future ASI 102)	Closed	03/25/2013	04/04/2013	04/03/2013	Potential	lly
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:	Shimmick Construction Com	pany, Inc Filip Filipic							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Field stage field of are the resulting fither Area 3.5), gincorp	ence RFI: T-0415 ence Field Order No. 11 (Future ASI 102) and without the Contract Drarders SCCI cannot plan the vere any changes to the founding from Field Order 11 (Future ample: e are changed/added drainages (Mat slab pour # S103; GL eothermal work cannot beging orated. e confirm that Field Order Nother forthcoming Field Order	y is still in the design awings incorporating the work. More specifically, lation (Mat slab) re ASI 102)? The pe pits in the SCCI's A thru J, and 1 thru n until such changes are			pits are not ex small sump pi which was sho RFI T-0415 Bi slab thickenin been relocate Booster and li	ab GL A thru J a spected change, t in the elevator own on the attac GP. Within the gs) floor drains d at the Fire Pun rrigation Pump F	and 1 thru 3.5 dra with the exception pit GL 1.4 to 2, Estiments responding mat slab (not affeat and floor sinks hamp and Domestic Rooms and a floor room located GL	on of the E.6 ng to ecting ave : r drain	

From: Webcor Construction LP Robert Kjome

Co-Author: Shimmick Construction Company, Inc. Andy Khuu

BGP - Concourse Slab CJ Layout

T-0458

To: Turner Construction Compan Gary Krutsch

Closed

03/26/2013

Answered By: Adamson Associates, Inc George Metzger

04/04/2013

Potentially

04/05/2013



Webeel/Obayasiii Soint Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 469 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

shop drawings.

Number	Subject	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Specification: 03 30 20 Reference Drawings: CJ-05 and CJ-22				The second o is acceptable.		esult in a larger m	at pour)	
30 Lay sla CJ the	order to meet the Joints in Concret 20-3.2), SCCI's revision of Construyout Submittal requires the CJ between 55 D116 and D117 (see attrached -22) to be 2'-10" outside of the requision (reference 03 30 20-3.2.B.1 is is acceptable.	uction Joint (CJ) ween concourse reference drawing uired center third of							
mo Ea: dra inc ma	the above is not acceptable, then Sove the CJ line (between D116 and st. Since mat slab S108 (see attackwing CJ-05) is currently 120'-0" wireased to 122'-10" wide. This wou ximum width of 120'-0" as specifiesA.3. Please advise if this alternation	D117) 2'-10" to the hed reference de, it will be uld be wider than the ed in 03 30 20-							
T-0459	BGP - Waterp	roofing and CJ Concourse	Slab Layout Conflict	Closed	03/27/2013	04/06/2013	04/01/2013	Potential	ily
Fro	m: Webcor Construction LP	Lynn Kowallis	To: Turner Construction C	Compan Gary Krutsch	Answered By	Turner Constru	uction Comr Jeff T	hiel	
Co-Autho	or: Shimmick Construction Compa	ny, Inc Ben Gordon							
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Specification: 07 12 10 Reference Drawings: A1-2203 and S1-3201						ion issue. CM/GC		
Ple	Please reference Al-2203 and Sl-3201 of the Contract						on in the coordina		

Please reference Al-2203 and Sl-3201 of the Contract Plans and the attached drawings. The current elevation at the bottom of the 2nd level bracing lookouts is at approximately -5.13, WEST of Grid 9 (see concourse slab drawing). The proposed top of concourse slab elevation is to be -5.42, WEST of Grid 9. Per the WPM-1 waterproofing system, the minimum overall tie-in dimension needed for the succeeding lift is approximately

1 '-11" (see attached waterproofing drawing).

The current elevation at the bottom of the 2nd level bracing lookouts is at approximately -6.15, EAST of Grid 9 (see concourse slab drawing). The proposed top of concourse slab elevation CJ is to be -7.67, EAST of Grid 9. Per the WPM-1 waterproofing system, the minimum



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

470 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

overall tie-in dimension needed for the succeeding lift is approximately 1 '-11" (see attached waterproofing drawing).

In both locations, the minimum required dimension (1 '-11") to tie-in to the next lift of waterproofing can not be reached with the current location of the 2nd level bracing lookouts and the proposed concourse slab elevations. SCCI is restricted in location for the CJ due to the absolute concourse slab location and elevation.

Furthermore, a similar conflict exists in the 1st foundation wall lift and the 3rd level of bracing lookouts (see 1st wall lift drawing). With SCCI's current location of the CJ, there is virtually no room to allow for the waterproofing overlap to occur. SCCI fully understands its freedom to manipulate the location of the CJ's by lowering it approximately 2'. This will potentially change BBII's rebracing plans.

Please advise.

T-0460 **BGP - Waterproofing and CJ at Mat Slab Conflict** Closed 03/27/2013 04/06/2013

From: Webcor Construction LP Lvnn Kowallis

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

drawing).

Ref: S1-3201

Please reference S1-3201 of the Contract Plans, RFI #T-0459, and the attached drawings. The current elevation at the bottom of the 4th level bracing lookouts is at approximately -31.56 (see mat slab drawing). The proposed top of mat slab elevation CJ is to be -32.37. Per the WPM-1 waterproofing system, the minimum overall tie-in overlap dimension needed for the succeeding lift is approximately 1'-11" (see attached waterproofing

The minimum required dimension (1'-11") to tie-in to the next lift of waterproofing can not be reached with the current location of the 4th level bracing lookouts and the proposed mat slab chamfer elevations. SCCI is restricted To: Turner Construction Compan Gary Krutsch

SUGGESTION:

ANSWER: **Accept Suggestion:** This is a contractor coordination issue. CM/GC to

coordinate this work between their sub-contractors and show the proposed solution in the coordinated shop drawings.

Answered By: Turner Construction Comr Jeff Thiel

04/01/2013

Potentially



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 471 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

A/S1-3201.

umber Subject		<u>Statu</u>	ıs	Date Created	Date Required	Date Answered	Cost Impact	Procee
in location for the CJ due to the absorbanfer location and elevation.	olute mat slab with							
Please advise.								
0461 BSE - Cross	- Lot Rebracing	Close	ed	03/27/2013	04/06/2013	04/03/2013	Potentiall	ly 🗌
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction Compan Gary Kruts	sch	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	
co-Author: Webcor Construction LP	Lynn Kowallis							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref: S1-3201 and Field Order 10R2 -S1-3201 Base contract detail A/S1-3201 gave the contractor the option to utilize an internal concrete waler or an external steel waler for rebracing. The FO #10R2 version of detail 1/S1-3201 appears to have eliminated one of the two original rebracing options, leaving only the external steel waler option. Please confirm it was the designer's intent not to use an internal concrete waler for rebracing.				concrete wale was the design communication would be used 1/S1-3201 onloption). FO # contractor from aspects of a re	r as in base connateam's undersons with the control, thus the FO #'y graphically should be and ebracing system.	a steel waler or tract detail A/S1-tanding from prevactor that a stee 10R2 version of cows the steel wale used to prohibi installing all necret in base contra	3201 (It vious I waler detail ler the essary manent	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 472 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0462	BGP - Grounding	Wire Penetrations in N	lud & Protection Slab	Closed	03/28/2013	04/07/2013	04/10/2013	Potentiall	y 🗌
From: Webcor 0	Construction LP	Lynn Kowallis	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick	k Construction Company,	Inc Ben Gordon							
sheet 5.07, Spe The contract plants of the grounding wire this grounding with the waterproofil wire penetration stated that if the slab is wire	and Submittal Package Tecification Section 26 05 2 ans and specifications call to be bare copper. At the wire penetrates the mud & ng supplier (Laurenco) recent to be solid metal or a roce electrical grounding penas shown in the plans and ng system will leak.	If for the Iocations in which protection slab, quires the ground Laurenco has etration through	SUGGESTION:		penetrate the provide a smo copper 4/0 gro detail sketch E #PTC-2P2L or waterproofing these spliced	waterproof men oth impenetrab bunding conduct SK-20 using E equal. Refer to detail 5/A1-871 conductors.	gestion: ctrode conductor or conductor or conductor or conductor per the attach crico Cadweld more of the attached recommended of the attached of	o a solid aed Id vised ng of	
T-0463 From: Webcor C	•	W400 & 417 Relocation lan Corcorran Brandon Miller	To: Turner Construction Co	Closed Impan Gary Krutsch	03/28/2013 Answered By	03/29/2013 :Adamson Asso	04/01/2013 pociates, Inc. Georg	Potentiall rge Metzger	у [
REQUEST: Reference Special Micropiles W40 due to an overhal Instrumentation BBII proposes a to provide adequation Micropile W400 area; however, impact geothers. See attached s	cification: 31 63 33 00 and W417 cannot be incread obstruction (Geotech Pipes). moving W400 South 5' an quate clearance. The proposed locations do mal piping.	stalled as laid out inical d W417 South 3' osed locations for the geothermal	SUGGESTION:			Accept Sug asetti does not 00 and W417 a	object to moving		
T-0464 From: Webcor C Co-Author: Shimmick		on of Curing and Therm Lynn Kowallis Inc Ben Gordon	al Protection Methods To: Turner Construction Co	Closed ompan Gary Krutsch	03/28/2013 Answered By	04/07/2013 Adamson Asso	04/09/2013 ociates, Inc. Georg	Potentiall rge Metzger	у 🗌



Please reference TG06.0 Contract Specifications 03 30 20.3.7.5.b.3 and Project Meeting with Thornton Tomasetti

(SER), held Thursday, April 25.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 473 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

is acceptable.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Specificat 033020.3.7.A.o Ref: Submittal		11.D, and			does not mee intent is to ke	t the specificati ep the surface o	ng is not acceptabons for moist curin	ig. The	
Reference Mass Concrete Plan prepared by CTL Group, Submittal Package TG0600-201.1, item 033000-011.1, page 10 - Curing. This paragraph state " slab placement will be cured in a method that does not artificially excessively decrease the surface temperature of the concrete placement. This means that continuous wetting of the concrete should he avoided."							with the use of the ature differential.	ermai	
	cification section 0330: es "Thermal Blankets a al cracking."								
paragraph calls	cification section 0330; s for "Moist curing of th covering the slab with	e Mat Slab by means							
	ched letter " Wet Curin MEX QC Manager Bay								
of CLT Group thermal cracking	o cure the Mat slab per Mass Concrete Plan. D ng, SCCI intends to util g blankets and not cov	ue to the high risk of ize impermeable							
Is this accepta	ble?								
T-0464.1	BGP - Mat Sla	b Curing Techniques		Closed	04/26/2013	05/06/2013	05/08/2013	Potentia	lly 🗌
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction C	compan Gary Krutsch	Answered By	:Webcor Cons	truction LP Robe	rt Kjome	
Co-Author: Shimmic	k Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe	Reference Specification: 03 30 20				The proposed	I method of moi	st curing for the m	at slab	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

474 of 1053 11/05/2013

Time: Job:

conductors to rise in the foundation wall for extension

into the Lower Concourse slab.

10:53 AM 30100

				•		,			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
the above refere	Moist cure the Mat Fenced method found in the a l.	n the contract							
Please confirm	this method is accepta	able.							
T-0465	BGP - Relocat	tion of Geothermal Risers	Due to Leaking CDSM Wall	Closed	03/28/2013	04/07/2013	04/04/2013	Potentiall	y 🗌
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick	Construction Compa	ny, Inc Chris Williams							
the surface of n	picture attached, wate ot only the CDSM par r is laid out on, but the	nel that the	SUGGESTION:		soldier Pile 36	6 (between 36 a GP. It is accept	gestion: ted between east nd 37) as indicate able to locate Fie	ed in	
location betwee location betwee	that SCCI can move t n Piles 35 & 36 and th n Piles 38 & 39. Both ir to be leaking less th	ne Field 2 risers of these new							
T-0466	BGP - Ground	Rod for SFPUC		Closed	03/29/2013	04/08/2013	04/10/2013	Potentiall	у
From: Webcor C	Construction LP	Joanne Filipas	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Webcor C	Construction LP	Joanne Filipas							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
the SF PUC rec provide all nece	he 3/28/2013 OAC, Popularies a ground rod to essary information incligate, and location.	be installed. Please			conductors for attached draw connect to the except for the	r SFPUC utility vings. This grous other building soldier pile con	ounding electrode requirements per inding system sh grounding systen nections. All oth pordinate ground	the all not ns er	



Page: Date:

Job:

475 of 1053 11/05/2013

30100

Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed Jeff Thiel 4/10/2013 Pending TJPA approval, a CR for this work is forthcoming. T-0466.1 **BGP - Ground Rod for SFPUC** 04/11/2013 Closed 04/21/2013 04/23/2013 Potentially From: Webcor Construction LP Lynn Kowallis To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Shimmick Construction Company, Inc Chris Williams REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** 1. Please find the attached drawings to clarify the Ref: RFI T-0466, RFI T-0442 ground rod locations. The ground rods are noted to be SCCI is in receipt of the response to RFI T -0466 approximately ten feet on center. Coordinate the concerning the addition of SFPUC grounding rods/grids. In specific placement of the rods and GEC to avoid the order to price this change SCCI and its electrical geothermal piping. We have included Lower subcontractor need the following information: Concourse drawings to indicate the grounding electrode conductors that will route into the Lower On Drawing SKE-021, Note 8, please provide a location Concourse slab. Exact dimensioning of these on where to terminate each of the four 4/0 cables at the conductors in the foundation wall and slab are not lower concourse slab. A revised SKE-024 drawing required. Contractor to coordinate exact locations with showing the exact stub up locations underground piping in this area. The GEC will be and dimensions is needed to accurately price and extended to bond to a ground grid at the four corners construct this change. of the new Electrical Rooms B1289 and B1441. Additional slab details for the mesh and GEC bonding On Drawing SKE-022, Note 3, please again advise where will be provided in an upcoming drawing issue. to terminate the four 4/0 cables at the lower concourse slab. A revised SKE-024 drawing showing the exact stub 2. Yes, the details from RFI T-442 will apply to these up locations and dimensions is and all grounding conductor penetrations of the needed to accurately price and construct this change. waterproof membrane. See SKE-025 for the connection detail referenced on sheet E1-6006, detail Please confirm that the details from the RFI T -442 response will apply to these penetrations. 3. Yes, the two locations are the only known new Please confirm that there only two areas (detailed on SKE-SFPUC grounding locations. Please note that the ten 021 & SKE-022) that will require the additional SFPUC foot ground rod separation shown on SKE-021R1 at grounding. the transformer vaults has been increased.

T-0466.2

BGP - Requesting Detail 2 on drawing E1-6006

Closed

04/19/2013

04/23/2013

04/29/2013



REQUEST:

Reference Specification: 23 57 34, 31 23 34

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

This is acceptable west of gridline 7.

ANSWER:

476 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

From: Webcor Construction LP Robert Kjome Co-Author: Shimmick Construction Company, Inc Filip Filipic REQUEST: Reference Drawings: SH-5002, SH-2007, SH-2008, SH-3001 SCCI is in discovery that the W21x101 and W14x30 support beams and bokouts at the shoring level B are encroaching into the lower concourse slab between GL 1 and 9.5. TOC for the concourse slab is at EL5.42° (GL 1 thru 9.5); Bottom of W21x101 support beams and W14x30 lookouts are at EL6.25° and -5.67° respectively. Please confirm that these will be removed prior to construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse please provide detailed drawings showing incorporation (or blockout) of these W21x101 support beams and W14x30 lookouts into the lower concourse slab.	lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Ref: RFI T-0466, Drawing E1-6006 Reference is made to RFI T-0466 and the attached sketches. Note I on SKE-022. Note A on SKE-023 and the first note below (Top of Siab -35-8) references a detail on Contract Drawing E1-6006 dene and detail on Contract Drawing E1-6006 dene and the entry of the Contract Drawing E1-6006 dene of the Property of the Contract Drawing E1-6006 dene of the Property of the	Co-Author: Shimr	mick Construction Compa	ny, Inc Ben Gordon							
From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: Shimmick Construction Company, Inc Filip Filipic REQUEST: SUGGESTION: Reference Drawings: SH-5002, SH-2007, SH-2008, SH-3001 SCCI is in discovery that the W21x101 and W14x30 support beams and lookouts at the shoring level B are encroaching into the lower concourse slab between GL 1 and 9.5, ToC for the concourse slab is at EL5.2° and -5.6° respectively. Please confirm that these will be removed prior to construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level acided drawings showing incorporation (or blockout) of these W21x101 support beams and W14x30 lookouts into the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level into the sex will be removed prior to construction of blockout) of these W21x101 support beams and W14x30 lookouts into the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse level. If these struts support support beams and W14x30 lookouts into the lower concourse level. If these struts support supp	Ref: RFI T-0 Reference is sketches. N first note be Contract Dra Rods. The conted detail	0466, Drawing E1-6006 s made to RFI T -0466 an lote I on SKE-022, Note A elow (Top of Slab -35'-8") r awing E1-6006 for the add current drawing E1-6006 d . SCCI requests an update	on SKE-023 and the eferences a detail on ded SFPUC Ground loes not have the	SUGGESTION:		SKE-025 issue specific refere	ed with the RFI nced detail 2 o	response indicate n Sheet E1-6006.		
REQUEST: Reference Drawings: SH-5002, SH-2007, SH-2008, SH-3001 SCCI is in discovery that the W21x101 and W14x30 support beams and lookouts at the shoring level B are encroaching into the lower concourse slab between GL 1 and 9.5. TOC for the concourse slab is at EL5.42' (GL 1 thru 9.5); Bottom of W21x101 support beams and W14x30 lookouts are at EL6.25' and -5.67' respectively. Please confirm that these will be removed prior to construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse please provide detailed drawings showing incorporation (or blockout) of these W21x101 support beams and W14x30 lookouts into the lower concourse please provide detailed drawings showing incorporation (or blockout) of these W21x101 support beams and W14x30 lookouts into the lower concourse please provide detailed beams and W14x30 lookouts into the lower concourse slab. **Pode8** **BGP - Geothermal Pipe Riser in CDSM Wall Excavation Specification** To: Turner Construction Compan Gary Krutsch** **Answere By:Adamson Associates, Inc George Metzge**	-0467	BGP - Lower (Concourse Conflicts		Closed	03/28/2013	03/28/2013	04/01/2013	Potential	lly 🗌
REQUEST: Reference Drawings: SH-5002, SH-2007, SH-2008, SH-3001 SCCI is in discovery that the W21x101 and W14x30 support beams and lookouts at the shoring level B are encroaching into the lower concourse slab between GL 1 and 9.5. TOC for the concourse slab between GL 1 and 9.5. TOC for the concourse slab between GL 1 and 9.5. TOC for the concourse slab beams and W14x30 lookouts are at EL6.25' and -5.67' respectively. Please confirm that these will be removed prior to construction of the lower concourse level. If these struts supports are to remain throughout construction of the lower concourse please provide detailed drawings showing incorporation (or blockout) of these W21x101 support beams and W14x30 lookouts into the lower concourse slab. P-0468 BGP - Geothermal Pipe Riser in CDSM Wall Excavation Specification Closed From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George Metzge	From: Webc	or Construction LP	Robert Kjome	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Turner Constr	uction Comr Jeff T	hiel	
Reference Drawings: SH-5002, SH-2007, SH-2008, SH-3001 SCCI is in discovery that the W21x101 and W14x30 support beams and lookouts at the shoring level B are encroaching into the lower concourse slab between GL 1 and 9.5. TOC for the concourse slab between GL 1 (October 1) (Discourse) SCCI is in discovery that the W21x101 and W14x30 (Discourse) SCCI is in discovery that the W21x101 and W14x30 (SCCI is in discovery that the W21x101 support beams and W14x30 (Discourse) SCCI is in discovery that the W21x101 and W14x30 (SCCI is in discourse) SCCI is in discovery that the W21x101 and W14x30 (SCCI is in discourse) SCCI is in discovery that the W21x101 and W14x30 (SCCI is in discourse) SCCI is in discovery that the W21x101 and W14x30 (SCCI is in discourse between their sub-contractor coordinate this work between their sub-contractor and show the proposed solution in the coordinate show the proposed solution in the coordinate discourse and show the proposed solution in the coordinate this work between their sub-contractor condinate this work between their sub-contractor coordinate this work between their sub-contractor and show the proposed solution in the coordinate this work between their sub-contractor and show the proposed solution in the coordinate disposed and show the proposed solution in the coordinate this work between their sub-contractor condinate this work between their sub-contractor and show the proposed solution in the coordinate show the work between their sub-contractor and show the proposed solution in the coordinate show the work has between their sub-contractor	Co-Author: Shimr	mick Construction Compa	ny, Inc Filip Filipic							
From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc. George Metzge	Reference I 3001 SCCI is in d support bea encroaching and 9.5. TO thru 9.5); Be lookouts are Please conf construction supports are lower conco incorporatio beams and	discovery that the W21x10 ams and lookouts at the ship into the lower concourse loc for the concourse slab in ottom of W21x101 support e at EL6.25' and -5.67' rufirm that these will be remain of the lower concourse le to remain throughout concourse please provide detail on (or blockout) of these W	1 and W14x30 poring level B are slab between GL 1 s at EL5.42' (GL 1 t beams and W14x30 espectively. Devel prior to evel. If these struts instruction of the led drawings showing (21x101 support	SUGGESTION:		This is a contr coordinate this and show the	actor coordinat s work between proposed soluti	ion issue. CM/GC their sub-contract	tors	
, amor constraint company carry reactions and constraints are constraints are constraints and constraints are constraints are	⁻ -0468	BGP - Geothe	rmal Pipe Riser in CDSM V	Vall Excavation Specification	Closed	03/29/2013	04/08/2013	04/08/2013	Potential	lly
Co-Author: Shimmick Construction Company, Inc. Chris Williams	From: Webc	or Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
	Co-Author: Shimr	mick Construction Compa	ny, Inc Chris Williams							

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

477 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Per discussions with the designer (A will continue to move until the mat s With the geothermal pipe riser being of the mat slab, there is a good char chase pour back will be jeopordized movement. Per specification 31 23 3 geothermal riser pipe chase cannot than 10 calendar days. Is it acceptal duration to account for the wall move slab is poured?	lab has been placed. If installed much ahead If ince that the riser If it is installed much ahead If it is installed much ahea							
Please advise.								
-0469 BGP - Embe	d Nail Holes		Closed	04/01/2013	04/11/2013	04/11/2013	Potential	ly 🗌
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick Construction Comp	any, Inc Ben Gordon							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Detail 3/S1-3010, Detail 2,3,6/S 3411, Detail 9,11/S1-7600, Detail 8,	12/S1-7602				uds by minimun	ptable provided the nof AISC bolt ho		
Please reference attached drawings embeds, not all embed drawings are requests to drill 1/4" nail holes in the angles, plates, pit frames and bearir holes shall provide a means to secu formwork and prevent movement du concrete. Nail holes shall be drilled pand shown on shop drawings. Please advise if this is acceptable.	e attached. SCCI e embedded steel ng assemblies. The re embeds to the uring placement of			Submit holes	in shop drawing	s for review.		
-0470 BGP - Concc	ourse Slab Trestle Pile Bloc	k Out	Closed	04/02/2013	04/12/2013	04/11/2013	Potential	lv 🗆

T-0470 **BGP - Concourse Slab Trestle Pile Block Out**

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Co-Author: Shimmick Construction Company, Inc Ben Gordon

Ref: Detail 4, 7/S1-3009, S1-3500, S1-3501, S1-3502

From: Webcor Construction LP

REQUEST:

Lynn Kowallis

SUGGESTION:

ANSWER: **Accept Suggestion:**

Since a block-out for a trestle pile is a temporary condition, it is the contractor's responsibility for this



use AZZ Galvanizing Services and their independent testing agency for shop testing and inspection and to fulfill all requirements described in 05 05 15-3.6 -Testing.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 478 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

				,		,			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	reference attached Contract Dr), S1-3501 and S1-3502. Detail				means and m	ethods issue.			
3009 de trestle p concou detail. T not con	pict the typical mat foundation ile block outs. SCCI is unable to se slab reinforcement and tress he slab detail drawings, S1-350 ain details for the trestle pile blat trestle pile reinforcement and be	reinforcement and o locate a typical tle pile block out 00 to S1-3502, do ock outs. Please				eral Note GR-9 rmation on this	on S-0005 offers topic.	some	
-0470.1	BGP - Concour	se Penetrations Discrepa	ncies	Closed	07/16/2013	07/16/2013	07/29/2013	Potential	ly
From: W	ebcor Construction LP	Jackson Tukuafu	To: Turner Construction Com	npan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: S	nimmick Construction Company	y, Inc Ben Gordon							
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Note GF with the is follow lower co Please	R-9 on S-0005 raises a non cor concourse slab penetration blo ed the minimal clear cover ove incourse slab will not conform to provide rebar details for the cor cions that conform to the specif	estructability issue ockout. If the GR-9 r couplers on the other specifications.			typical Lower and bottom ba reflects incorr	Concourse slab ars with slab scl ect labels. Slab	block-out detail to Contractor to vonedule as the RF owill shall be supntil block-out is fill	erify top I sketch ported	
0.474	DOD Ochowin	to a Taratto a		011	0.1/0.0/0.4.0	0.4/4.0/004.0	04/05/0040	Datastial	
-0471 \	BGP - Galvaniz	0 0	To: Towns Operational Comme	Closed	04/02/2013	04/12/2013	04/05/2013	Potential	iy
	ebcor Construction LP nimmick Construction Company	Lynn Kowallis	To: Turner Construction Com	npan Gary Krutsch	Answered by	Adamson Ass	ociates, Inc Geor	ge Metzger	
	·	y, inc ben doladii					. —		
REQUE		. A	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Specification Section 05 05 15 3.6 A Section 3.6 A of 05 05 15 -Hot Dip Galvanizing calls for "the contractor's testing laboratory shall perform inspection and testing of zinc coatings under the guidelines outlined in the American Galvanizer's Association (AGA)." Per the hot dip galvanizing pre-installation meeting, SCCI plans to					service compa appropriate. I obtain approv	any and contrac It is not required al by a TJPA Ro	ne if the galvanizi ctor's testing ager I in the specificati epresentative of t and contractor's	ncy are ion to he	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeonobayasiii Joint Ventare

Page: Date: 479 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Procee
	onnel qualifications are available e confirm this is acceptable.	upon request.							
-0472	BGP - Future 1	Frain Platform Wall Conflict wi	th Trestle Pile Opening	Closed	04/02/2013	04/16/2013	04/15/2013	Potentiall	ly
From:	Webcor Construction LP	Ian Corcorran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:	Shimmick Construction Compar	ny, Inc Ben Gordon							
	JEST: Dwg: S1-2054, S1-2055, 1/S1-32	05	SUGGESTION:			Accept Suggers orm dowels that I in the RFI shall	coincide with tre	estle	
for the dowel at the S1-20 the tre thus o	sheets S1-2054 and S1-2055 de e train platform which per detail 1 is E.F. at 8" O.C. with a formsave top of the mat slab. When refere 155 it is noted that in 14 locations eastle pile are shown directly on to conflicting with the required dowe er detail at these blockouts.	J/S1-3205 receive #7 er coupler positioned encing S1-2054 and s the openings for op of this future wall			,				
-0473	BGP - Modifica	ations to Geothermal Layout		Closed	04/02/2013	04/12/2013	04/09/2013	Potentiall	lv 🗀
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Compan	Garv Krutsch			ociates, Inc Geor		,
Co-Author:	Webcor Construction LP	Robert Kjome	,	,	•		, , , , , , , , , , , , , , , , , , , ,	gg-:	
REQU		·	SUGGESTION:			Accept Sugg	gestion: en geothermal pi	pe	
of loop effort struct	heet Note 3 on M-0006, the centrops can be adjusted where conflict to relocate geothermal piping as ural conflicts without multiple suffer provide minimum distance allo	ets occur. In an needed to avoid omissions of RFI's,			loops is 4'-0".				
	ilt of the installed geothermal pip completion of the system.	oing will be provided							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

480 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

Numbe	r Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Γ-0474	BGP - Micropile	Penetration Detail at Sump	o Pits	Closed	04/02/2013	04/02/2013	04/04/2013	Potential	ly
F	rom: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan Gary	Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Au	thor: Webcor Construction LP	Robert Kjome							
F	REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
F	Refrence Specification: 31 63 33 Reference Drawing: A1-8711 Reference Photos: Attached					drawing based	on the waterproduced ons for this cond		
\ \$ \$	See attached photos of micropiles W02 W043 located in sump pits on an angle. shows a micropile penetration detail on surface. Please provide a micropile pen micropiles located in a sump pit on an a	Sheet 2/A1-8711 a horizontal etration detail for							
Γ-0475	BGP - Mat Slab	Drainage Sloping	,	Closed	04/03/2013	04/17/2013	04/04/2013	Potential	ly 🗌
F	rom: Webcor Construction LP	Ian Corcorran	To: Turner Construction Compan Gary	Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Au	thor: Shimmick Construction Company	, Inc Ben Gordon							
F	REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
F	Ref. Spec: 03 30 20.3.6.B.1.b						slopes to drain or	n the	
	Contract specification section 03 30 20. Slope surfaces uniformly to drains whe				Mat Slab. The	top of slab is ur	niformly -35 -8".		
(a i	However, the contract plans for the belot TG06.0), does not show drainage slope SCCI intends to uniformly place top of Nas shown on contract drawings. If slopings required, please provide drainage plasslab.	e for the Mat Slab. Mat Slab at -35' - 8" ng of the Mat Slab							
Γ-0476	BSE - Zone 4 W	aler Connection Criteria	•	Closed	04/03/2013	04/13/2013	04/05/2013	Potential	ly 🗌
F	rom: Webcor Construction LP	Lynn Kowallis	To: Turner Construction Compan Gary	Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Au	thor: Balfour Beatty Infrastructure, Inc.	Danny Walsh							
F	REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
t	BBII has received COM1902 directing E he east end shoring utilizing similar wa provided in the attached sketches.				1111.	-	Note 11 on Shee		
Prior to commencing re-design, BBII requests the				Regarding the to RFI T-0345		ness, see the re	sponse		
	ollowing information from the Shoring v Bracing EOR can properly evaluate the				Regarding the	CDSM wall allo	wable friction, se	e the	



REQUEST:

Ref. Dwg. 2/S1-3005, 3/S1-3008, and S1-2063

Sheet S1-3005/Detail 2 specifies the typical top clear

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

481 of 1053 11/05/2013 10:53 AM

Time:

Job: 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion: Top clear cover for headed shear reinforcement that is

overall length of the headed shear reinforcement shall

located within a pit shall be 2.25", such that total

JOINI VENTUR	E		30100 - Tra	ansbay Irans	sit Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Will it be permissib transverse end wa wall (A&J Lines)? there are any limita					response to RFI T-0427. To evaluate horizontal stress, see the guidan provided on Sheet GT-1110			e	
T-0477	•	·	ow Grade Obstruction)	Closed	04/03/2013	04/13/2013	04/04/2013	Impact Proceed the the guidance D4/04/2013 Potentially the ates, Inc George Metzger Stion: the guidance Stion: the guidance W475, W487, W488,	
From: Webcor Con	struction LP	Lynn Kowallis	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Balfour Beat	ty Infrastructure, Inc.	Brandon Miller							
REQUEST: Ref: Submittal TG0300-622.4 While installing Micropile W454 as laid out in the a submittal, BBII encountered a concrete obstruction below grade and was unable to continue drilling at location. Even though the micropile layout was app in submittal TG0300-622.4, BBII suspects the drill encountered the CDSM Prototype wall as approxim shown in the attached drawing. BBII suggests relot the micropiles as shown in the attached drawing to the obstruction. The proposed locations for the mic relocations will be within the geothermal area; how the proposed locations do not appear to impact geothermal piping. See attached sketch. Please confirm this is acceptable.		bstruction 8' drilling at that it was approved is the drill rig approximately gests relocating drawing to avoid or the micropile area; however,	SUGGESTION:	ON: ANSWER: Accept Suggestion: Thornton Tomasetti does not object to micropiles W452, W454, W473, W475 and W500 as proposed.					
	PATS BGP - Shear Reinforcement Clear Cover as From: Webcor Construction LP Ian Corcorran Co-Author: Shimmick Construction Company, Inc. Andy Khuu			Closed ompan Gary Krutsch	04/03/2013 Answered By	04/17/2013 У :Adamson Asso	04/10/2013 ociates, Inc Geor		ly

SUGGESTION:



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

482 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

lumber <u>Subject</u>			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
cover for the headed shear reinforceme for overall length of the headed shear re 57" long. It is not clear if the same clear applies to headed shear reinforcement as shown in Sheet S1-3008/Detail 3. No rebar around the pits are called out to b sheet SI -2063. Please confirm top clear cover for head reinforcement that is within a pit.	einforcement to be cover of 0.75" that is within a pit ote that typical e 3" as shown on			be 55.5" long	ns.			
	n pile in MAT Depressions	To To the second	Closed	04/03/2013	04/17/2013	04/17/2013	Potential	у 🗌
From: Webcor Construction LP Co-Author: Shimmick Construction Company	lan Corcorran Inc Ben Gordon	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
REQUEST: Ref. Dwg. S1-2022, S1-2027, S1-3004, Please reference Sheets S1-2022, S1-2 S1-3006 of the Contract Plans. The tres D.4 between 4 and 5 is located in the sl mat slab depression (see highlighted S slab depression section plans (S1-3006 incorporate this type of sloped pipe pen Furthermore, the pin pile between Gridl east of 34 is located in the sloped section depression (see highlighted S1-2027). depression section plans (S1-3004) do type of sloped pipe penetration. Also, S depicts all pipe penetrations on a horizo Please provide a trestle/pin pile penetra on an angle in a mat slab depression in revised waterproofing detail.	2027, S1-3004, and stle pile at Gridline oped section of the 1-2022). The mat) do not etration. In F.7 and G, just on of the mat slab The mat slab not incorporate this heet S1-3003 ontal surface only. It in the state of the mat slab ontal surface only.	SUGGESTION:		slope or on fa lowered to pro waterproof me depression fo The sleeves v situations. Re	ce of slope, the ovide 18" clear hembrane transition the sleeve showill need to be mader to attached \$7/2013 Pending	b depression edg flat mud slab has orizontal to allow on. The sides of tuld be sloped at a ade longer to sui SKA 2676 and 26	to be he 45 deg. t these 77.	
-0479.1 BGP - Trestle ar	nd Pin Pile in MAT Depressio Robert Kjome	on Clarification To: Turner Construction Co	Closed	05/28/2013	06/07/2013	06/10/2013 ociates, Inc. Geor	Potential	у 🗌

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

483 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

Response to RFI T-0479 provides SKA-2676 and SKA-2677 which apply to two trestle piles in conflict with sloped portions of sump pits. BBII has identified several other pit locations which appear to have trestle piles, pin piles, or bridge piers located so that there is not 18" clear horizontal for waterproofing. Please clarify if the following slab penetration locations require the 18" clear horiontal for waterproofing. If so, please confirm that the details issued in RFI T-0479 can be used for the following locations:

- 1.) First St. Bridge Pier #5 at pit between Gridlines 17/18 at Gridline H
- 2.) Trestle Piles #53, #54, and #55 at pit between Gridlines 22.5/23.5 and D/F
- 3.) Fremont St. Bridge Pier #8 at pit between Gridlines 26/27 at E
- 4.) Trestle Pile #74 at pit between Gridlines 30/30.5 and D/F.
- 5.) Trestle Pile #80 at pit between Gridlines 32.5/33 and D/E
- 6.) Beale St. Bridge Piers #3 and #8 at pit between Gridlines 34/35 at Gridline E
- 7.) Pin Pile # 6 between Gridlines 4/5
- 8.) Pin Pile #14 between Gridlines 34/35 and F.7/H

The Design Team does not object to the contractor implementing the solution provided on RFI T-0479 at the locations mentioned in RFI T-0479.1 as a means of attaining the required 18" clear horizontal waterproofing surface. Note for implementation of this detail at pin pile locations, the contractor shall use 24" as the outside diameter of the pin pile sleeve, which is the size from the reviewed sleeve submittal.

T-0479.2	BGP - Trestle and Pin Pile in MAT Depression Clarification
1-04/3.2	bor - riestie and i iii i lie iii MAI Depression Clarification

Robert Kjome

Closed

07/28/2013

07/24/2013

Potentially

Co-Author:

REQUEST:

Reference RFI T-0479 & T-0479.1

From: Webcor Construction LP

Grace requires that there be a minimum 8" clear horizontal to allow for the waterproofing membrane transition.

For trestle piles and pin piles located at slab depressions at the edge of the slope or on the face off the slope. please confirm that the flat mud slab can be lowered to provide 8" clear horizontal to allow waterproof membrane transition in lieu of the 18" described in RFI T-0479 and T-0479.1

07/18/2013

ANSWER:

Answered By: Adamson Associates, Inc George Metzger

Accept Suggestion:

SUGGESTION:

To: Turner Construction Compan Gary Krutsch

This RFI is for a substituted system that is not the system designed by the Architect, so the Architect cannot comment on design intent or other aspects of the substituted system. Per specification section 01 16 30 article 1.4/B and other associated specification sections the Contractor is to prepare all necessary documentation to support the contractor's substitution proposal which would include direction on the item noted in this RFI.

The Contractor should have the design professional



Ref Dwg. A1-2842-2851

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

George Metzger 4/11/2013 It is not acceptable to post-core (or post-drill) penetration into the lower

484 of 1053 11/05/2013

Time:

10:53 AM 30100

JOINT VENTURE	30100 - Transbay Transit Center Project										
Number S	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
					responsible for the substituted waterproofing design: (1) immediately prepare necessary design documentation for the substituted system including the impacts on adjacent trades as required by specification section 01 16 30 article 1.4/B.5, and stamp and certify that design to the Owner and the Architect; and (2) respond to Contractor submittals and manufacturer questions about the substituted system (with copies to the Owner and the Architect). Until that design professional's documentation, certification, and response process is in place, the Contractor should confirm all waterproofing system questions and details with the waterproofing manufacturer (with copies to the Owner and the Architect).						
T-0480 E		Platform Wall Dimension	n Conflict To: Turner Construction Compan	Closed	04/03/2013 Answered B	04/17/2013	04/16/2013 ociates, Inc Geor	Potentia an Motzgor	lly		
Co-Author: Shimmick Constru			Turner Construction Compan	Gary Kiutsch	Allowered B	•Auamson Assi	ociates, inc Geor	ge ivietzger			
REQUEST: Ref. Dwg. S1-2054, S1- Drawing S1-2054, at Gri Platform Room Walls to 2055, at Grid line C/22 of Walls to be 1'- 0" Typ. Udimension of the Future	2055 id line E/13 calls out be 1'- 2" Typ, UNO. calls out Future Trair JNO. Please clarify t	Future Train . Drawing S1- n Platform RM he proper	SUGGESTION:		apply per zor platform walls S1-2054 and S1-2055. No train platform	e sheet. Thereft are confirmed to be te that for S1-20 rooms - one at	gestion: or room wall thic ore the future trait to be 1'-2" typ UON on 1'-0" typ UON on 155, there are 2 fugridline C between E west of 19.9.	n DN on sheet Iture n 21			
T-0481 B From: Webcor Construct		lab Penetration Sleeves	To: Turner Construction Compan	Closed Gary Krutsch	04/08/2013 Answered B	04/18/2013 y :Adamson Asse	04/12/2013 ociates, Inc. Geor	Potentia ge Metzger	lly		
Co-Author: Shimmick Constru	uction Company, Inc	Ben Gordon	·								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				



practice but will mitigate if not eviscerate the unquantifiable liability. WOJV recommends, at a

Webcor/Obayashi Joint Venture

The state of the s

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

485 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

			•		,			
umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
In SCCI's experience unanticipa adjustments to the plumbing system and the second seco	stem are inevitable. not installing vertical block yel for plumbing prior to e penetrations after the e scanned for rebar prior to ear strikes. This will allow s or adjustments and y or extra penetrations in			the Structural coordinate pe embedded as specifications	Engineer of Remetrations with one semblies in con. Post-installed	e specifically appropriet. Contractor other trades and crete as required all be submitted for	shall by	
-0482 BGP - Pa	rtition Wall Pier Height		Closed	04/05/2013	04/15/2013	04/17/2013	Potential	ly 🗌
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmick Construction C	ompany, Inc Ben Gordon	·	·	-				
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawing: S1-9050 Please reference attached shee A1-9217 regarding partition wall shows an h max of 24'8" for wal A1-9216, and detail B on sheet showing piers at a height of 27'2 SCCI is requesting clarification reinforcement as well as openin	piers. Detail 9 on S1-9050 I piers. Detail A on sheet A1-9217 appear to be " and 28'11" respectfully. with pier height regarding			opening width thick pier shal	of 6'-5", a 2'-0"	eight of 28'-11" ar min wide X 1'4" n C EF vertical bars tail 9/S1-9050.	nin	
	equest for reinstatement of a sma	ller high congestion mock-up.	Closed	04/05/2013	04/15/2013	04/17/2013	Potential	ly
From: Webcor Construction LP	Lynn Kowallis	To: Turner Construction Compa	n Gary Krutsch	Answered By	Turner Constru	uction Comp Stacy	/ Wilson	
Co-Author: Webcor Construction LP	Kirk Nielsen					_		
REQUEST:	_	SUGGESTION:		ANSWER:	Accept Sug			
Ref: S1-3202, S1-2204, S1-320 Via CCO #0035 the TJPA unilat the high congestion mock-up ar maintains that the inclusion of a congestion (Exhibit-A) is not onl	erally deleted Bid Item #14 d disposal. WOJV mock-up for areas of high				on 4/15/2013. T	een Kirk Nielson a his RFI is conside		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 486 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed

minimum, reinstating a high congestion mock-up configured as follows:

- 1. The area to mock-up is indicated on marked up sheet S1-3202 (Exhibit-B).
- 2. The mock-up is representative of the location marked up on sheet S1-2204 (Exhibit-C) and configured as indicated on marked up sheet S1-3201 (Exhibit-D).
- 3. The mock-up is dimensioned as indicated on marked up sheet S1-3208 (Exhibit-E).

Please issue drawings for a smaller high congestion mock-up that the TJPA deems appropriate, if not indicated on the attached sheets.

T-0484 BGP - Water Welding Test

From: Webcor Construction LP Robert Kjome

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

Reference Specification:05 50 10- 2.5.C.2

Per the discussions held at the Metal Fabrications Preparatory DFOW meeting, SCCI is requesting a variance from Spec Section 05 50 10 - 2.5.C.2. This Spec. is feasible in a shop environment prior to galvanization and an effective means to dry and remove water upon completion of testing. These sleeves will be continuously welded in the field both before and after the horizontal waterproofing is installed (depending on the type of sleeve), therefore making it very difficult to seal and handle the water upon completion of the test. Discussions were held regarding leaving the water between the sleeve and pile and evaporating over time. SCCI sees this as a concern due to the backside of the weld and the heataffected zone will not be galvanized and will potentially become a point of corrosion. SCCI requests 100% visual inspection on both the root and cover passes in lieu of filling the sleeve gap with water. Is this request and variance acceptable?

Closed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

04/05/2013

04/15/2013

04/18/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

The sleeve joints are to be water tight. Water testing of welds as required in the specification is to be executed. Please submit a test procedure description.



From: Webcor Construction LP

Co-Author: Shimmick Construction Company, Inc Filip Filipic

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

487 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

30100 - Transbay Transit Center Project

From: Webcor Construct Co-Author: Shimmick Construct REQUEST: Reference spreadsheet Please reference attack contract drawings. Base - G-0006 issued F.O. 19 more current revision the Please issue the update From: Webcor Construct Co-Author: Shimmick Construct REQUEST: Reference Specification	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proces				
Г-0485	BGP - SCCI Is	ssued Drawings		Closed	04/08/2013	04/18/2013	05/02/2013	Potential	ly 🗌				
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Turner Constru	ction Comr Jeff	Γhiel					
Co-Author: Shimmick C	onstruction Compa	ny, Inc Ben Gordon											
Reference spreads Please reference a contract drawings G-0006 issued F more current revis	Reference spreadsheet: See attached. Please reference attached spreadsheet of SCCI missing contract drawings. Based on drawing index sheets G-0000 - G-0006 issued F.O. 15 there are 33 sheets that have a more current revision than what we have been issue. Please issue the updated drawings referenced. BGP - Extended Time for Concrete Deliving From: Webcor Construction LP Robert Kjome -Author: Shimmick Construction Company, Inc Ben Gordon REQUEST: Reference Specification: 03 30 20 Please reference 03 30 20.3.3.0, which states "Discharge		SUGGESTION: dsheet: See attached. attached spreadsheet of SCCI missing s. Based on drawing index sheets G-0000 F.O. 15 there are 33 sheets that have a ision than what we have been issue.				ANSWER: Accept Suggestion: Reference CR T-068 for the current revisions of requested drawings. Also, note that drawings S1-3360 through S1-3363 do not exist; drawings S1-3660 through S1-3663 have been provided.						
Г-0486	BGP - Extend	ed Time for Concrete Delivery		Closed	04/08/2013	04/18/2013	04/16/2013	Potential	ly 🗌				
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger					
Co-Author: Shimmick C	onstruction Compa	ny, Inc Ben Gordon											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:						
Please reference of the concrete shabefore the drum had comes first, after the cement and aggree to the aggregates. Per ASTM C 94, the waived by the pure or slump flow after has been reached addition of water, the mixes; the retarding the project's mild of placing concrete a quality of the concextension of delivered.	203 30 20.3.3.0, which all be completed with as revolved 300 revibed introduction of the gates or the introduction of the gates or the introduction of the series of the concretation of the batch. Based to the batch. Based on geffects of admixth climate; CEMEX doubter 90 minutes negative.	ithin 1 1/2 hrs, or volutions, whichever he mixing waler to the uction of the cement experiment be permitted to be eate is of such slump or 300-revolutionlimit ed, without the d on the quality of the ures and SCMs, and less not believe that gatively affects the MEX requests an			completed wit revolved 300 the introduction aggregates or aggregates." CEMEX's state believe that provide sufficient of the concrete and revolution time/revolution batches to properform necestion.	thin 1 1/2 hour or revolutions, which on of the mixing or the introduction in the introduction i	of the concrete" of the specified timestify extending the MEX shall run trid delivery time and set time, slumps quality of the co	n has st, after ent and o the not does not concern le limit le mix al od,					
Please confirm the	e attached paramet	ers are acceptable?											
Г-0486.1	BGP - Extene	d Time for Concrete Delivery - I	Mat Slab	Closed	05/06/2013	05/16/2013	05/12/2013	Potential	ly 🗀				

To: Turner Construction Compan Gary Krutsch



Please confirm that the vertical rebar size and spacing of

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

488 of 1053 11/05/2013

Time: 10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	<u>Procee</u>	
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Pursuant To attached le Cemex has time at whice mixes 1556 referenced	Specification: 033020 JPA's response to RFI T-04 tter from SCCI's concrete si performed the set time tes ch at which the onset of hyd 034 and 1558218. For the fi herein, is it acceptable to e es to 2 hours?	upplier Cemex. t to evaluate the tration occurs for two mixes			acceptable as the tested mix It is not clear t mix designs fo assume the RI and not any ot only applies to	extending the concrete delivery to 2 hours is exceptable as proposed in RFI T-0486 provided that he tested mixes match approved mix designs. It is not clear that the tested mixes were the approved hix designs for the mat and foundation wall (we sume the RFI means 3'-0" exterior foundation wall had not any other wall or shearwall and our response haly applies to this item) as the mix numbers and/or he mix descriptions do not match any approved mix				
-0486.2	BGP - Extende	d Time for Concrete Delivery	- Mat Slab	Closed	05/28/2013	06/07/2013	06/03/2013	Potential	ly	
From: Webo	cor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger		
Co-Author: Shim	mick Construction Compan	y, Inc Ben Gordon								
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Pursuant T	RFI: T-0486 JPA's response to RFI T-04 tter from SCCI's concrete s						concrete delivery 486 for mat slab r			
time at which	performed the set time tes ch at which the onset of hyd 204 (Mat Slab Mix).									
	referenced herein, is it acc e delivery times to 2 hours?									
-0487	BGP - Structura	al Pier Reinforcement Detail		Closed	04/08/2013	04/18/2013	04/22/2013	Potential	ly 🗌	
From: Webo	cor Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	_	
Co-Author: Shim	mick Construction Compan	y, Inc Ben Gordon								
REQUEST: Ref: A1-92	: 15, 9/S1-9050		SUGGESTION:		ANSWER: Confirmed.	Accept Sug	gestion:			



Ref: S1-2202

which depicts:

Please reference the attached marked up sheet S1-2202

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

The proposed solutions to move Lower Concourse permanent structure to avoid trestle conflicts are not

acceptable. Blockouts for temporary conditions are the responsibility of the Contractor. Refer to general

489 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

				•		•			
to the structural dimensioned as dimensioned as series of the control of the cont	Subject			Date Answered	Cost Impact	Procee			
to the structi	EF (as shown on Detail 9 ural pier between GL 4 an d as 2'-0" x 2'-0"(A1-9215)	d 5 which is							
T-0488	BGP - Handlin	g HVFA Test Cylinders- M	at Slab	Closed	04/08/2013	04/18/2013	04/17/2013	Potentiall	у 🗌
From: Webco	From: Webcor Construction LP Lynn Kowallis To: Turner Construction-Author: Shimmick Construction Company, Inc. Ben Gordon			oan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimn	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Ref: Specification Section 03 30 20 1.7 F 3 j 2 ASTM C 31						o the delay of ha sed in RFI 0488.		
be transport ASTM C 31, Typically tes hours after c this project i high dose of combination slow strengt results, SCC cylinders rep 25% flyash a admixture be Protection a direct accord	Identifies that concrete cysted until at least 8 hours at Allowable field curing is at cylinders are transported casting. Some of the mix of include High volume of Flyf Shrinkage Reducing Admin provides a concrete mix of the gain. In the interest of polland CEMEX requests the presentative of concrete mand/or addition of shrinkage delayed until 3 to 5 days and storage of cylinders in dance with requirements of the storage of the storage of fields.	fter final set. Per 48 hours maximum. d within 24 to 48 designs approved for rash (HVFA) and nixture (SRA). This with retarded set and roviding reliable test nat transporting of nixes that include ge reducing after casting. the field shall be in putlined in section 10							
T-0489	BGP - Propos	ed solutions to trestle pile	/ concourse level beams (not depi	cted in t Closed	04/09/2013	04/19/2013	04/18/2013	Potentiall	у 🗌
From: Webco	or Construction LP	Lynn Kowallis	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	-
Co-Author: Webco	or Construction LP	Kirk Nielsen							
REQUEST:					ANSWER:	Accept Sug	gestion:		



REQUEST:

Per discussions following the Turner BSE Progress

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Accept Suggestion:

It is acceptable to backfill horizontal loop trenches

ANSWER:

490 of 1053 11/05/2013 10:53 AM

30100

Time:

JOINI VEN	TURE		30100 - Trai	nsbay Trans	sit Center	Project	- -		
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
1. Trestle pile 46"h) beam be proximity conf a. Relocate trestle pile? b. Skew the 3/D.4 and 4/D 2. Trestle pile 44"h) beam be proximity conf cantilevering ti Please advise From: Webcor Co-Author: Balfour land to be seen to provious	when the B77 beam so that it runs in between cols. In d 4/D? le pile #6 conflicting with the line E.6 B45 (30"w x am between lines 4 & 5. In order to avoid the y conflict may we relocate the B45 South, thereby being the slab, in order to clear the trestle pile?			note GR-9 on S-0005 for ad regarding blockout guidance S-0005.					
T-0490	BSE - Multiple Mi	cropile Relocation (Tre	estle Overhead Obstruction)	Closed	04/09/2013	04/19/2013	04/16/2013	Potential	ily
	or Construction LP	Lynn Kowallis	To: Turner Construction Com	ipan Gary Krutsch	Answered E	By:Adamson Ass	ociates, Inc Georg	ge Metzger	
	r Beatty Infrastructure, Inc.	Kelly Phariss							
	-622.4		SUGGESTION:				object to relocating	ıg	
installed as la obstruction. I south to prov support to ea locations will do not appea	opiles underneath the trestle aid out due to an overhead s BBII suggests relocating the ride 4' of clearance from the ach micropile. The proposed be within the geothermal are to impact geothermal pipin	trut support se micropiles overhead strut micropile ea; however, they			tnese microp	oiles as proposec	1.		
Please confir	rm this is acceptable.								
T-0492	BGP - Backfill of	Geothermal Pipe	_	Closed	04/11/2013	04/21/2013	04/23/2013	Potential	lly
	or Construction LP	Lynn Kowallis	To: Turner Construction Com				ociates, Inc Georg		, _—
Co-Author: Shimm	ick Construction Company,	Inc Chris Williams		,			,	,	

SUGGESTION:



statement certifying that form release agent used is compatable with susequent architectural finish materials

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

491 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
b: b: u w ai	deeting with the geothermal designer, it is acceptable to ackfill and compact the continuous loop after having een installed in the trench. This backfill is contingent pon the ends of the loop being left exposed for the loop relds to the manifold. Backfill over these welded joints and manifold will not be completed until the 100 psi hydro est is complete.			after pneumati	c test of individ	ual horizontal loop	os.	
F	Please confirm this is acceptable.							
-0493	BGP - Geothermal Loop Spacing Tolerances	s	Closed	04/11/2013	04/21/2013	04/16/2013	Potential	lly
Fr	om: Webcor Construction LP Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	je Metzger	
Co-Aut	hor: Shimmick Construction Company, Inc Chris Williams							
R	er the Engineer response to a WOJV RFI, the	SUGGESTION:		ANSWER: Confirmed, 20 and Loop 6, is		gestion: tween Field 1, Loo	эр 5	
gi di th si al R P	eothermal loop spacing cannot exceed 4'. Per iscussions after the progress meeting today (4/10/13), the 5th and 6th loops in field 1 are acceptable with a pacing of 20". This exception is for this location only and all further exceptions are to be submitted under a seperate of 1. If at the time of the layout. The second is acceptable at 20".			cannot exceed referenced RF	l 4' is incorrect.	that the loop spac The Response to I: The Minimum Di os is 4'-0".		
-0494	BGP - Formwork- Form Release Compatabil	ity Certification	Closed	04/11/2013	04/21/2013	04/16/2013	Potential	lly
Fr	om: Webcor Construction LP Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	je Metzger	
Co-Aut	hor: Shimmick Construction Company, Inc Ben Gordon							
R	EQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ef: A1-9601 through A1-9606 pecifications Section 03 10 00.1.3.B.6			After May 30,	2013 the "draft	ently being prepare in-progress" sched to an RFI issued a	dules	
	lease reference specifications section 03 10 00.1.3.B.6. ection states contractor shall submit for record a written			time.	·			



vertical concrete inserts on the lower concourse level

1. A1-2843 has specified two contradicting lengths for the continuous vertical wall inserts as shown in the clouded

foundation walls. The following issues have been

discovered in the drawings:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 492 of 1053 11/05/2013

Time:
Job:

foundation wall at B2 (Train Platform) level. Refer to

clarification on the attached sketch SKA-2689, which corresponds to sheet A1-2842 for concrete inserts at

3. Clarification notes have been added to SKA-2693.

the B1 (Lower Concourse) level.

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
A1-9606, is drawing pac finish sched subsequent cannot comp	oncrete surfaces. Drawing the room finish schedule, kage does not include the ule drawings. Without kno architectural finish, Shimroly with the above mention ide a room finish schedule can comply with the abo	however the TG06.0 e above mentioned owledge of the mick Construction ned specification. e so that Shimrnick							
T-0494.1	BGP - Architec	ctural Finish Schedule		Closed	06/03/2013	06/13/2013	06/10/2013	Potential	ly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Shimn	nick Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Per attached RFI response T-0494, please provide SCCI with an architectural fin ish schedule.						raft Room Finish	n Schedules for SKA-2726 and		
T-0495	BGP - Founda	tion Wall Concrete Inserts		Closed	04/12/2013	04/22/2013	04/24/2013	Potential	
From: Webco	or Construction LP	Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Shimn	nick Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Request: Ref: A1-2812, A1-2821 A1-2842, A1-2843, A1-6231 Please reference the attached drawings regarding foundation wall concrete inserts. SCCI is requesting details clarifying the locations and scope of the horizontal concrete inserts on the mat slab level foundation walls and				length of the S clarification or corresponds to	South foundation the attached skots sheet A1-2843	etch SKA-2690,	, which		



would not be compromised. Please review and advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

493 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Tranchay Transit Contar Project

JOINT VEN	sections. 2. A1-2812 and A1-2842 appear to indicate inserts along the West wall however there is no information declaring lengths and scope. 3. A1-2821 references detail 3 / A1-6231 which is not a detail that is shown on A1-6231. BGP - Deneef Swellseal at Micropile Bo		30100 - Transbay Transit Center Project								
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed		
2. A1-2812 a the West wa lengths and 3. A1-2821 i	all however there is no info scope. references detail 3 / A1-62	ormation declaring		nsert has been ad s to A1-2820.	31. Also, starting as been added on 2820. 2688, SKA-2689, d SKA2693 are heir						
Г-0496	BGP - Deneef Swellseal at Micropile Boots			Closed	04/11/2013	04/25/2013	04/26/2013	Potential	lly		
	From: Webcor Construction LP lan Corcorran		To: Shimmick Construction Comp Ben Gordon Answered By: Adamson Associates, Inc G			ociates, Inc Geor	ge Metzger				
	nick Construction Compar	ny, Inc Ben Gordon									
	A1-8711		SUGGESTION:		ANSWER: The design to	Accept Sug	gestion: ect to your propo	sal.			
Drawings an Detail 2 of A galvanized s adhesive an #TG0600-02	nd the attached letter from 1-8711 calls for a 6" diame steel boot to be adhered w and filled with urethane seals 24 approved the use of De	Deneef/Grace. neter, 18 ga. vith trowelable grade ant. Submittal eneef Swellseal WA									
The attached Deneef/Grace technical letter dated 04/05/13, states that filling the entire boot with Deneef Swellseal is excessive and state that filling the entire boot with Swellseal WA is more than necessary and affect the curing capability.											
deep and to Set CT Cons contain it in waterproofin	ce suggests that the mate pped with a non-shrink gro struction Grout" or "Rapid the boot. The manufacture g ability of the material in	out such as "Rapid Set Cement All" to er states that the this configuration									



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 494 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Proced		
-0497	BGP - C29 Co	lumn Detail Clarification		Closed	04/17/2013	04/27/2013	04/22/2013	Potentially		
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Krutsch Answered By: Adamson Associates, Inc			rge Metzger		
Co-Author: Shimmick C	Construction Compa	ny, Inc Andy Khuu								
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion:					
Reference Specifi Reference Drawin		50, S1-2030, S1-3303				reference for C2 tead of 1/S1-33	29 should referei 03.	nce		
the rebar elevation appears to be for	Al-2853 column C2	29. Detail I/SI-3303 hrough the ramp and								
Please confirm if l detail for column (Detail 1/SI-3303 is t C29.	he correct elevation								
-0498	BGP - Waterp	roofing Mock Up		Closed	04/18/2013	04/18/2013	04/25/2013	Potentially		
From: Webcor Cor	nstruction LP	Kody Cooper	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger		
Co-Author: Shimmick C	Construction Compa	ny, Inc Ben Gordon								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Specifi	ication: 07 12 10 - 1	.6.C.2			It is suggested, but not a requirement, the mock-up is installed separate from the work to allow the mock-up					
representative/ins mock up of the ful	g manufacturer's fiel staller are to constru Il waterproofing asso	ct a 10'x10' on site embly. Upon			to be reference	ed in the future. work has some	r work to allow the mock-up ure. Installing the mock-up me benefits in uncovering			
completion of the mock up (excluding any major waterproofing deficiencies), SCCI intends to utilize it as part of the permanent structure. Is this acceptable?					the proposed submitted to the mock-up the shop draw constructed with may need to be materials base.	materials to be the design team shall utilize the tring process. If the the wrong made reconstructed and on the TJPA as to the accep	o the waterproof used have not be for review at this materials confirm the mock-up is aterials, the moc with the proper Representative's tability of the ma	een stime. ned in sk-up		
					The overall w immediately, i be replaced if	aterproofing wo	to be constructed to may not happe e mock-up may protected until selected.	en need to		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

495 of 1053 11/05/2013 10:53 AM

30100

Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0499	BGP - Geothe	rmal Manifold Location for F	ields1 & 2	Closed	04/18/2013	04/28/2013	04/25/2013	Potentiall	у 🗌
From: Webcor	Construction LP	Kody Cooper	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Shimmi	ck Construction Compa	ny, Inc Chris Williams							
REQUEST: Reference Dr. Per the contra an elevation r elevation. Per meeting and o planned to ha Attached is ar Please confirm	·	d is to be located at vinish grade (street) eparatory DFOW ngs, the Engineer scific location. Field 1 & 2 Manifolds. ation details work	SUGGESTION:		foundation wa Please submit	Il is acceptable t	trations through for loop fields 1 attions for all furth	ınd 2.	
Г-0500	•	le Blockouts in Mud Slab		Closed	04/18/2013	04/28/2013	05/01/2013	Potentiall	у 🗌
From: Webcor	Construction LP	Kody Cooper	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc. Kelly Phariss REQUEST: Reference Specification: 03 30 00 In mud slab pour 1, micropiles W154, W154R1, W127, W236, and W236R1 are all blocked out. BBII would like the option to pour back the blockouts with 4,000psi neat grout (mix approved for installation of micropiles) or the approved 2,500psi concrete. Please confirm that either option is acceptable.			SUGGESTION:			ieu of 2500psi c	gestion: object to using 4 oncrete for filling		
Γ-0501	BGP - Slide B	earing Connection details		Closed	04/18/2013	04/28/2013	04/30/2013	Potentiall	v 🗆
From: Webcor	Construction LP	Kody Cooper	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	·
Co-Author: Shimmi	ck Construction Compa	ny, Inc Jesse Dillon							
REQUEST: Reference Drawings: S1-3204 and S1-3205 The two drawings detail the slide bearing assemblies at the east wall and vehicle/bike ramp. Detail 9-A on S1-3204 does not detail how the 10 gauge carbon steel plate is connected to the bottom support. Similarly, Details 2,3,6 and 7 on S1-3205 do not detail how the assemblies are			SUGGESTION:		weld with 1" m 10 gauge carb support. Details 2 & 3 0	nin at each corne non steel plate a non S1-3205: For	gestion: 24"OC max 1/8" er along each sic ttachment to the 16ga plate to er 2" @3"OC all sic	e of the bottom	



increased to 83" between the supply and return trench. Please note, that the pipe manufacturer discourage "bulbing" the end of the loop and recommended resolving

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 496 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
	embedded plates. Please provide details etween slide bearing assemblies and d plates.		reinforced e attachment						
			Details 6 & 7 on S1-3205: For 16ga plate to embed plate, weld shall be 1/8" fillet, 1"@3"OC all sides. For detail 6 only, reinforced elastomeric backing to steel plate, bonded attachment per manufacturer.						
T-0502	BGP - Slide Bearing Weld Details	Closed	04/18/2013	04/28/2013	04/29/2013	Potential	lly		
From: Webcor Cor	nstruction LP Kody Cooper	To: Turner Construction Compan Gary Krutsch	Answered I	By: Adamson Asso	ociates, Inc Geor	ge Metzger			
Co-Author: Shimmick C	Construction Company, Inc Jesse Dillon								
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:				
Reference Drawin	g: S1-3205, S1-3210 and S1-3211		For details 6, 7, & 9 on S1-3204, 3/S1-3210 and 1/S1-3411 for both bottom and top support connections,						
assemblies to be See clouded callo details are provide	r various pieces of the slide bearing continuously and tack welded to plates. outs on attached drawings. No welding ed with the callouts. Please provide ous welds and spacing for tack welds.		provide 1"@	14"oc max 1/8" filli along each side (et weld with 1" mi	n at			
T-0503	BGP - Geothermal Pipe Loop Bends	Closed	04/18/2013	04/18/2013	04/23/2013	Potential	lly		
From: Webcor Cor	nstruction LP Robert Kjome	To: Turner Construction Compan Gary Krutsch	Answered I	By: Adamson Asso	ociates, Inc Geor	ge Metzger			
Co-Author: Shimmick C	Construction Company, Inc Chris Williams								
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:				
Pipe) recommend be bent in a radius diameter. For the bend radius of 41. drawings depict th leave a large over	al pipe manufacturer's (Performance lations, the geothermal pipe should not s smaller than 25 times the pipe geothermal pipe loops, this equates to a .5". However, the goethermal design he loops to be 60" on center that would rlap (in theory) of almost 24"/2'. To adius, the trench spacing will have to be		WSPFK Response: Maintain pipe manufacturers' minimum long term bend radius as required per specifications with loop arrangement as shown on contract documents. Large Radius bends following th manufacturers' minimum pipe bend radius are an acceptable practice per IGSHPA standards (IGSHPA Design Manual Section 7.6.2.1). James Bradshaw 4/19/2013			er on wing the an SSHPA			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

497 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Cost Created Required Answered Number Subject Status Impact Proceed

the issue away from bending or "bulbing" the end of the pipe loop.

S3H Inc. is proposing to overlap half of a loop onto another such that the spacing between pipes remains at a 4' minimum (per RFI T-0493). This would create a 8' minimum distance between the supply side of a loop and the return side of a loop. In doing so, a portion of the two overlapping loops would be crossing. Is this acceptable? Please find attached drawing #1 as a reference of the proposed layout. Please note that this proposed method would change the reverse return self balancing configuration of piping. This proposed method also has the possibility of being impacted by various micropile conflicts.

S3H Inc. is also proposing as a fix to field one to install 2 fused - 90 degree elbows at the end of each loop in a Ushape configuration using the current, as installed dimensions between the loops. Please find attached Drawing #2 depicting the 90 degree elbows on the loops This would eliminate the required 83" bend diameter. This is least impact proposal to rectify the already installed field 1. but would be an additional cost.

Please advise as to how to proceed with Field 1 as well as the remaining 14 Fields.

T-0504 BGP - Radius Foundation Walls - R=637.63'

From: Webcor Construction LP Lvnn Kowallis

Co-Author: Shimmick Construction Company, Inc Filip Filipic

REQUEST:

Ref: Submittal Package T0600-030

SCCI's plan is to construct the R=637.63' foundation walls in 16' chords. Layout of the construction joints shall be per approved as noted CJ layout submittal. R=637.63' foundation wall runs along the Southwest portion of the project, from GL 3 thru GL 16, or SCCI's wall pours W160 thru W174A. See attached sketch of the wall detail for clarification.

Is this acceptable?

Closed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

04/19/2013

04/29/2013

05/02/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

The proposal to layout the wall in 16' chord segments is not acceptable. The foundation wall assembly is designed with a 2" zone for the waterproofing assembly and a 3' thick foundation wall. Providing chord segments instead of a curved radius will reduce the thickness of the foundation wall.



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

498 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
Γ-0505	BGP - Protection	on Board on Horizontal Surfac	e of Waterproofing	Closed	04/19/2013	05/03/2013	04/29/2013	Potential	ly 🗌	
From	n: Webcor Construction LP	Ian Corcorran	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Autho	r: Shimmick Construction Compan	y, Inc Ben Gordon								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Ref.	. Dwg. A1-8710, A1 -8711, S1-300	03			Protection board is not required on top of the waterproofing membrane which is to receive protection					
Please confirm that there is no protection board installed on top of the waterproofing membrane to receive protection slab. Drawing S1-3003 shows protection board, while A1-8710 & A1-8711 does not.					, ,		ch is to receive p			
Г-0506	BGP - Continu	ous Horizontal Concrete Insert	s	Closed	04/22/2013	05/02/2013	05/07/2013	Potential	ly 🗌	
From	n: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Autho	r: Shimmick Construction Compan	y, Inc Ben Gordon								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Refe	erence Drawing: A1-6231					to raise the bott by 1" is accepta	om insert 1 ½" a	nd lower		
cont A1-6 cond lowe betw grea the i	ase reference the attached sheets tinuous concrete inserts. On the er 6231 SCCI is proposing the layout crete inserts. Raising the bottom in ering the top insert 1" will provide a ween the inserts and the constructioter clearance from the constructiorisk of rock pockets or voids. Pleas ensions as acceptable.	nlarged detail C of of the horizontal asert 1- 1/2" and greater clearance on joint. Achieving a n joint will reduce			the top moon					
Γ-0507	BGP - Continu	ous Concrete dobie-mat slab		Closed	04/22/2013	05/02/2013	05/06/2013	Potential	ly 🔲	
From	n: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Autho	r: Shimmick Construction Compan	y, Inc Ben Gordon								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
form dobi cons with porti pern	ase see attached sheets regarding ns. SCCI is proposing the use of a ie as part of the bulkhead design a struction joint. The continuous dob the reinforcement mats and will ar ion of the formwork. The dobie will manent member and will meet all s mat slab concrete mix design requ	continuous concrete long the vertical ie will be installed ct as a cast-in become a pecifications that			reinforcement construction ju Tomasetti. W nature of the p of introducing of the dobbie)	support and pe bint form is not a e are concerned proposed dobbie two cracks in the Per spec, bottom.	ie acting as both rmanently cast-in acceptable to The distance will increase like mat (one at eacom reinforcing by precast concre	n ornton Jous elihood ach face ars in		



beam BMATV around pin pile #8.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 499 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
approval of the	he use of the continuous	dobie.			or individual high chairs, supports which a continuous. TT recommends either to me dobbie in line with the form work and rem the next concrete pour, or use another recoption to form below the bottom reinforce providing required support for the reinforce from the construction joint.				
Γ-0508	BGP - Drainaç	ge Composite Joint Orient	ation	Closed	04/23/2013	05/03/2013	04/25/2013	Potential	ily 🔲
From: Webco	or Construction LP	Kody Cooper	To: Turner Construction Comp	pan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimm	nick Construction Compa	ny, Inc Ben Gordon							
This spec se	pecification: 07 12 10-3.2 ection states "Install drain horizontally and lap shee	age composite either	SUGGESTION:			Accept Sug I to butt joint the tions of this proje	panels is not acce	eptable	
direction of w state "the dra together so t SCCI sugges	water flow." The manufac ainage side laps must be there are no gaps or void sts butt joining the draina turer's instructions. Is thi	turer's instructions tightly butt joined s between them." ge composites per					to aid in supporti ne from the one a		
Γ-0510	BGP - Interna	l Bracing Pin Pile #8 in co	nflict with Moment Beam BMATV	Closed	04/23/2013	05/03/2013	04/30/2013	Potential	lly 🗌
From: Webco	or Construction LP	Lynn Kowallis	To: Turner Construction Comp	pan Gary Krutsch	Answered B	y:Webcor Const	ruction LP Robe	rt Kjome	- Ш
Co-Author: Webco	or Construction LP	Kirk Nielsen							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please reference attached marked up sheet S1-2202. The location of internal bracing pin pile #8 conflicts with moment beam BMATV. General Note GR-9 on sheet S-0005 precludes blocking out moment frames. Upon submitting for the internal bracing system the TG03 BSE subcontractor was not aware of the location of beam BMATV to coordinate around. WOJV is requesting a variance from note GR-9 and is requesting to block out					Meeting", thing to consider be coordinated.	ons during 04/25 s pin pile is being eing eliminated a	/2013 "W/OJV Asgre-visited by Corgs well as to be ess re-bracing solu	ntractor	



REQUEST:

Please reference SCCI RFI #130, Detail 5/A1-8710, and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

500 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

The manufacturer's recommendations are acceptable.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please advise) .								
T-0510.1	BGP - Interna	l Bracing Pin Pile #8 in co	nflict with Moment Beam BMATV	Closed	05/02/2013	05/14/2013	05/15/2013	Potential	ly
From: Webco	Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please reference attached marked up sheet S1-2202. The location of internal bracing pin pile #8 conflicts with moment beam BMATV. General Note GR-9 on sheet S-0005 precludes blocking out moment frames. Upon submitting for the internal bracing system the TG03 BSE subcontractor was not aware of the location of beam BMATV to coordinate around. On 4/23/13 WOJV submitted RFI #T-0510 requesting a variance from note GR-9 and is requesting to block out beam BMATV around pin pile #8. During the 4/25/13 "WOJV SE Assist Meeting," when the issue was brought up, a PMPC employee suggested prematurely removing strut STA09 because it has diminished load. On 4/30/13 WOJV received RFI response #T-0510 stating pin pile #8 was going to be removed hence WOJV should close the RFI #T-0510. In addition to strut STA09 pin pile #8 supports strut #STB09 which is carrying a load, not that the internal bracing EOR would allow the premature removal of two strut levels. WOJV again requests a variance from note GR-9 and is requesting to block out beam BMATV around pin pile #8.					block-out the shall limit the beam and refe Block-out rein shop drawing. Note that the brace for the fresponsible for as well as cool.	Lower Concours width of block-out to GR-9 for of forcement shall s. Lower Concours foundation wall. or the stability of ordinating with out of the grant of the stability of th	the structure pe	ctor h of the b. sbar as a r GR-4	
T-0511	BGP - Deneef	Swellseal at Electrical Gr	ounding System Boots	Closed	04/23/2013	05/07/2013	05/09/2013	Potential	lly 🗌
From: Webco	Construction LP	Ian Corcorran	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimm	ck Construction Compa	any, Inc Ben Gordon							

SUGGESTION:



(Laurenco) has indicated that due to "out of plane" piles, and relaxation of CDSM substrate requirement, they are requiring intermediate fasteners to hold the 1/4" protection board tight to the CDSM wall. Please review and advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 501 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
18 ga ga grade ac #TG060 which is The atta 04/05/13 Swellsea with Swethe curin Deneef/0 deep an Set CT C contain i waterprowould no	ched letter. Detail 5/A1-8710 alvanized steel boot to be add thesive and filled with uretha 0-024 approved the use of D the product called out in Speched letter Deneef/Grace ted 3 states that filling the entire lal is excessive and state that ellseal WA is more than neceng capability. Grace suggests that the material of the the boot. The Manufactu pofing ability of the material in the boot of the material in the compromised.	hered with trowelable ne sealant. Submittal leneef Swellseal WA ecifications 07 12 10. Chnical letter dated boot with Deneef filling the entire boot essary and may affect lerial be installed 2-3" rout such as "Rapid d Set Cement All" to rer states that the	que con: inst: prop		question on R consolidated i installation me	The question on RFI T-0511 is very similar to the question on RFI T-0496 and could have been consolidated in to one RFI, or better yet, this installation method should have been researched and proposed on the Waterproofing shop drawing submittal				
Please r	review and advise.									
T-0512	BGP - Additio	onal Fasteners for Protection	on Board Installation	Closed	04/23/2013	05/07/2013	04/26/2013	Potential	,	
From: W	ebcor Construction LP	Ian Corcorran	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger		
Co-Author: Sh	nimmick Construction Compa	any, Inc Ben Gordon								
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Ref. Spe	ec. 07 12 10-3.2.D				The design te	am does not ob	ject to the propos	al.		
Section protection driven fa	reference Spec Section 07 12 07 12 10 - 3.2.D states the for on board to flanges of soldier asteners and washers spaced oints. Maximum joint width: 1	ollowing: "Secure 1/4" piles with powder d 12 inches o.c. Butt								
The mar	nufacturer of membrane wate	erproofing system								



Please confirm this is acceptable.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

move inward, the thickness of the wall is reduced and

therefore the original response of T-0513 shall apply.

502 of 1053 11/05/2013

Date: 1
Time:
Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
Γ-0513	BSE - Steel plate	at CDSM piles 738-739		Closed	04/24/2013	05/04/2013	05/08/2013	Potential	lly 🗌		
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger			
Co-Author: Balfour I	Beatty Infrastructure, Inc.	Shad Gardner									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Ref: Specification Section 31 56 13 It is accepts proposed in proposed in During leak grouting at level 5 excavation, a section of the CDSM wall panel between soldier piles 738-739 became foundation dislodged, resulting in a high volume leak. In an effort to stabilize the damaged CDSM panel and stop the leak, stabilize the damaged CDSM panel and stop the leak, stabilize the damaged road plate between soldier piles 738-739 and injected grout behind it. BBII installed a steel road plate between soldier piles 738-739 and injected grout behind it. BBII is concerned that removing the plate will likely cause the panel to become destabilized and could reopen the W/O Note:						It is acceptable to leave the steel plate in place as proposed in the RFI. This will result in the waterproofing membrane encroaching in on the foundation wall at pile 738. The foundation wall at pile 738 may be reduced to 34 5/8" thickness and the foundation wall vertical reinforcement shall be modified per proposed solution presented in RFI 0448.0 for wall thickness reduction up to 3" and applied between piles 737 and 739. W/O Note: Acceptable provided BBII take a survey of the face of the plate and provide coordinates.					
Γ-0513.1	•	,	hment between CDSM Piles No. 738		05/16/2013	05/26/2013	05/24/2013	Potential	lly		
	Construction LP	Kirk Nielsen	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
the steel plate proposing to lo slab pour to ac	attached SK-0153.1, the e is primarily in the mat slat ocally adjust the reinforcem chieve the required cover. T reinforcement on the wall v	b pour. WOJV is nent in the mat There will be no			coordinated w	able however thith other discipli		e			
plates edges t WOJV is prop metal lath to th fasteners. Rap depth ensuring	f chamfering the offset the of the face of CDSM wall: osing to mechanically fastene CDSM beams using power of the plates harmatch the existing face of the plates of the plates of the plates.	en expanded vder activated ed to the required ve a gradual			It is not clear f proposes "n means the un original locatio on the provide	o change to the modified wall co on or if the bars d encroachmer	e: nen the Contracto reinforcement' ontract bars stay i will move inward the hars are propo-	if this n Based II			



Please clarify the MEP drawing that displays this

information.

Webcor/Obayashi Joint Venture

Page: Date:

Job:

The TJPA Representative does not believe the Covers

for SPG, SE, and OSI are included in TG06 scope of

work.

503 of 1053 11/05/2013

30100

Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed If the Contractor proposes not to modify the wall reinforcement, please submit technical justification. T-0514 BGP - Mech Room Slab Finish Elevation and Grate Clarification 04/24/2013 Closed 05/04/2013 04/30/2013 Potentially From: Webcor Construction LP Lynn Kowallis To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Shimmick Construction Company, Inc Ben Gordon SUGGESTION: REQUEST: ANSWER: **Accept Suggestion:** Ref: P1-2022 1. The two elevations are correct. Drawing P1-2022 details slab elevations "TOC = -35'-8"" 2. It is the design team's veiw the pits and oil-sand and "Future FFE = -35'-5"" Detail C/P1-4001 depicts a interceptor covers are not part of the TG06 scope of section view of the mat slab in the mechanical pump work. WOJV shall confirm the scope of work in each room: however, it is not clear whether both the Future FFE bid package. and TOC of mat slab are shown. 1. Please confirm if the attached marked up drawing is correct in detailing the two elevations. 2. Also, please confirm if the grates shown in Detail C/P1-4001 are part of the TG06 scope of work. If so, then please provide details for the grate. T-0514.1 **BGP** -Mech Room Slab Finish Elevation and Grate Size Clarification Closed 05/03/2013 05/10/2013 05/07/2013 Potentially From: Webcor Construction LP Lynn Kowallis Answered By: Adamson Associates, Inc George Metzger To: Turner Construction Compan Gary Krutsch Co-Author: Webcor Construction LP Robert Kjome REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Reference Drawings A1-2102, P1-4001 Contractor is responsible for determining the scope of work of each bid package. Contractor shall clarify this Sheet A1-2102 between G.L. 4/5 and C.3/D note reads item for sub-contractor. In the future, do not submit "PITS AND COVERS REF. TO MEP DWGS." MEP scope of work questions between sub-contractors to drawings do not provide grate sizes for the SFG, SE, nor the design team. OSI on C/P1-4001 in RFI T-0514.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

504 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
0515	BGP - Epoxy (Coating for Form Saver Co	uplers	Closed	04/23/2013	05/07/2013	05/06/2013	Potential	
From: Webcor	Construction LP	Ian Corcorran	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	·
o-Author: Shimmic	ck Construction Compa	ny, Inc Ben Gordon		•					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. Dwg. 6/S1	1-3001					at epoxy coating	of splice form sa		
future const.) a	n the typical splice form as called out in detail 6/ per ASTM A-775 specif	S1-3001 are to be			3001 shall be manufacturer' threads of the including epox epoxy coating only (not the tifor the form save construction a	per ASTM A-77 s requirements coupler are to be a couting, at the is to be applied thread area). No aver is only require are used for s	called out in det 5. In compliance (IAPMO-ER #01:) be free of debris, e time of coupling to the exterior s be that the epoxylired for the case splicing bars for fetail 6/S1-3001. poxyl coated.	e with 29), all g, thus urface y coating where uture	
0516	BGP - C Chan	nel Conflict		Closed	04/24/2013	05/04/2013	05/09/2013	Potentiall	ly 🗌
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
o-Author:				•					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Spe Reference Ske Reference Pho						g and waler are	ed when the asso removed during		
wall will inferfe reinforcement Is it acceptable time with each	els welded to the soldier ore with the installation of of the foundation walls to remove the C-Char foundation wall lift in o tical reinforcement ove	of vertical (See attachments). Innels one level at a Irder to allow							
0517	BGP - Geothe	rmal Pipe Loop Bends		Closed	04/25/2013	05/05/2013	04/26/2013	Potential	ly 🔲
From: Webcor	Construction LP	Kody Cooper	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	ge Metzger	
o-Author: Shimmic	ck Construction Compa	ny, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
from the Geoth progress meet	I Inc. are looking to con nermal Design Enginee ing. nal Piping can "bulb" ec	r from the 4/24/2013			concentrically radiusWSPI DIAMETER of	to incorporate t FK Response: 2 f pipe required f	oulb" eccentricall he minimum 25E 5 Times OUTSIE or bend radius. E cceptable to achie	bend DE ccentric	



details such.

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

505 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

				-	Date	Date	Date	Cost	
radiusThe bulbing of th to overlap and this -Due to the bulbin conflict with the m the pipe loopspac -Please confirm th pipe is acceptable	e bulbing of the geothermal loops can cause the loops verlap and this is acceptable at the bulb locations. The to the bulbing, the geothermal loo[may become in the dict with the micropile locations, please confirm that pipe loopspacing can be adjusted. The acceptable to achieve the 25D bend radius sirement as long as the stakes are removed for		Status	radius -The bulbing of loops to overlocations. WS the meeting September the pwhen they crow that the pipe I Response: Lothe 4'-0" from micro piles butter that the bulbing of the conflict with	of the geotherm ap and this is ac SPFK Response 3H agreed to poipes to prevent oss over each of the micropile loopspacing can sop Spacing at the RFI 473 in the	al loops can cause cceptable at the but This is acceptable rovide some back kinking of the pipe	e the alb le. At fill les ecome confirm PFK less than miss	Proceed	
					loop pipe is a radius require for backfill. W maintain the 2	cceptable to ach ement as long as SPFK response 25 time OUSIDE	ng of the geothern nieve the 25D bends the stakes are reduced: Temporary supposed: DIAMETER bends of the contractor.	d moved orts to	
T-0518	BGP - Differe	ntial Movement in Waterp	oofing Layers	Closed	04/25/2013	05/05/2013	05/20/2013	Potential	ly 🗌
From: Webcor Co	nstruction LP	Kody Cooper	To: Turner Construct	tion Compan Gary Krutsch	Answered By	y: Turner Constru	uction Comr Jeff T	hiel	
Co-Author: Shimmick C	Construction Compa	any, Inc Chris Williams							
the Contractor is to incorporate "proving reference the con- criteria for the diff	o install the waterp sions for differentia	Il movement". Please at specify the design of the structure.	SUGGESTION:		ANSWER: RFI retracted	Accept Sug as a request by			

To: Turner Construction Compan Gary Krutsch

T-0518.1 BGP - Differential Movement in Waterproofing Layers

Kody Cooper

Closed

05/01/2013 05/10/2013

05/14/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger



T-0520

From: Webcor Construction LP

BGP - Finish Floor Elevation

Ian Corcorran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

506 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
ny, Inc Ben Gordon							
	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response to SCCI RFI #146 - Differential Movement in Waterproofing Layers, is movement expected and if so, how much movement is expected? If movement is expected, please provide Specification Section or Contract Drawing stating so.			due to settler the building a turned off as Please refere	ment and at this after the construction well as movemented the geotech	site hydrostatic uption phase dewar ant from seismic e unical report for	olift on ering is	
			W/O Note: TI	he Geotechnical	report was include	led in	
roofing Detail Clarification	n at "Pressure Slab" Joints	Closed	04/25/2013	05/05/2013	04/29/2013	Potential	ly 🗌
Kody Cooper	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
ny, Inc Ben Gordon							
10 shows a typical postruction joints) at states the following: inches and 3 inches ab. Temporarily fon board until the indide	SUGGESTION:		07 12 10 is the 2. The continue general reparameters. The contractor following the	n "Pressure Slab ne 5' thick "Mat S tract drawings ar equirements and Specification 07 embrane configurer or should provide waterproofing m	in Specification Slab" on the drawing specifications of waterproofing sy 12 10 - 3.3.G is cration below cold a submittal detain anufacturer's	ngs. cover stem lear joints.	
	s movement nent is expected? If le Specification so. roofing Detail Clarification Kody Cooper any, Inc Ben Gordon on 07 12 10 - 3.3.G 10 shows a typical construction joints) at states the following: inches and 3 inches lab. Temporarily ion board until the indside slab" is referring to as b" in the Contract coofing for this	SUGGESTION: Differential s movement nent is expected? If the Specification so. Proofing Detail Clarification at "Pressure Slab" Joints Kody Cooper To: Turner Construction Corruny, Inc Ben Gordon SUGGESTION: On 07 12 10 - 3.3.G 10 shows a typical construction joints) at states the following: inches and 3 inches lab. Temporarily ion board until the indiside Italab" is referring to as b" in the Contract coofing for this	SUGGESTION: Differential s movement nent is expected? If the Specification so. Proofing Detail Clarification at "Pressure Slab" Joints Closed Kody Cooper To: Turner Construction Compan Gary Krutsch any, Inc Ben Gordon SUGGESTION: SUGGE	Interpretation of the property	Iny, Inc Ben Gordon SUGGESTION: Differential Somewhent and at this the building after the construction forms as a reference of package as a refere	Status Created Required Answered Answered SUGGESTION: Differential s movement enters is expected? If the Specification is incomparity of the Suggestion	Status Created Required Answered Impact SUGGESTION: ANSWER: Accept Suggestion: As with all buildings there is expected to be movement due to settlement and at this site hydrostatic uplift on the building after the construction phase devateding is turned off as well as movement from seismic events. Please reference the geotechnical report for information regarding these issues. W/O Note: The Geotechnical report was included in TG06 package as a reference document. Answered By:Adamson Associates, Inc George Metzger and 10 shows a typical nestruction joints) at states the following: and 07 12 10 - 3.3.G 10 shows a typical nestruction pinch and shows a proper inches and 3 inches an

To: Turner Construction Compan Gary Krutsch

Closed

04/26/2013

05/10/2013

Answered By: Adamson Associates, Inc George Metzger

05/06/2013

Potentially



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

507 of 1053

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author: Shimm	ick Construction Compan	v. Inc. Andv Khuu							
REQUEST:	on cononacion compan	y,e /ayau	SUGGESTION:		ANGWED.	Accept Com			
Ref. Dwg. P1 Ref. Spec. 22 Contract draw for the Future does not app drawings (P1			Future Floor I service rooms	Finish Elevation s at B2 Level No	gestion: 5'-5" applies only for the area cont orth West bounde .5; GL F.7, 1.4 ar	aining d by the			
-0521	BGP - 1 in Agg	regate in Protection Slab	Cast-in-Place Concrete Mix Design	Closed	04/29/2013	05/09/2013	05/02/2013	Potential	lly
From: Webco	r Construction LP	Lynn Kowallis	To: Turner Construction Compa	an Gary Krutsch	Answered By	y: Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author: Shimm	ick Construction Compan	y, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Submitta	al TG0600-200.1				Confirmed: the Slab is accept		egate at the Prot	ection	
concrete mix submittal and 2013 and retu intends to use in-place conc mix design w	nce submittal TG0600-20 design - Protection Slab) submittal response, senurned as "Make Correction 1" aggregate in the aborete mix. In addition, the as also reviewed at the Ttory DFOW meeting, held	. Per the referenced t to SCCI April 12, ns Noted," SCCI ve mentioned cast- above mentioned G06.0 Protection							
Please confir Slab is accep	m the use of 1" aggregate table.	e in the Protection							
-0522	BSE - Micropile	e Relocation- Performano	e Test Pile Zone 2 (Sequencing)	Closed	04/29/2013	05/09/2013	05/03/2013	Potential	lly 🗌
From: Webco	r Construction LP	Lynn Kowallis	To: Turner Construction Compa	an Gary Krutsch	Answered By	y:Turner Constr	uction Comr Stac	y Wilson	
Co-Author: Balfour	Beatty Infrastructure, Inc	. Brandon Miller							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: S1-2023						,	FI will be pulled b		
installed for Z	performance test micropil cone 2. Due to sequencing pocating this pile from the control	g advantages, BBII			0522.1.	yn team, and St	perseded by RFI	1-	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

508 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Potentially

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

shown in S1-2023 to GL 15 between B&C. The relocated micropile location is within the geothermal area; however. it does not appear to impact geothermal piping. See attached sketch.

Please confirm this is acceptable.

T-0522.1 BSE - Micropile Relocation- Performance Test Pile Zone 2 & 3 (Sequencing) Closed

From: Webcor Construction LP Lynn Kowallis To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Co-Author: Balfour Beatty Infrastructure, Inc. **Brandon Miller**

Ref: Specification Section 31 63 33 1.1B

REQUEST:

This RFI supersedes RFI T-0522. DTDS proposes to reduce the design length of the Micropiles East of Gridline 17 (EG17) from 80 feet to 70 feet. DTDS has shown through testing and reduced postgrouting that a higher soil-grout bond than originally assumed in the design can be achieved in the field. DTDS will install two (2) performance test piles to verify the capacity of a 70 foot micropile EG17. One performance test pile will be installed in Zone 2 at gridline 17 between piles E005 and E008. The second performance test pile will be installed in Zone 3 at gridline 20 between piles E136 and E137. DTDS believes that 70 foot micropiles EG17 will still achieve the maximum required load capacity of 2.4 times Design Load (560 kip). The performance test piles will be installed with one (1) round of post-grout. Based on the results of the testing, additional post-grouting can be provided as necessary.

Upon completion of the testing DTDS will submit revised micropile working drawings and calculation supplement.

All production micropiles will continue to be proof tested per the Specifications. The performance test locations provided would supplant the performance test locations shown in the Contract plans for Zones 2 and 3.

Please confirm this is acceptable.

ANSWER: **Accept Suggestion:**

05/12/2013

05/03/2013

05/02/2013

The proposed relocation for the zone 2 performance test micropile is acceptable.

Answered By: Adamson Associates, Inc. George Metzger

The proposed relocation for the zone 3 performance test micropile is not acceptable. (The contract documents indicate the zone 3 performance test micropile to be located at GL E and to the east of GL 22. If the contractor desires to relocate the zone 3 performance test micropile, the proposed location will not be approved at locations west of GL 22.)

Thornton Tomasetti does not object to the other aspects of the RFI except to note that the maximum required load capacity for the performance test remains at 2.8 times the Design Load (not 2.4), per the contract documents.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

509 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0523	BGP - Floor D	rain Elevation in Foot Traffic A	Areas	Closed	05/01/2013	05/09/2013	05/07/2013	Potential	ly 🗌
From: We	ebcor Construction LP	Lynn Kowallis	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Webcor Constr	uction LP lan (Corcorran	
Co-Author: Sh	immick Construction Compa	ny, Inc Andy Khuu							
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref: Spe	cification Section 22 13 01 -	3.2 D.3					with rims and gra		
	specification 22 13 01 - 3.2. criteria for installation of floo				nusii anu ieve	i with himshed no	or, also the noo	i Siliks.	
subject to b. Set dra floor elev	ain rims flush and level with to foot traffic. ain rims minus 1/8-inch to 1/ration, so as to provide positiot subject to foot traffic.	4-inch from finish							
Please p foot traffi	rovide a map of areas which c.	are to be subject to							
Γ-0524	BGP - Protect	ion Slab Minimum Thickness		Closed	05/08/2013	05/18/2013	05/08/2013	Potential	ly
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Sh	immick Construction Compa	ny, Inc Ben Gordon							
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference	e Drawing: S1-3201, A1-871	10			Protection slate can locally red		ypical throughou	ıt, but	
40.67' as Protectio elevation	I set the top elevation of the shown on the attached cont n slab thickness may vary downwall or built-une, adhesive and flashings.	tract drawing. ue to mudslab							
Please p	rovide minimum thickness fo	or protection slab.							
Γ-0525	BGP - Asphal	t Cement Specification		Closed	04/30/2013	05/10/2013	05/03/2013	Potential	ly
From: We	ebcor Construction LP	Lynn Kowallis	To: Turner Construction Compar	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Sh	immick Construction Compa	ny, Inc Ben Gordon							
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Please re Specifica	cification Section 07 12 10 - eference Specification Section tion 3.2.E states "Install two I felts over the protection boo	on 07 12 10 - 3.2.E. plies of asphalt			to ASTM D374 Class I Type I dry the substra	47 for bituminou for solvent bear ate is. An exam	product should s emulsions or I ing depending o ple is Karnak's , Amphibikote or	04586 on how	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 510 of 1053 11/05/2013

Date: Time: Job:

approved this elevation change. If this contractor requested change is approved by PB&A and the design team (AAI, Arup, Thorton-Thomasetti, etc.), the

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
place." Spec Sec asphalt cement t RX-100 Flashing now proposing to	cement sufficiently space ction 07 12 10 does not s to be used. SCCI submitt y Cement which was rejec o use Laurenco recomme t. Please confirm that this	pecify the type of ed Roofxtender cted. Shimmick is ended AIM # 340				mittal with their p	II provide a shop proposed product		
T-0526	BGP - Replaceme	nt of T9 Wall Cross Ti	es with S3 Open Stirrups	Closed	05/02/2013	05/14/2013	05/07/2013	Potential	ly
From: Webcor Co	onstruction LP	Ian Corcorran	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author: Shimmick	Construction Company, I	nc Andy Khuu							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
cross-ties, as de single S3 open s	on that it is acceptable to repricted in detail 1 on S1-3 stirrup. Reference the attanfiguration of the T9 cross	201, with a ached sheets			open stirrup is please verify t	structurally acc he proposed rei	cross-ties with a eptable. Howeve nforcement scher constructability.	r,	
T-0527	BSE - Revision to	Zone 4 bracing eleva	tions level A-D	Closed	05/01/2013	05/11/2013	05/14/2013	Potential	ly 🗌
From: Webcor Co	onstruction LP	Lynn Kowallis	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Balfour Be	atty Infrastructure, Inc.	Danny Walsh							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
·	n section 31 55 00					able with regard lding the excava	s to the geotechration.	nical	
Please confirm the design team has no exceptions to raising the Zone-4 bracing elevations, all levels of struts/walers and all related strut supports/trestle bracing, 1'-0" so as to facilitate the specified waterproofing lap in relation to the top of wall.		levels of s/trestle bracing,				ential conflicts d	te this change wir luring the constru		
rotation to the top	p of wall.				provide writter Bracing and A	n documentation access Trestle de	6: WO/BBII is req a from the Interna esign Engineers of ney have reviewe	l of	



Reference Sketch: SK-5773

Webcor is proposing that the vertical changes in elevation

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

511 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ARUP Response:

Acceptable

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
						Bracing submittal is to be revised accordingly be britted in constructware for review and					
-0527.1	BSE -Revision	on to Zone 4 Bracing Eleva	tions Level A-D	Closed	05/10/2013	05/20/2013	05/14/2013	Potentia	lly		
From: Wo	ebcor Construction LP	Ian Corcorran	To: Turner Constructio	n Compan Gary Krutsch	Answered By	:Turner Constr	uction Comr Stacy	Wilson			
Co-Author:											
level intertermination which was submitted proposes. 1. Red elevation 2. Red elevation 25-26. 3. Red elevation 35. This scould and water and water submitted the submitted proposes.	led and or planned the curre ernal bracing walers conflicts ion elevations relative to the as unspecified when the inter d. Please find attached RFI	with the TG06 wall waterproofing overlap rnal bracing was SK-527.1-1, WOJV vation 2'-0" to an GL(s) 1 to 16-17. vation 1'-0" to an oprox. GL(s) 16-17 to vation .75' to an prox GL(s) 25-26 to	SUGGESTION:		documents to specified in ab Subcontractor however not li	nt: WOJV is her reflect the top o cove items 1-3. is to provide a mited to, the co which has been	rein amending the of wall elevations. The TG06 Trade credit for, to includence the trade of the	de			
-0527.2 From: Wo	BSE - Revision ebcor Construction LP	on to Zone 4 Bracing Elevat Robert Kjome		Closed n Compan Gary Krutsch	05/28/2013 Answered By	06/07/2013 Adamson Ass	06/11/2013 ociates, Inc Georg	Potentia ge Metzger	lly		
Co-Author:											
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				



Page: Date:

Job:

512 of 1053 11/05/2013

Time:

10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

(per RFI T-527.1) from +7.50' to +3.50' at level A gridline 16 - 17 will occur at a distance of 14'4" from gridline 16 and will be located between CDSM piles 164 - 165 on the north wall elevation and between CDSM piles 618 - 619 on the south elevation

Also vertical changes in elevation level A between gridline 25-26 from +3.50 to +1.50 will occur at a distance of 18'4" from gridline 25 and will be located between CDSM piles 265 - 266 on the north wall elevation and between CDSM piles 517 - 518 on the south elevation

Please confirm is this is acceptable

-0527.3 BGP - Revision to the top of the founda		tion wall Elevations TG06 Closed		10/25/2013	11/04/2013	10/29/2013	Potentially		
From: Webcor Cons	struction LP	Michael Spillane	To: Turner Construction Compan Gary Krutsch		Answered By: Turner Construction Comp Gary Krutsch				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
use of the already installed for level A elevation than first the finished elevati the TG06 package. This scope realloca	ation will now be moved sketch SK01 attached sh elevations.	the lookout at a lower need to revise I downwards for to the TG07.2				not the Design	tor's Means and Team's role to o	•	

T-0528 **BSE - Zone 4 Level 2 Excavation** Closed 05/02/2013 05/12/2013 05/13/2013 Potentially From: Webcor Construction LP Kody Cooper To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger

Co-Author: Balfour Beatty Infrastructure, Inc.

REQUEST:

Per sheet GT-1111, excavation at each level is limited to

Danny Walsh

SUGGESTION:

ANSWER: **Accept Suggestion:**

ARUP Response:



Co-Author: Webcor Construction LP

Kirk Nielsen

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 513 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

					Date	Date	Date	Cost	
Number	Subject			Status	Created	Required	Answered	Impact	Proceed
3' below the centerlin the spacing between (typically 12' to 14' ele limited clearance below demolition equipmenthe limit of level 2 excenterline of level B sfor a +/- 2' variation ir on sheet GT-1111. The additional feet of excenterions of the contract drawings	Level A and B str sewhere), which p ow Level A for exc t at level 2 excava- cavation be extend struts. (Note: the p n bracing elevation herefore, BBII is cavation over what	uts is only 8' O.C. provides extremely exavation & ation. BBII requests ded to 7' below plans already allow from those shown only requesting two is allowed based on			excavation be accordance w	low the centerlin rith the illustration e drawings. Ber	te the center of the of the level B s n titled Stage 5 o rms along the sho	struts in n sheet	
T-0529	BGP - CJ Layou	ut at Gridline J		Closed	05/02/2013	05/14/2013	05/13/2013	Potential	ly 🖂
From: Webcor Constr	ruction LP	Ian Corcorran	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	, _—
Co-Author: Shimmick Cons	struction Compan	y, Inc Andy Khuu			_		·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref. Drawings: S1-20 Ref. Spec. 03 30 20-					The construct acceptable.	ion joint present	ed in the RFI is		
Per Contract Specific wall, lower concourse construction joints sh slab joint below.	e floor slab, and gr	round floor							
SCCI proposes to ha shown on attached di construction joint wou into 2 pieces. SCCI p construction joint thro foundation walls while through the knockout	rawing CJ -11; hor uld end up dividing proposes to install ough the mat slab e omitting the con	wever, the g the knockout wall the J-line and typical							
Please confirm this is	s acceptable.								
T-0530	BGP - Dimension	on conflict between spac	e allocated for BGP waterproofing	and BGI Closed	05/03/2013	05/12/2013	05/28/2013	Potential	ly
From: Webcor Constr	ruction LP	Lynn Kowallis	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	_



Contract Drawing details and approved shop drawing submittal details do not match what is called out in the above Spec section. Please advise as to which detail is to

be used (shop drawing or

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

514 of 1053 11/05/2013 10:53 AM

Time: Job: 30100

umber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST: Ref: GT-2101 Detail 1 Specificaiton Section 07 12 10 To include however not limited to, sh 2" for the specified below grade wate installed waterproofing system (07 1 1/4". The insulation layer of the wate specified at ½" (07 12 10.2.5.E). So as to resolve the proximity conflict reduce the specified insulation thicks	erproofing. The 2 10) thickness is 2- erproofing system is	SUGGESTION:		ANSWER: The insulation remain at the s		ofing assembly is	to	
0531 BGP - Water	proofing Detail Clarification Robert Kjome	n for Flashing Penetrations To: Turner Construction Comp	Closed an Gary Krutsch	05/03/2013 Answered By:	05/12/2013 Adamson Asso	05/14/2013 ociates, Inc. Georg	Potential	ly
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Specification: 07 12 10 Reference Drawings: A1-8710, A1-8 Contract Drawings and approved shipsheet metal boots over micropile per grade adhesive over two plies of Lau Spec Section 07 12 10- 3.4 states the	op drawings show netrations set in trowel urenco.			8711, which is Bitumen Water been subseque fill for the boot. Please refer to regarding deta The shop draw	also shown on rproofing Shop ent RFI response Specification Sils prepared specifing concurs with	ail is shown on 2/4 the BGP Modified Drawings. There I ses regarding the Section 07 12 10 1 ecifically for this p h the designed de	nave sealant .4 C roject.	
A Install flashing at terminations and B. Flash waterproofing with a minimular glass fabric and 3 applications of ad 6 inches onto each membrane and s	um of 2 plies of woven hesive. Extend first ply			intentions of th requirements,	e specification this issue shou tive proposal m	etail conflicts with and design Id been raised ear ade for considera		
C. At penetrations, apply a minimum wrapped and a target patch per Man requirements. Where indicated on the stainless steel drawbands.	of2 plies spirally ufacturer's			, , ,	33			



embedded in the Mat slab SCCI would like to utilize the air test method. Air test method is specified in the California plumbing code article 712.3, and achieved by: "forcing airinto the system until there is a uniform gauge pressure of five (5) PSI. The pressure shall be held without

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

515 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
specificatio	ons).								
T-0532	•	Pit Grate Requirements		Closed	05/07/2013	05/17/2013	05/14/2013	Potential	ly
	cor Construction LP Imick Construction Compa	lan Corcorran	To: Turner Construction Compa	n Gary Krutsch	Answered By	y :Adamson Asso	ociates, Inc Geo	rge Metzger	
REQUEST	•	ny, me Andy Khaa	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	P1-2022 through P1-2027				_	rating required for	-		
Architectur on the corr Drawing Sh all other su (reference P1-2027) T requiremer marked-up	several sumps shown on the all drawings which are not sesponding Plumbing drawineet Notes indicate the gramps and Catch Basins on note No 1,2, 14 and 16 on There are no such notes for the sumps shown or Contract Drawings. See atting is required for these sumps shown or	shown and/or defined ngs. The Plumbing ting requirements for the project n P1-2022 through r grating n the attached ttached. Please verify							
T-0533	BGP - Mat Sla	b Drainage System Testing		Closed	05/06/2013	05/16/2013	05/09/2013	Potential	lly 🗀
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction Compa	n Garv Krutsch	Answered By	√ :Adamson Asso	ociates, Inc Geo		, _—
Co-Author: Shim	mick Construction Compa	ny, Inc Filip Filipic		,			,	J J.	
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Article 712 that: "The particle systems should be seen as the system and system as the sys	Specification Section 22 1: 2010 California Plumbing 0.1 Media, of the California poiping of plumbing, drainage hall be tested with water or a shall not be tested with ai	Code article 712. plumbing code states ge, and vent piping air except that			outlines minin tested per the	actor is aware of num requirement Contract Docur	, the Plumbing C its. The system ments as describ I, paragraph 3.3.	shall be ed in	
For testing	of the cast iron drainage li	nes that get							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 516 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Sul	oject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
introduction of additional a fifteen (15) minutes."	ir for a period of not less than							
Is this acceptable?								
T-0534 BG	P - Request for Latest Revit Model		Closed	05/07/2013	05/16/2013	05/09/2013	Potentiall	ly 🗌
From: Webcor Construction	n LP Robert Kjome	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Shimmick Construct	ion Company, Inc Andy Khuu							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Structural and Architectural designers. The 3D database only and will not be used funderstands that the 3D D the project design evolves SCCI accepts the risk and subject to change. SCCI a	to the latest, most up to date al Revit models from the use would be used for reference			issued to TJP 2013. TJPA w for information model is clear for use in con May 31, 2013 construction.	n-Progress Rev A for review and ill forward this n , review, and co ly clarified as no struction. The d are not being is The Contractor use, and how the	it computer modilicomment on Manager to the Control of the Control	ay 31, tractor evit cument d on when,	
T-0535 BG	P - Elevator Opening Encroachment a	at Concrete Beam B131	Closed	05/07/2013	05/16/2013	05/09/2013	Potentiall	ly 🗌
From: Webcor Construction	n LP Robert Kjome	To: Turner Construction Compar	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick Construct	ion Company, Inc Ben Gordon							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawing: A1-28	42, S1-2202, S1-3401			remain as sho	wn on A1-2842	oncourse slab sha	l be	

Please reference attached Contract Drawings A 1-2842, S 1-2202 and S 1-3401. DrawingS 1-2202 calls out concrete beam B131 running east to west between the elevator and Stair openings. The dimensions of concrete beam B131 are 22 inches wide and 36 inches high. See drawing S1-3401 for beam schedule. A1 -2842 calls out the spacing between openings to be 1'-9". This makes the elevator pit encroach 1 inch into concrete beam B131. Shall the elevator opening be relocated 1 inch to the south to

remain as shown on A1-2842. The beam shall be modified to 21" wide by 36" deep. Longitudinal reinforcement for this beam shall be 2-#10 for continuous top bars, 3-#10 continuous for bottom bars, and 3-#10 additional short bottom bars (L=18'-0" centered at midspan). Stirrups shall be #4's, type 2, 12@8"OC from each end, balance at 12" OC. Top & bottom clear cover to the stirrup shall be 3" and 1.5",

respectively.



From: Webcor Construction LP

Co-Author:

Ian Corcorran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Adamson Associates, Inc George Metzger

517 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed accommodate the concrete beam? Please advise. T-0536 **BGP - Sump Conflicting with Trestle Pile** 05/07/2013 Closed 05/06/2013 05/22/2013 Potentially From: Webcor Construction LP Robert Kiome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Shimmick Construction Company, Inc. Andy Khuu REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Drawing: A1-2817, S1-2027 The sump pit located at 7'-6 3/4" west of GL 34 per A1-2817 shall be relocated to 12'-3" west of GL 34 to Based on the latest BBII trestle model available to SCCI avoid this conflict. and contract drawing A1-2817, there appears to be a conflict between a sump pit and trestle pile near column W/O note: Please confirm that the relocation of this line "34" and "E". Please refer to the attached screen shot sump pit does not conflict with any micropiles in the from SCCIs Revit Model. surrounding area. 8/31/2012 IFC drawings did not show this sump pit as it was added in ASI No. 0099. Please provide direction on how to proceed T-0537 BGP - Sump Pit/Catch Basin Clarification at Gridlines C/19.1 05/07/2013 Closed 05/16/2013 05/13/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Shimmick Construction Company, Inc Andy Khuu **REQUEST:** SUGGESTION: ANSWER: Accept Suggestion: Reference Specification: 22 13 01 This is a sump pit in an escalator pit. There is no Reference Drawing: A1-2815, S1-2055, P1-2025 grate or piping associated with this sump pit. The pit near gridlines C/19.1 is identified as a catch basin in drawing A1-2815 but identified as a sump pit in drawing S1-2055. Drawing P1-2025 does not show any piping for this pit. Please confirm if this should be a sump pit or is the piping detail missing? T-0538 **BGP - Sump Pit Frame Elevation** Closed 05/07/2013 05/15/2013 05/10/2013 Potentially

To: Turner Construction Compan Gary Krutsch



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

518 of 1053 10:53 AM

30100

Time:

Job:

Number		Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Shimmick Cons	struction Compa	ny, Inc Jesse Dillon							
RE	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Re	ef Dwg. P1-2022, P	1-6001						s identified on plu		
Dr. ou 35 to un SC sla fra a t 01 fra	rawings P1-2022 and Top of Concrete = 5'-5". P1-6001 Detail be flush with the succear whether this in CCI has not been probe be extents. There shames are placed flustopping slab is placed 3 for details. SCC	d P1-6001. Drava- 35'-8" and Fini I 8 shows top of urface in which it is top of concrete rovided drawings hall be a 3 in ver sh with top of ma- ed in the future. I intends to plac	ish Floor Elevation= - sump grate frames t is embedded. It is e or top of finish floor. s to confirm topping rtical edge if sump pit at slab concrete and See attached SK-					uture track areas oncrete at elevati		
T-0539		BGP - ASTM 1	23 Galvanizing Variance		Closed	05/07/2013	05/17/2013	05/07/2013	Potential	ly 🗌
Fro	om: Webcor Constr	uction LP	Kody Cooper	To: Turner Construction Con	npan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Auth	nor: Shimmick Cons	struction Compa	ny, Inc Ben Gordon							
RE	EQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	eference Specificati tter from AZZ Galva		3.B and the attached			No				
the grands AS sle coordinates of the coordinates of	e Structural Shapes ade of 100 and 3.9 STM A123. The first evers (approximate pated under 17 per Table 1 quires 3.0 miles per CCI is requesting the st two pin pile in Artermetallic layers hat	and Plate Mate mils thickness p i 2 shipments of ly 12 pin pile and e and tubing mat of ASTM A123. r Table 2 - Coatin at the Grade 75 ea 1 that are fit a aving still penetrar, the process usage thickness fo	steel penetration d 17 trestle pile) were terial category with a . This coating grade ng Thickness Grade. be allowed for the and welded to the ated the material and sed will insure a long or the specified pin							



butt jointed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

519 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webo	cor Construction LP	Ian Corcorran	To: Turner Construction C	ompan Gary Krutsch	Answered E	3y :Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimi	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref Spec. 0	7 12 10- 3.2.D					or's suggestion to grees is acceptal			
Please reference Specifications Section 07 12 10- 3.2.D. This spec states the following: "Install protection board on vertical surfaces with long dimension vertical and the polyethylene film side facing the soil/cement surfaces. Secure 1 /4" protection board to flanges of soldier piles with powder driven fasteners and washers spaced 12 inches o.c " At the SW comer of the project, the soldier beams are spaced greater than the width of the protection board. We suggest rotating the protection board 90-degrees so that the long dimension is horizontal instead of vertical. This would allow for attachment to the soldier piles and the inside comer of protection board to be heated and formed into the comer. We also suggest using this method where pile spacing exceeds 4' on center. Please review and advise.					the waterproofin				
Please revi									
T-0542	BGP - Drainag	ge Mat Installation Clarificat	ion	Closed	05/09/2013	05/23/2013	05/13/2013	Potentia	lly
From: Webo	or Construction LP	Ian Corcorran	To: Turner Construction C	ompan Gary Krutsch	Answered E	3y :Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimi	mick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. Spec.	07 12 10- 3.2.F.				The Design this RFI are	Team confirms th	nat Items 1, 2 and	d 3 of	
composite i the felts. In:	ection states the following n largest practical sizes ov stall either vertically or hor direction of flow "	ver the entire area of			uiis Kri ale	correct.			
	ge composite is installed vot direction of water flow is a mudslab.								
	onfirm that only horizontal will be lapped 1 inch.	joints in the drainage							
3. Please c	onfirm that vertical drainag	ge core joints will be							



Please confirm this is acceptable.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 520 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0543	BGP - Galvanizing	Varying Material Cate	egory Variance	Closed	05/09/2013	05/23/2013	05/21/2013	Potentiall	у 🗍
From: Webcor Const	ruction LP	Ian Corcorran	To: Turner Construction Com	pan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick Con	struction Company, In	nc Ben Gordon							
3.3.B.2 and the attact Section 3.3.B.2 state components of varyithickness, provide material category compared in the second of t	o Specification Section Section Shed 'Ask Dr. Galv' gates "When galvanizing and material category at the state of the stat	alvanizing article. assemblies of and material ness grade for all num highest ab penetration as a Grade 75 e above because these on Grade 75 is nimum or the thickness d. As an atural catalyst to article. To specify ans. Therefore, minimum coating rells and Please be l, the galvanizing and to ating. Is Grade ess on the	SUGGESTION:		drawings of the galvan signed by the process the C the galvanize 05 15 / 1.3D recommenda specified AS the Contractor meet the des	Accept Sug tion section 05 0 he galvanizing so izing, and submit galvanizer. If in Contractor submits as a required by stating the propositions of and is in TM standard's mor's proposed galign intent of the anizer certificate process was daif that shop dravithis RFI.	15 15 / 1.3 submit chedule, submit t monthly certificated the shop drawnits a certificated specification secusal above meets a compliance with inimum requirent lyinanizing thick received in the ated January 4, 2	samples cate ag igned by ction 05 s the a the nents, ness will ents. Transbay	
T-0544 From: Webcor Const Co-Author: Balfour Beatty	ruction LP	elocation - W990 & W9 Ian Corcorran Brandon Miller	986 (Well Obstructions) To: Turner Construction Com	Closed pan Gary Krutsch		05/11/2013 y :Adamson Asso	<i>.</i>	Potentiall orge Metzger	у 🗌
with dewatering wells	d W986 as laid out are s. BBII recommends r orth 3'. See attached	elocating W990	SUGGESTION:			Accept Sug masetti does not 990 and W986 a	object to moving	9	



Reference: Drawing A1-9215, S1-2022, Spec Section 03

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

521 of 1053

Time: Job:

AAI - Please see SKA-2763 for new location of FSK

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0545	BGP - Embedo	ded Junction Box Details		Closed	05/10/2013	05/24/2013	05/24/2013	Potential	ly 🗌
From: Webcor	Construction LP	Ian Corcorran	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmic	ck Construction Compar	ny, Inc Jesse Dillon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. Dwg. A1-2	2842, A1-2850						s and specificati		
These drawing issued drawing junction boxes any conflicts w selected by the contained? If s	nce Contract Drawings A gs contain numerous "E.c gs do not contain details . SCCI is trying to deter vith the EJB locations. V e future contactor in whi specific EJB's have been the detail so SCCI can SCCI's scope.	JB" callouts. SCCI's sor embedded mine if there will be Vill the EJB's be ich this scope is n specified already,				select and deta	fications. The re		
Г-0546	BGP - Shear R	einforcement and Drainage	Conflict at Gridlines 4/C	Closed	05/09/2013	05/23/2013	05/28/2013	Potential	ly
From: Webcor	Construction LP	Ian Corcorran	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmic	ck Construction Compar	ny, Inc Andy Khuu							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref Dwg A1-92	215, S1-2022						sink dimensional s the floor sinks v		
A1-9215) canr layer mat slab	C, the floor clean out an not be installed due to the and shear reinforcement on how to proceed. Ref	ne spacing of the top nt (see S1-2022).			interrupt the to apply detail 1	p bars of the mon S1-3501 for at top mat bars	at. Contractor sl	nall	
SKELCH OF COMM	ilot.				located east o to the Fire Pur may be moved relocated floor	f column 4/C m mp room North I to a similar po sink. The asso be relocated in	se: The floor sint ay be moved Nor wall. The floor cl sition, south of the ociated vent and front of the Fire	rth, next ean-out ne the trap	
Γ-0546.1 From: Webcor	BGP - Follow Construction LP	Up to RFI 173- Shear Reinfo	orcement and Drainage Conflict at To: Turner Construction Compa		06/28/2013 Answered By	07/08/2013	07/12/2013 ociates, Inc. Georgia	Potential	ly
	ck Construction Compar		Turnor Construction Compa	an Jary Mulson		-/ (441113011 /1330	Jointes, IIIC Geol	go Motzgel	
REQUEST:		••	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Page: Date:

522 of 1053 11/05/2013 10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG Job:

Time:

30100 - Transbay Transit Center Project

		30100 - Hansbay Hansit Center Project									
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
20 00					and FCO with	nin the Fire Pum	p Room.				
Response to SCCI RFI #I73 (WOJV RFI#T-0546) did not provide SCCI with clear direction on how to proceed with the conflicts between the floor clean out and floor sinks at gridline 4/C (Ref A 1-9215 and S 1-2022) with top layer of rebar and shear reinforcement. TT response only addresses the top bars of the mat, and not the shear reinforcement that will be in conflict with the floor clean out and floor sinks. WSP Flack and Kurtz suggests possible alternate locations of the floor sink and cleanout vent and trap primer. Please provide clear direction on what action SCCI is to take. If the locations are to be moved, please provide exact locations of the floor sink and cleanout.					that they do r reinforcemen provided in th interrupt the t they are local S1-3501 for r bars that are	not conflict with to the floor the RFI, it appears to pars of the meted. Contractor seinforcement receinforcement by floor the	ut of the Fire Pum	l info vill vhere 1 on mat			
T-0547	BGP - North S	hear Wall		Closed	05/09/2013	05/23/2013	05/24/2013	Potentia	lly 🗌		
From: Webcor C	onstruction LP	Ian Corcorran	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger			
Co-Author: Shimmick	Construction Compa	ny, Inc Filip Filipic									
REQUEST: Ref Dwg. 3/S1-3204 Reference detail 3 on the contract drawing S1-3204, and the attached sketches. From the noted detail, it is unclear whether the designer's intent was to construct the foundation wall to North-most shear wall interface monolithic. Please confirm.			SUGGESTION:		ANSWER: We do not ob the north she		gestion: seed construction	joint for			
If the intent of the Designer is to pour shear wall and foundation wall monolithic, it will be difficult to properly secure formwork in the acute corner of the walls interface. Due to the constructability issues of this foundation area											

To: Turner Construction Compan Gary Krutsch

T-0548 **BGP - 3 ft Chamfer at South Foundation Wall**

Ian Corcorran

SCCI suggest to add vertical construction joint to the North shear wall. See attached sketches for reference. Is this

acceptable?

From: Webcor Construction LP

Closed

05/22/2013

05/08/2013

05/22/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger



varies as follows:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 523 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	<u>Procee</u>
Co-Author: Shimm	nick Construction Compa	ıny, Inc Filip Filipic							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. Dwg. S	1-2030, 2/S1-3204, A1-2	110				along the south		-11	
(detail2) and the detail for the south fou	ttached contract drawing A1-2110. Structural dravetermination of the 3 ft chundation wall. CD A1-211 trminates at the face of the structure of the structure.	wings do not show namfer at the end of 10 indicates that the 3			shown on sh Zone 10 Plar 2030. Vertic	eet S1-2060 (Man), and is not inte al bars of pilaste at and the hairpir	west knock-out wa It Top Reinforcemended to show on It reinforcement en It & cross-ties ext	nent - S1- extend to	
	de details and where doe d of the South foundation								
T-0549	BGP - Testing	g of WPM-1 Seams		Closed	05/13/2013	05/23/2013	05/14/2013	Potential	lly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
(Laurenco) a section 07 12 only applies	/10/13 waterproofing med Carl Keim (AAI) clarif 2 10.3.5.B (independent to the Laurenco products tape, and flashings. Ple	fied that specification testing all seams) s i.e. membrane			The Design Tis correct.	Feam confirms th	nat statement in th	ne RFI	
T-0550	BGP - Reques	st to Revise Lower Concou	ırse Elevation	Closed	05/14/2013	05/24/2013	05/24/2013	Potential	lly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geor	rge Metzger	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference E	xhibits: A - G					or's suggestion t	o revise the Lowe		
Lower Conco	C drawing S1-3201 (Exhilourse slab at an elevation and West of grid 3 & No	n of -8'-8" between			contractor is		NOT acceptable. To attions set out on documents.		
the TJPA fro 3/29/11 the 7 541/submitta	ecification section 01 13 or making scope change TJPA returned submittal al ID TA2010-315500A10 ote stating the Lower Cor	es in submittals, on package ID TG0300- (Exhibit-B) which							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

524 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

T/Lower Concourse slab East of gridline 9 = -8'-2" T/Lower Concourse slab West of gridline 9 = -5'-5"

Although specification section 00 07 00.1.01.37 stipulates a Field Order is not to involve a change in Contract Sum or Time, on 9/7/12 after the zone-1 level-B bracing and trestle was installed (Exhibit-C), the TJPA issued Field Order #T-00008 / ASI #0097 (Exhibit-D) which revised the top of the Lower Concourse slab elevation between grid lines 1-5.5 from -8'-8" to -5'-5" a difference of -3'-3" reference sheets S1-3201 (Exhibit-E) and S1-2202 (Exhibit-F).

The latent elevation change of the Lower Concourse slab has created proximity conflicts with the previously installed internal bracing and trestle steel depicted on the attached marked-up drawings (Exhibit-G).

WOJV has surveyed the internal bracing and trestle steel conflicting with the Lower Concourse slab and believes the most cost and schedule efficient solution would be to again revise the elevation of the Lower Concourse slab to -6'-6".

Please advise if the proposed elevation revision is acceptable.

T-0551 **BGP - CR T-069 Wall Penetration Link Seals** Closed

05/28/2013

05/14/2013

05/29/2013

Potentially

From: Webcor Construction LP

Ian Corcorran

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Co-Author: Shimmick Construction Company, Inc Chris Williams

REQUEST:

Ref Dwg. 4/A1-8712

SCCI is in receipt of CR T-069 regarding the below grade modifications. On Plan Sheet A1-8712. Detail 4 was modified to relocate the second link seal to opposite end of the penetration sleeve. Originally, both link seals were located in series at the surface of the concrete wall. This relocation is not constructible in that the link seal cannot

SUGGESTION:

ANSWER: **Accept Suggestion:**

It is acceptable to have the linkseals installed in the sleeves from the inside, with exception of the incoming electrical service ducts to the transformer vaults that are located inboard of the exterior walls. This applies to the sleeves serving electrical vaults B1322, B1325, B1561 and B1562. Because these sleeves must be concrete encased as they enter the building and cross the service corridor, the linkseals need to be provided



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

525 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
embedded sinstalled pricadjacent to relocated liru of the concr	or tightened properly whe sleeve. In addition, this lin or to placing concrete due the CDSM wall. Is it acce nk seal to it's original locat ete wall? This would be p 1-8712, Detail 4.	uk seal cannot be to access issues ptable to return the tion near the surface				gration of water	ndation wall penet through the sleeve		
0552	BGP - CR T -0	069 Electrical Scope		Closed	05/14/2013	05/28/2013	05/29/2013	Potential	llv 🗆
From: Webo	or Construction LP	Ian Corcorran	To: Turner Construction Compa	in Gary Krutsch	Answered By	:Adamson Assi	ociates, Inc Georg		,
o-Author: Shimr	mick Construction Compa	nv. Inc Chris Williams	rumor conocidencia compa	ary radioon	,	71001171001	solution, into Coor,	go motzgoi	
	·	,,	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST: SCCI is in receipt of CR T-069 regarding the below grade modifications. In the modifications, many of the mechanical, plumbing, and electrical rooms have been modified. In some cases, additional rooms had been added like that of the emergency electrical room. With theses changes, none of the electrical drawings pertaining to these rooms or additional rooms had been modified to account for these changes.					deltas on the of include specif (Sheet E1-202	I scope is idention of the scope is idention of the scope is detailed in the scope is scope in the scope is scope in the scope is scope in the scope is scope in the scope in the scope is scope in the scope in the scope is scope in the sco	ified with clouds are uture reference plus and issue informated 04/29/2013)-069 reference us	ease mation as we	
	firm that there will be no e grounding as a result of Cl								
0553	BGP - Examir	nation of Substrate Clarification		Closed	05/14/2013	05/28/2013	05/23/2013	Potential	lly 🗌
From: Webo	or Construction LP	Ian Corcorran	To: Turner Construction Compa	in Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
o-Author: Shimr	mick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specificatio "With manu surfaces to applied prio	rence Specification Section n Section 07 12 10 - 3.1.4 facturer's representative particles in the substitution and water r to beginning work."	A states the following: present, examine erproofing will be			waterproofing	is applied, inclusive specification st	ee to surfaces to wilding the CDSM water	all and	
Please conf mudslab.	irm that this is in referenc	e to CDSM wall and							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

526 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0554	BGP - Field Q	uality Control		Closed	05/14/2013	05/28/2013	05/25/2013	Potentiall	ly 🗌
From: Webcor C	onstruction LP	Ian Corcorran	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
3.5. Specifications S	e Specifications Section of 12 10- 3.5.	states the			superfluous. " shall be prese surface exami	The manufacturent before and defination, protection	and the question e's field represer uring installation' on board installat	ntative ' (for ion, felt	
•	nanufacturer's field re and during installation	•			before the me	mbrane is instal	on and other act lled). Section 3.7	1 also	
"Application" and above Section 3	that this is in reference d Section 3.4 "Flashin .5, A on page 07 12 1 attached for reference	g" which are directly 0-8 of the			substrate exa		resence related t		
Г-0555	BGP - Waterpi	oofing Asphalt Cement W	alnut Sized Gob Spacing	Closed	05/16/2013	05/26/2013	05/23/2013	Potentiall	ly 🗌
From: Webcor C	onstruction LP	Kody Cooper	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Se	ection 07 12 10, 3.2, E	states the following:			Follow the Wainstructions.	aterproofing Mar	nufacturer's insta	llation	
protection board	of asphalt saturated to lin walnut sized gobs ed to hold felts in place	of asphalt cement							
as the shear/slip	nave been informed the plane for structural no plane for structural no plane requirements of the structural transfer of the structure of the s	novement. Please							
Г-0556	BGP - Waterpi	oofing Asphalt Cement Di	ameter of Walnut Sized Gobs	Closed	05/16/2013	05/26/2013	05/20/2013	Potentiall	ly 🗌
From: Webcor C	onstruction LP	Kody Cooper	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick	Construction Compar	ny, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specification Se	ection 07 12 10, 3.2, E	states the following:			The approxim 3/4" min to 7/8		a walnut sized go	ob is	
protection board	of asphalt saturated for the walnut sized gobs	of asphalt cement							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

527 of 1053 10:53 AM

30100

Time:

Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	vide approximate diameter of walnut minimum will suffice).	sized gobs							
Γ-0557	BGP - Waterproofing As	sphalt Cement with	Laps in Felt Layers	Closed	05/16/2013	05/26/2013	05/21/2013	Potentiall	y 🗌
From: Webo	cor Construction LP Ko	dy Cooper	To: Turner Construction Comp	an Gary Krutsch	Answered By:	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Shim	mick Construction Company, Inc Ch	ris Williams							
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
specificatio be fully sea	e to Specification Section 07 12 10, 3 ns do not mention laps in felt layers led in asphalt cement. Please confin are not required.	needing to					aled. Lap ends o	f felt	
Г-0557.1	BGP - Waterproofing As	sphalt Cement with	Laps in Felt Layers	Closed	05/31/2013	06/10/2013	06/03/2013	Potentiall	у 🗌
From: Webo	cor Construction LP Ro	bert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author: Shim	mick Construction Company, Inc Be	n Gordon							
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specification	rence RFI #T-0557 response and ons Section 071210-3.2. RFI #T-0557 at end laps are not sealed, but does a side laps.						t layers. Neither ler laps are to be		
Please con	firm that this applies to the side laps	as well.							
Г-0558	BGP - Waterproofing A	sphalt Cement at F	rotection Board Transitions	Closed	05/16/2013	05/26/2013	05/23/2013	Potentiall	ly 🗀
From: Webo	cor Construction LP Ko	dy Cooper	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	- 🗀
Co-Author: Shim	mick Construction Company, Inc Ch	ris Williams	·	-				-	
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
where the 2 transition, s	ons with the TJPA and Designers, the protection board meets 6" turnout a shall be filled with asphalt cement. Is to fill these "gaps" with asphalt ceme	it the base it			This is a contra		and methods item		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 528 of 1053 11/05/2013 10:53 AM

30100

Time: 10 Job:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0559	BGP - ASI 102	Change Clarification at E	levator Pit Near GL 2-E 2	Closed	05/14/2013	05/28/2013	05/23/2013	Potentiall	у
From: Webcor	Construction LP	Ian Corcorran	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmic	ck Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. Dwg. A1-2812, 1/A1-9214, 3/S1-3006 Revision 0 of A1-2812 previously contained dimensions for the elevator pit near gridlines 4-E.2; however, as a result of ASI 102 revision 1 of A1-2812 no longer contain the dimensions for the elevator pit and the referenced detail 1 of A1-9214 does not either. Please provide the dimensions of the elevator pit. Also, detail 3 of S1-3006 indicates that there is a change in the thickened section of the elevator but it does not appear that there were any changes made. Please confirm if there are changes to the thickened section.					The elevator dimensions have been revised and will be included in ASI 104. Please refer to the attached SKA 2709 (based on A1-9214) for revised dimensions. Thornton Tomasetti response: Detail 3 of S1-3006 is clouded because the pit depth and plan dimensions were revised in ASI 102. While the changes will require only minimal revision of the rebar lengths/bend locations/etc for rebar fabrication, and the structural intent of the rebar detailing remains unchanged, the mat depression region on 3/S1-3006 was clouded to alert the contractor to the need for these dimensional rebar detailing revisions due to the pit resizing. (We agree that on first glance there do not appear to be any revisions to the thickened section of the detail; the revisions are graphical only, and small enough that they are not noticeable except in an aligned overlay.)			ached hensions. It depth While of the ication, remains 1-3006 d for e to the ere do d section and	
-0560	BGP - Grade 6	0 ASTM A-615 Conformin	g Bar In-Lieu of ASTM A-706	Closed	05/16/2013	05/29/2013	05/29/2013	Potentiall	у 🗌
From: Webcor	Construction LP	Ian Corcorran	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmic	ck Construction Compar	ny, Inc Andy Khuu							
place of Grade defined within foundation wal Grade 60 AST properties pub This is not a re bars with Grad ASTM-615 bal	2/S-0007 ses to use Grade 60 AS 60 ASTM A-706 mater RE-2 on sheet S-0007 v lls, columns and momer M A-615 bar shall confo lished in the attached A equest to replace all Grade 60 ASTM-615. Is it acts, when available, that the rebar fabrication pro-	rial in the locations which include nt frame beams. The orm to the strength STM specifications. ade 60 ASTM A-706 eceptable to use would otherwise be	SUGGESTION:		inquired scop the A615 bars submit test da	e of elements pos s meet ACI 318	bars in lieu of A rovided that test section 21.2.5. It ode requirement	data for Please	



See SK-194 for details. The 8" legs of the angles are to be on different surfaces of the concrete causing future stair

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

529 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Γ-0561	BSE - Standard	d for Determining Buttres	ss Concrete Strength	Closed	05/16/2013	05/26/2013	05/20/2013	Potential	ly 🗌
From: Web	ocor Construction LP	Kirk Nielsen	To: Turner Construction Comp.	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUES	T: tion 31 63 29.3.9.D states,		SUGGESTION:		ANSWER: ACI 301 is the	Accept Sug	gestion:		
"Not less to perform Hoto verify the shafts are inspection Represent	than 28 days after concreting Q coring over the full depth the quality of concrete and the free of defects. Provide the pays the TJPA Representative tative will select the location and will select the cores	of 10% of the shafts est whether the ese cores for e. The TJPA's s where coring shall							
	mentioned language in addit 1.6.A which states:	ion to spec. section							
otherwise results red	work in accordance with ACI specified. Specifications he quired and references to proguidelines."	erein set minimum							
determinir	f ACI 301 would be the spen ng the required buttress cond lly ACI 301 section 1.6.6.2) h	crete strength							
	nfirm what if not ACI 301 is and the buttress concrete streple.								
Г-0562	BGP Stair 403	Embed Conflict		Closed	05/17/2013	05/27/2013	05/24/2013	Potential	ly 🗌
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Shir	nmick Construction Compar	ny, Inc Jesse Dillon							
REQUES ⁻	Т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
sketch SK					angle. This ch ASI. Additiona	02 has been re	vised to be an L8 sued in a forthcoron 11/S1-7600 is	ming	
8/S1-7602 edge ofthe	n S1-7011 has a callout for 1 2. Both of these angles are e e stair opening. The location theast and Southeast portion	mbedded in the top s of embeds overlap			required.				



In reference to Specification Section 07 12 10, 3.2, G,

"Install insulation with long dimension horizontally. Secure

The EPS insulation manufacturer recommends the use of

with insulation manufacturer's recommended adhesive."

ADCO Millenium One Step Foamable Adhesive for this

manufacturer has indicated that they will not provide a

warranty for their system unless the adhesive has been

vertical application. The waterproofing membrane

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

530 of 1053 11/05/2013 10:53 AM

30100

Date: 1'

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
installation i	ssues.								
Please prov	ride details on how to procee	d.							
T-0562.1 From: Webc	BGP - Stair 403 B or/Obayashi Joint Venture	Embed Conflict Jackson Tukuafu	To: Turner Construction Compan	Closed Gary Krutsch	08/13/2013 Answered By	08/23/2013 :Adamson Asso	08/21/2013 ociates, Inc. Georg	Potential ge Metzger	ly
Co-Author: Shimr	mick Construction Company,	Inc Ben Gordon							
REQUEST: 1) Please reference RFI response T-0562. Please confirm the 7'-6" long embed per detail 8 on S I -7602 starts from the western edge of the opening, as shown in the attached		-7602 starts from	SUGGESTION:		ANSWER: George Metzg 8/20/2013 RESPONSE:	Accept Sugger	gestion:		
highlighled o	ase clarify embedded angle on attached sketch, where endinger of the second second as shown	mbed as shown on				403, the L8x8 a	01 only (shown c angle shall run th		
detail 11, S1-7600 and embed as shown on detail 8, S1-7602 are specified to be installed at the same location.					L8x4x1/2 x 1'2	" long and (2) ¾	e per 8/S1-8602, t 4" welded studs s d directly to the L	shall be	
T-0563	RGP - Use of La	uranco Adhasiva and Tar	mporary Fasteners as Alternative for I	nsul Closed	05/20/2013	05/20/2013	05/25/2013	Potential	
	or Construction LP	Robert Kjome	To: Turner Construction Compan				ociates, Inc Geor		'y
Co-Author: Shimr	mick Construction Company,	Inc Chris Williams		•	•		,	J J-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Specification	n Section: 071210 3.2 G				Per Specificat	ion Section 07 1	12 10, 1.4, E, 1: t	he	

manufacturer is to supply certificates stating that materials in the system are physically and chemically compatible. This specification statement is clear and question parts 1 & 2 are superfluous; all component manufacturers will need to comply with this section of the specification. The alternative method of installation in part 3 is not acceptable without such certifications and additional fasteners, even temporary are not acceptable.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 531 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
					_		

tested in the same application. Please confirm the following is acceptable:

- 1. The testing data is required for the manufacturer's recommended adhesive for EPS insulation installation.
- Laurenco must approve of the use of every component in the system (protection board layer to insulation layer) even though it is called out to follow the insulation manufacturer's recommendation per the specifications.
- 3. As an alternative to the specification requirements, the Laurenco adhesive (with temporary fasteners and washers) is to be used for the insulation installation, until the insulation manufacturer's recommended adhesive (ADCO) is tested and submitted. Once the manufacturer's recommended adhesive (ADCO) is approved, the ADCO adhesive will be used for the insulation installation in place of the laurenco adhesive.

Please confirm this is acceptable.

T-0564 BGP - Water Treatment for Geothermal Closed 05/21/2013 05/31/2013 06/03/2013 Potentially [
From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc. George Metzger

Co-Author:

REQUEST:

Reference Specification 23 57 34 Sub Section 3.4

During the TG06 IFB process section 3.4 was added to the Ground Loop Heat Exchanger specifications. We believe this requirement is intended for a future bid package during the commissioning of the system. Please confirm. SUGGESTION:

The water treatment scope of work issued in mechanical specification section 23 57 34-3.4 for the ground loop system is intended to be part of the Below Grade Package bid. However, this specific scope of work could be deferred and bid out with the remainder of the water treatment work for the project in the Main Building Package. Turner/TJPA to provide final direction on scope allocation between different trade

Accept Suggestion:

Jeff Thiel:

packages.

ANSWER:

Geothermal water treatment may be deferred until water treatment of the building condenser water piping system, to which the ground loop heat exchanger



T-0567

BGP - Fire Management System

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

532 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

30100 - Transbay Transit Center Project

05/23/2013

06/02/2013

06/03/2013

Potentially

Closed

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
					piping will be connected to in a future scope of work, takes place. CM/GC to leave geothermal system as described in specification section 23 57 34, 3.2.J until treatment takes place.						
Г-0565	BGP - Waterstop	Injection Hose Boxes		Closed	05/22/2013	06/01/2013	05/23/2013	Potential	ly 🔲		
From: Webco	r Construction LP	Robert Kjome	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger			
Co-Author: Shimm	ick Construction Company,	Inc Ben Gordon									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
confirm all W Slab are to be drawing (flush topping slab,	ence attached drawing A1-8: aterstop Injection Hose Box e mounted as illustrated in the mounting these boxes at Mounting these boxes at Moe injection hose system income.	tes in the Mat he attached lation of a future at Slab elevation			Injection Hose mounted flush others), which	e Boxes in the Man at -35'-8". The one will not be determined	nat that Waterstop flat Slab are to be rail bed system (ermined until a fut sions for access to	by cure			
Г-0566	BSE - Zone 2 A-L	ine CDSM Embedded N	letal Part at Soldier Pile 96	Closed	05/22/2013	06/01/2013	05/24/2013	Potential	ly 🔲		
From: Webco	r Construction LP	Lynn Kowallis	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger			
Co-Author: Balfour	Beatty Infrastructure, Inc.	Dean Wallahan									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
	- Field Condition Report (Fi Section 31 56 13	CR) 000013			Acceptable	, ,					
the CDSM wa Corrective Ac object and re	013: "An Embedded Metal pall between Solder Piles 96 ction Plan must be submitted pair the CDSM wall. Spec 3 BBII proposed Corrective A	& 97. A d to remove the 1 56 13." Please									
Please confir	m this is acceptable.										
	· · · · · · · · · · · · · · · · · · ·										



T-0569

From: Webcor Construction LP

BGP - Reinforced Concrete Wall Clarification

Robert Kjome

Webcor/Obayashi Joint Venture

Page: Date: 533 of 1053 11/05/2013

: 11/ - 1

Potentially

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job: 10:53 AM 30100

30100 - Transbay Transit Center Project

				<u> </u>		J			
umber	Subject		_	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webco	r Construction LP	Lynn Kowallis	To: Turner Construction Compar	n Gary Krutsch	Answered By	y :Adamson Ass	ociates, Inc Georg	ge Metzger	
o-Author: Shimm	ick Construction Compan	y, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: 5/E1-6001, E1-2202, E-0006 Per Plan Sheet E1-6001, Detail 5. (attached) the embedded conduits for the fire managment system do not extend above or into the lower concourse floor slab. Additionally, on Plan Sheet E1-2202 for the lower concourse level, Sheet Note A (attached) states that the "scope of work on this sheet is limited only to grounding electrode conductors embedded in slab and main grounding bus (MGB) in the main electrical room." From these two notes, it is clear that the fire alarm system scope is limited to the train platfonn level. However, on Plan Sheet E-0006 (attached) General Note R., "For fire alarm devices, provide embedded boxes, conduit, and pull strings in the lower concourse slab for service to fire alarm devices for both levels".					devices that a Train Platform for the require	are mounted on n level. Refer to ements for the fi	ed to the conduits walls or columns a Sheet E-0006, N re alarm raceways Lower Concourse	at the ote R, s and	
•	uit is to be installed in the								
0568	BGP - Monitori	ng Instrument Sleeves Detail		Closed	05/23/2013	06/02/2013	05/30/2013	Potential	lly 🗀
From: Webco	r Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	y :Adamson Ass	ociates, Inc Georg	ge Metzger	, _—
o-Author: Shimm	ick Construction Compan	y, Inc Ben Gordon		•				-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference D	rawings: 3/A1-8711, 4/S1-	-3009				ctor notes in thi	s RFI, the blockou		
Detail 4 on SI-3009 does not apply to the monitoring instrument sleeves shown on A1-8711. The sleeves are continuous through the Mat Slab, and thus do not require a blockout.					top region of the mat slab per 4/S1-3009 is not required at monitoring instrument sleeves. Contractor shall apply the rebar detailing of detail 7/S1-3009 to both the top and bottom of the mat at these sleeves.				
•	de a typical mat slab reba o the monitoring instrumer erein.								

To: Turner Construction Compan Gary Krutsch

Closed

05/23/2013

06/02/2013

Answered By: Adamson Associates, Inc George Metzger



Co-Author: Shimmick Construction Company, Inc Ben Gordon

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 534 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

10:53 AM 30100

Number	Subject	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
Co-Author: Shir	mmick Construction Compa	any, Inc Andy Khuu							
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the no reference "RCW" w. however, and stairs "RCW" bu which wal RCW. Als fuel tank is	e Drawing: A1-2122 ote on A1-2122, walls called drawings and not in TG06's alls are generally illustrated when referencing the walls an ear gridline 2E, the walls at also illustrated with solid I lis are part of the TG06 pactor, please confirm if the entitorom is supposed to be "RCon as shown.	s scope of work. with dotted lines; for the elevator pit are called out as lines. Please confirm kage and which are ire South wall of the		The walls at the elevator pit and stairs near of 2,E are part of the TG06 package. The entire wall of the fuel tank room is also part of the Tpackage. The referenced enlarged detail 1/A shows the solid walls without the RCW annot The RCW annotation has been removed fror particular walls on drawing A1-2122 and is in ASI 104.					
T-0570	BGP - Unders	side of Beam Embed Conflict		Closed	05/24/2013	06/03/2013	06/03/2013	Potential	ly
From: We	bcor Construction LP	Lynn Kowallis	To: Turner Construction Co	mpan Gary Krutsch	Answered By: Adamson Associates, Inc George Metzger				
Co-Author: Shir	mmick Construction Compa	any, Inc Jesse Dillon							
REQUES	T:		SUGGESTION:		ANSWER: Accept Suggestion:				
Ref: S1-7011, S1-7900/Detail 9, S1-9100/Detail 2, Attached SK-0201 Please see attached Contract Drawing S1-7011 and Sketch SK-0201. Stair opening 403 has stair post plates embedded on the underside of the concrete beams. See S1-7600/D9 for details. The underside of the concourse slab also contains continuous concrete inserts. See S1-9100/D2 for details and A1-2844 for locations. The two embeds overlap on the underside of the beams on the north and south sides of stair opening 403. See SK-0201 for drawing of conflicting embeds. This also occurs on the south side of stair opening 501. Please provide details on how to install the two conflicting					conflict with d concrete inse Please see at updated Cont	letail 9/S1-7600. rt embed location ttached SKA 27	ert in this RFI does The continuous ons have been up 13 to SKA 2717 fo e Insert layout on	dated. or	
	rovide details on how to insign the underside of the cond	ğ .							
T-0571	BGP - New W	aterproofing Install Instruction	ns (Additional Adhesive)	Closed	05/28/2013	06/07/2013	05/31/2013	Potential	ly 🗌
From: We	bcor Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered By	V:Adamson Ass	ociates. Inc Geor	ae Metzaer	



T-0573

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

535 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Inc.'s Installation have found sever Specifications Secalls for an addition concrete. It calls COMPLETED mapplied after wall and (1) to (3) day application for wall ayer is to be approposed to the control of the cont	of Laurenco Waterp Instructions revision ral discrepancies with action 071210. Sectic onal layer of adhesiv for a coat of Laurence embrane and cold joi ply adhesive has cu s in advance of reinf alls. This is added so lied over the comple he Specifications.	dated 5/15/13 and h what is called out in on 8, f, iv, 4, (d), vi ve on walls prior to co Adhesive over int reinforcement ired at least (3) days forcement steel ope as this additional ited membrane and is	SUGGESTION:	ANSWER: Accept St The Contractor is to follow 10 Modified Bitumen water the Manufacturer involvement Questions on the proper into be directed to the water manufacturer. Questions of procedure (Waterproofing I be directed to Laurenco, no RFI.				where tem are llation should	
T-0572		otornroofing Install Instruct	ione (2 day Cura)	Closed	05/29/2013	06/08/2013	05/30/2013	Potential	
From: Webcor Co		aterproofing Install Instruct Robert Kjome	To: Turner Construction C		***************************************		ociates, Inc Geo	Potential	у
Co-Author:			Turner Constitution C	ompan Gary Ridioon		-714411130117133	oolates, me Gee	rge weizger	
Inc.'s Installation have found seve Specifications Secalls for a minimadhere before staplacing concrete	of Laurenco Waterp Instructions revision al discrepancies with action 071210. Section um (3) days wait for the arting the rest of flash	dated 5/15/13 and h what is called out in on 8, f, iv, 5, (d), v top ply to firmly hing details and not called out in the	SUGGESTION:		10 Modified B the Manufactor Questions on to be directed manufacturer procedure (W	itumen waterprouver involvementhe proper instate to the waterprouver Questions on taterproofing Instate in the properties of the waterproofing Instate in the waterproofing Instate in the waterproof in the water	ecification section of the control o	where tem are llation should	

To: Turner Construction Compan Gary Krutsch

Closed

05/29/2013

06/08/2013

Answered By: Adamson Associates, Inc George Metzger

06/11/2013

Potentially

BGP - Locations of Electrical Outlets, Equipment, and Fixtures

Robert Kjome



of 2.5 to 3.5 mils. For the coating hold back areas for the sleeve field weld joints and for any damage coatings that may arise during installation - is a uniform required

mimimum field-applied thickness of 3.9 mils acceptable?

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

536 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce			
o-Author: Shimn	nick Construction Compa	ny, Inc Chris Williams										
REQUEST:			SUGGESTION:		ANSWER:	, tooopt ouggeonem						
Reference Specification 26 05 34, 3.2 B. The exact locations of the electrical equipment are to be provided by the TJPA through the RFI process. With the electrical equipment provided and installed at a later date under a separate contract, please provide the dimensions of the electrical equipment, boxes, and cabinets to allow for accurate electrical riser locations in the concrete slabs. The equipment, boxes, and cabinet dimensions in Zone 1, Area 1 are needed first with the areas to the east to follow.					that is being reguipment is and requires of specific require equipment an 6001 and E1-requirements. position the coelectrical room fixture box lay coordination of	equested, pleases not sufficiently clarification. She ements for coord connections. 6006 provide ad Wireways have onduits stubbing as. Plans locate outs. Specificat f the work and of the sufficiently service of the sufficiently service outs.	the specific informe identify which located in the drawet E1-0006 notes dinating the location Details on sheets ditional locatione been indicated to be only on the embedded light in the embedded light in the contractor's coordies we of the electrical	wings on of E1- on the ght equire nation				
0574	PCP - Field C	alvanizing of Mat Slab Sle	nya Panatratiana	Closed	05/31/2013	06/10/2013	06/09/2013	Potential				
	or Construction LP	Robert Kjome	To: Turner Construction (ociates, Inc Georg	Potential	іу			
	nick Construction Compa	•	10. Turner Construction (Compan Gary Kruisch	Allswered by	-Auamson Asso	ociates, inc. Georg	e Metzger				
REQUEST:	mon construction compe	my, me demi berggien	SUGGESTION:		ANSWER:	Account Sugar	maatiam.					
	Specification Section 05 (5 15-3.3.B	SUGGESTION.		ANSWER: Accept Suggestion: The question asks for clarification of the galvanizing							
Reference Specification Section 05 05 15-3.3.B The shop applied coating thickness for the pin and trestle pile sleeve fabrications is determined to be 3.9 mils per Table 2 in ASTM A 123. Under Section 05 05 15-3.5 the repair/restoration field-applied coating thickness is specified to be 8.0 mils. For field touch-up of damaged areas Section 05 50 10-3.2.D states to apply a thickness					coating repair and for specif in the question question. Res location noted damage coati	thickness required repair or touch is not clear endubrit the quest of the state of	red for a specific linup. The location ough to answer the tion with a more specified joints and for e during installation are asking about	ocation noted e pecific any on" is				

The 8.0 mil repair thickness specified in section 05 05 15 applies to repair/restoration on most items as specified in 05 05 15 / 1.1.A: "zinc galvanic coatings applied in the shop or factory to surfaces of iron and steel installed at exterior locations and either totally or partially exposed to weather, humidity, moisture or precipitation; and elsewhere as indicated and specified." Specification Section 05 50 10 / 2.6 call for Hot Dip Galvanizing per specification section 05 05 15. Specification 05 50 10 / 3.2D applies to field

repair or field touchup of damaged zinc coatings.



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

537 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
	<u> </u>			<u>Grando</u>				mpaoc	77000	
					touchup of damaged zinc coatings at areas covered by specification 05 50 10.					
T-0575	BSE - Micropile R	elocation - E038 (Overhe	ead Obstructions)	Closed	06/03/2013	06/13/2013	08/14/2013	Potential	ly	
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered B	y:Webcor Const	ruction LP Lynn	Kowallis		
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Brandon Miller								
REQUEST: Reference : Attac	hed Sketch		SUGGESTION:		ANSWER: Void RFI T-09	Accept Sugg 575 and Ref to R	-			
•	s laid out cannot be insta struction. BBII recomme									
Please confirm th	is is acceptable.									
T-0575.1	BSE - Micropile R	elocation - E038 (Overhe	ead Obstructions) Revised	Closed	06/04/2013	06/14/2013	06/08/2013	Potential	ly 🗌	
From: Webcor Co	nstruction LP	Lynn Kowallis	To: Turner Construction Compa	an Gary Krutsch	Answered B	y:Adamson Asso	ociates, Inc Georg	ge Metzger		
Co-Author: Balfour Bea	atty Infrastructure, Inc.	Brandon Miller								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference : Attac	hed Sketch					nasetti does not 88 as proposed.	object to moving			
overhead strut ob	s laid out cannot be insta estruction. BBII now reco east 3'4" to be in line with	mmends			ппогорие 200	o do proposod.				
Please confirm th	is is acceptable.									
T-0576	Wall Alignment or	n Westside of Zone 1		Closed	05/31/2013	06/10/2013	06/11/2013	Potential	ly 🗌	
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger		



Reference Drawing: attached.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Thornton Tomasetti does not object to moving

538 of 1053 11/05/2013

Time:

10:53 AM 30100

VENT VENT SILE		30100 - 1	ransbay Transi	t Center	Project			
lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Webcor is proposing to change the alignment of Concrete Foundation wall on the west elevation gridlines 1 & X1-1.				South West C in this RFI, the	DSM walls, as o Design Team o	the Zone 1 West lescribed and illus confirms it is acce nside face of the	strated	
The Concrete wall which runs along gridline 1 v offset into the structure by 0.2656' (3-1/8") (pro Face of concrete Foundation wall would now be gridline 1). Similarly along gridline X1-1 the wal be offset into the structure by 0.1575' (1 7/8") toffsets would enable the contract reinforcement installed without the need for further modification reinforcement due to encroachment of the CDS	posed e 15-1/8" of I would also hese t to be ons to the			Concrete Four	ngiline it of the indation Walls as FI T-0576 BGP.			
See sketch SK-1 showing Cross section of cor Foundation wall between CDSM piles 818 - 822 proposed revised location.								
Please confirm if this is acceptable.								
-0577 BGP - Internal Wall Dis	crepancies 002		Closed	06/03/2013	06/13/2013	06/03/2013	Potential	ly 🗌
From: Webcor Construction LP Ro	obert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	- Ш
Co-Author: Shimmick Construction Company, Inc Fil	ip Filipic							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Drawing: B/A1-9217					onflict with the fu	ture tank lid. The		
Referenced detail shows mechanical opening a C.3 being in conflict with the future tank lid (Not package). Please confirm that this opening is to be constructed.	in TG06			door on the se in front of the	ervice corridor watenk. Please rea	3 is located above all and is more that the concrete wathe plan on A1-92	an 18' all	
called out on B/A1-9217.								
-0578 BGP - Micropile Reloca	ition - W916 (Timber	Pile Obstruction)	Closed	06/03/2013	06/13/2013	06/19/2013	Potential	lv 🗆
·	obert Kjome	To: Turner Construction				ciates, Inc Georg		<i>,</i>
	andon Miller		23				,	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		



Webeel Tobayasın senit Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 539 of 1053 11/05/2013 10:53 AM

Time: Job:

30100

30100 - Transbay Transit Center Project

umber Subje	ect		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Micropile W916 encountered installation. It was moved in of plan location. This does not geothermal piping.	the field and installed 1' west			micropile W9 [,]	6 as proposed.			
Please confirm this is accep	table.							
0579 BGP	- Cross-tie Wall Reinforcing, Grade	e Conversion and Spacing Change	Closed	06/04/2013	06/14/2013	06/10/2013	Potential	ly 🗌
From: Webcor Construction	_P Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
o-Author: Shimmick Constructio	n Company, Inc Andy Khuu							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Drawings: S1-320 Reference Specification: 03						spacing of the fou le due to two rea		
typical wall reinforcing a pot- has been identified. The cor	cted mock-up of the 1st lift of ential problem with congestion tract drawings on sheet S1- einforcing details include #8			reinforcement	cannot exceed 6	d strength for tran 60 ksi. wall cross-ties ar		
horizontal wall reinforcing at Additionally, the #4 cross-tie at either 6" O.C. or 12" O.C	8" O.C. E.F. typical. spacing has been designed			spaced at 6"; violates the sp	the proposed cha pacing requireme	ange to 8" spacinents for transvers bers in ACI 318-	ng se	
the cross-ties and horizonta secured only to the vertical I during concrete placement t	bars, the cross-ties are bars and have the potential bo shift or slide down the							
vertical bars until resting on bar. The inconsistent spacin horizontal bars congests the which may lead to potential concourse level reinforcing	g of the cross-ties and reinforcing configuration problems when interfacing the							

Please advise if this grade and spacing change is acceptable.

ranges.

eliminate these potential problems Gerdau proposes to perform a grade 80 conversion of the cross-ties such that the size of the cross-tie remains as a #4 bar but the spacing of the cross-ties are installed with uniform spacing to the horizontal reinforcing at 8" O.C. within the designed 6" O.C. ranges or 16" O.C. within the designed 12" O.C.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

540 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
T-0579.1	BGP - Horizoi	ntal Wall Reinforcing Equal	Area Conversion	Closed	06/19/2013	06/29/2013	06/20/2013	Potentiall	 ly	
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger	- Ш	
Co-Author: Shimm	ick Construction Compa	ny, Inc Ben Gordon								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: S	31-3201, Spec Section 0	3 30 20			not see slippage of the cross-ties will be a if they are properly tied, and we don't see					
mock-up of the identified a proof the final desheet \$1-320 including #8 I at 8" O.C. E.I. spacing has I depending or the non-unifo bars the cross and have the or slide down adjacent horispacing of the reinforcing coproblems who with the walls conversion for to #7 @ 6" O	Cl's subcontractor) has rehe 1st lift of typical wall rotential problem with coresigned product. The coresigned product. The coresigned product. The coresigned product wall reinforcing. Typical. Additionally, the been designed at either in the location (elevation) orm spacing of the crossisties are secured only the potential during concrete the vertical bars until responsible to the vertical bars until re	reinforcing and reinforcing and regestion and quality reference of the wall with the state of the wall. With the state of the wall with the state of the wall. With the state of the wall wall with the wall with the wall with the wall with the state of the vertical bars are placement to shift esting on the next the inconsistent tall bars congests the ead to potential write level reinforcing ropose an equal area ang from #8 @ 8" OC spacing between the			will help the c don't take exc	ongestion issue	orizontal bar from raised. Howeve oposed change a and schedule.	r, we		
T-0580	BGP - Type 2	Coupler at Outside Vertical	4th Lift	Closed	06/04/2013	06/14/2013	06/08/2013	Potentiall	ly 🗌	
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger		
Co-Author: Shimm	ick Construction Compa	ny, Inc Andy Khuu								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference SI	ketch: attached.						orate an approve	71		
Type 2 couple same plane a	rm it's acceptable to inco ler on the outside face # as the contract coupler ir e final horizontal wall co	11 vertical bar in the name the fourth wall lift			2 coupler on to proposed.	ne outside face	of foundation wa	ıı as		
T-0581	BGP - Interna	I Walls Discrepancies 001		Closed	06/04/2013	06/14/2013	06/07/2013	Potentiall	ly 🖂	
From: Webco	r Construction LP	Lynn Kowallis	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger		



Reference Drawings: 6/A1-8711, 3/A1-8711

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

The dewatering wells shall be capped and sealed in

541 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author: Shimmic	ck Construction Compa	any, Inc Filip Filipic							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Ref: A1-9215,	A1-9216, A1-9217				Please refer t	o attached SKA	-2733 (based on <i>F</i> ased on A1-9217	\1- rev 1)	
and A1-9217. 4/28/2013 , we views, Detail A	ached sketch and CD A Revision 1 of the noted ere used to generate th A on noted CDs A1-921 tails of the interior wall	d drawings, dated his RFI. Elevation I 6 and A1-9217 depict					n wall elevations.	,	
If not able to p	e drawings with consist provide such drawings, s take precedence.								
Г-0582	BGP - Use of	Laurenco Adhesive and Te	mporary Fasteners as Alternative	Closed	06/05/2013	06/15/2013	06/14/2013	Potential	ly
From: Webcor	Construction LP	Lynn Kowallis	To: Turner Construction Com	npan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmic	ck Construction Compa	any, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: RFI #T-05	563 and Submittal #TG	60600-024				•			
Submittal #TG RFI is unclear temporary fast	nce the response to RF 60600-024. The respon . Is it the designer's intended the teners unacceptable wince or are the temporary focations?	se to Part 3 of the ent to deem ith or without the			The use of temporary fasteners are acceptable provided that the contractor and membrane manufacturer verify that their use does not restrict design concept which is to maintain a shear plane.				
Please clarify.									
	he certifications were s 2/11/13 as part of Subm								
Г-0583	BGP - BBII M	onitoring Instruments/Piez	ometers	Closed	06/06/2013	06/06/2013	06/14/2013	Potential	ly 🔲
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmic	ck Construction Compa	any, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



REQUEST:

Please reference the attached drawings S 103.0 and S

104.0 from SCCI's Rev it model. Based on BBII's latest

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

542 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

30100 - Transbay Transit Center Project

ANSWER:

be moved.

Accept Suggestion:

The shear wall and the concrete partition walls cannot

			30100 - ITA	ilisbay Italis	on Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
SCCI is to install BE A 1-8711. In this de the Mat Slab and po the piezometer/mon Is it acceptable to e 3/ A 1-8711 and por slab? The ARUP piezome 3/ Al-8711) after the the water table leve T-0583.1 From: Webcor Cons	tail, the sleeve is to be bured back at a later itoring instrument de iminate the blockout ir the BBII piezomete ters will remain oper e mat slab has been s.	es per Detail 6 of the blocked out of date contrary to estail 3 on A1-8711. The portion of detail ers into the mat reational (per Detail poured to monitor	To: Turner Construction Cor	Closed mpan Gary Krutsch	decommission specifications The piezomet as they will be 3/A1-8711 for If BBI installer waterproofed shall be decor	ers installed by e used until furth detail at the mad piezometers, t in accordance v mmissioned who	Arup shall be pro er notice. Refer	n the otected to detail eved and 711 and 3I. Potentia	
In follow up to a phodetail 3/A1-8711 is to instruments. Since be removed when the please confirm which where the permanent. If the confirm the permanent. If the confirm the permanent.	From: Webcor Construction LP Robert Kjome So-Author:				it is acceptable piezometers, capped and in turned off. Detail 3/A1-87 piezometers a	le to use detail 6 since they will b offilled when the 711 is to be use and extensomet offer the dewater	FI regarding this 3/A1-8711 for the 4 decommission 4 dewatering systed 5 for the Arup 6 ers, as these will	BBII ed, em is	
T-0584 From: Webcor Cons Co-Author: Shimmick Con	truction LP	g Well and Concrete Wall C Robert Kjome Inc Andy Khuu	Conflict To: Turner Construction Cor	Closed mpan Gary Krutsch	06/05/2013 Answered By	06/15/2013 /: Adamson Asse	06/17/2013 ociates, Inc Geo	Potentia rge Metzger	
DECLIECT			OU CO COTION		411014/55		🖂		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

543 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subject Status Impact Proceed

as-built AutoCAD file ("20 13-05-01 BBII Dewatering Well Coordinates.dwg") and SCCI field measurements, it appears that de-watering wells #1, #3, #21 and #22 conflict with the concrete partition walls and shear wall.

Additional information below:

- 1. BBIIs dewatering well layout submittal was approved MCN 5/10/2011
- 2. Dewatering wells in conflict rough installation dates:

Dewatering Well # 1 - 1/18/2012 Dewatering Well # 3 - 1/19/2012 Dewatering Well # 21 - 1/24/2012 Dewatering Well # 22 - 1/23/2012

3. A1-2122 was issued for construction 8-30-2012 placing concrete walls in conflict with previously approved and installed dewatering wells.

Can these walls be blocked out at these locations? Can these walls be moved? Will the dewatering wells need to be relocated (diffiicult as the mud slab has been already poured in these locations)? Please advise as to how to proceed.

Dewatering wells at partition walls in this RFI may be blocked out.

The structural shearwall at dewatering well #3 was reflected in TG0600 BGP documents before dewatering installation which should have been coordinated between packages by the Contractor. Contractor has the option to move dewatering well #3 or provide a block-out (take special notice of note 3 below).

The following comments apply for block-outs:

- Refer to General Note GR-9 on S-0005 for additional block-out information.
- Contractor to propose/incorporate block-out reinforcement into shop drawings for review and approval.
- Note that the shearwall at dewatering well #3 provides lateral stability for the west end wall when the cross-lot bracing is removed. The re-bracing will need to be re-designed to relieve the load off of the blockedout shearwall and submitted for review.

Γ-0584.1	BSE - Abandoning I	Dewatering Well #3 at Sho	earwall	Closed	07/25/2013	08/04/2013	07/26/2013	Potentially	
From: Webcor Const	ruction LP	Robert Kjome	To: Turner Construction Compan Ga	ry Krutsch	Answered By:	Adamson Assoc	ciates, Inc Georg	e Metzger	

From: Webcor Construction LP

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Co-Author:

REQUEST:

Reference RFI: T-0584

Reference SK-001 and SK-002

BBI is proposing to abandon the dewatering well #3 at the mudslab level. This will mitigate the impact of shear wall dowels and penetration sleeve in the vicinity of the mat slab penetration created by dewatering well #3, in lieu of creating a blockout in the shear wall and designing rebracing to address structural concerns.

ANSWER: **Accept Suggestion:**

It is acceptable to abandon dewatering well #3, however the Design Team is concerned that the contractor's proposed solution, to cut off the plugged well flush with the top of the mud slab, may expose the underside of the waterproof membrane to potential damage due to differential movement. All of the mat slab penetration sleeve details were developed as mitigation in case potential movement occurs e.g. buovancy movement.



From: Webcor Construction LP

Co-Author: Shimmick Construction Company, Inc Filip Filipic

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 544 of 1053 11/05/2013

Time: Job:

Answered By: Adamson Associates, Inc George Metzger

10:53 AM 30100

30100 - Transbay Transit Center Project

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
						hat the mud slab i		
BBI has discussed this with Viking Dr confirmed they can abandon this well cut the pvc casing flush with the top c epoxy #4 bars 2" down from top of ca embedment. The bars will be installe east, and west face through the casin better ensure the dewatering well cen	BBI is proposing to foundslab, drill and sing with 3" d in the north, south, g and are installed to nent plug does not			the underside cut off and fill Styrofoam ins plugged dewa	e of the mud slat led. Compressib stalled into the e atering well. The	v a 4" excavation I b. The dewatering le material: 4" of xcavation and ove n the opening in n nforced concrete in	well r the nud	
upheave. They will use Type II Portla 5% bentonite content. Waterproofing over the dewatering well, lapping as radjacent waterproofing.	will then be installed			Note that BBI the dewaterin		sponsible for mair	ntaining	
Please confirm that this is acceptable								
-0584.2 BGP - Dewate	ring Well & Concrete Par	tition Conflict	Closed	07/30/2013	08/09/2013	08/08/2013	Potential	lly
From: Webcor Construction LP	Ryan Burke	To: Turner Construct	tion Compan Gary Krutsch	Answered By	y: Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: RFI T-0584, Attached ske Please refer to RFI 584 and the attac proposed block out in concrete partition	hed sketch of the					e dewatering well acceptable provide		
referenced in RFI 584. The 28" x 28" slab will be transferred to the blockou 25" from the mat slab elevation to the	blockout in the mat t of the wall and be top of blockout. This			Confirm the at these locat		e for max height p	artition	
will create 3'-0" from top of penetratio wall blockout. We are proposing to us the male ends will extend the length of	e formsavers and			2. Extend the into the top of		the block-out a mi	n 4"	
Please confirm this is acceptable or p solution.	rovide acceptable							
0505 PCP Moss C	anarata Specifications		Closed	06/05/2012	06/05/2042	06/42/2042	Potential	

To: Turner Construction Compan Gary Krutsch



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 545 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

: 10:

30100 - Transbay Transit Center Project

Number	Subject			Status	Created	Date Required	Answered	Cost <u>Impact</u>	Procee
Reference a SCCI is ask requiremen variance wo temperature both the Pro placement. The intent of	ans Section: 03 30 20 3.5 8 attached letter from CTL Graining for variance to the tents for the mat slab concrete ould be based on performate differential limit (PBTDL) oject's mass concrete mix Refer to the attached letter of this PBTDL is to prevent same time reduce duration direment.	perature differential e. If granted, this nce based , which is tailored to design and the from CTL. thermal cracking,	SUGGESTION:		performance- approach for some following: 1. To specific. 3. To well as remain requirements 4. Common measurement 4. Common for providing as series as series.	chased temperates pec section 3.1 This approach so the maximum tening mass concurrence shall still apply. CTL shall provides as well as field	e contractor-propoure differential lim 1.B provided the nall be approved in emperature of 3.1 rete specification e the required differential control. still remain respons that meets	nit mix- 1.B as	
T-0586	BGP - Fire Ma	nagement System and Co	ncourse Slab Electrical Scope	Closed	06/05/2013	06/05/2013	06/17/2013	Potentia	Ily 🗌
From: Webo	cor Construction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Shimi	mick Construction Compa	ny, Inc Chris Williams							
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		

REQUEST:

Reference Drawing: E-0006, E-0000, 6/E-2202

Reference RFI: T-0567

Per the response to RFI T-567, the fire management system conduit is to be installed into the concourse slab per Note on Sheet E-0006 . However, per Plan Sheet E-0000, only a small grounding portion of electrical drawings are in the TG06.0 concourse slab scope. The remaining concourse level electrical drawings are "For Reference Only" and for informational purposes only. Please confirm that the only TG06.0 electrical scopes in the concourse slab are the grounding wire extensions from the mud slab (per Detail 6/E 2202-TG06.2 scope), lighting conduit and boxes for Type "F15" and Exit Signs, and 4" 90 degree elbows per Details 1 & 2 on TE 1-8000. Please confirm that outside of those scopes, all other electrical scopes of

WSPFK Response: Per sheet note J on Sheet E1-006, the scope for TG06.0 shall include fire alarm system conduits embedded in the Lower Concourse slab that are required to serve fire alarm equipment that is located at the Train Platform level. Note that conduits for fire alarm devices on the Lower Concourse level will be provided under a separate scope package.



Page: Date:

10:53 AM

546 of 1053 Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Job: 30100

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
electrical scope	ncourse slab are to be package as indicated of formation only" plans.								
-0586.1	BGP - Fire Mar	nagement System in the Co	oncourse Slab Only	Closed	07/12/2013	07/22/2013	07/19/2013	Potential	ly 🗌
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Co	mpan Gary Krutsch	Answered By	y: Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmic	ck Construction Compan	y, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
that the only sl concourse slat out of the cond management s	nse to RFI T-567 (attached lab with embedded fire so both All stub ups or risers we course slab for the concessystem or drop down out the management system of the concession	system conduit is the will either come up ourse level fire t of the concourse			The contractor embedded in Foundation M	or can route the either the Lowe lat Slab as requ o the fire alarm	s' means and me fire alarm condui r Concourse slab ired to provide devices shown or	t or the	
	n that the fire manageme he mat slab.	ent system is not							
-0587	BGP - Future T	rain Platform Wall Reinfor	cing Size and Spacing	Closed	06/05/2013	06/15/2013	06/16/2013	Potential	ly 🗀
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered By	y: Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference RFI	:T-0480					e dowels for fut	ure train platform		
walls using the the specific zon the wall thicknet S1-3205 Futurn is called out for reinforcing req	r is to construct the future thickness of the wall as ne sheet (1'-0" or 1'-2"). ess called out in the Plare Wall Detail no specific or the 1'-2" thick walls. Pluired for the 1'-2" walls in a 12" wall, #6 @ 8" oc.	s called out within When coordinating n with Detail 5 on bar size or spacing lease confirm if the			walls that are	1'-2″ thick are ≇	±6@8"OC each fa	ace.	
S1-3205 Future is called out fo reinforcing req	re Wall Detail no specific or the 1'-2" thick walls. Pl uired for the 1'-2" walls i	bar size or spacing lease confirm if the							

To: Turner Construction Compan Gary Krutsch

Closed

06/06/2013

06/06/2013

Answered By: Adamson Associates, Inc George Metzger

06/10/2013

Potentially

BGP - Future Partition Wall Dowel Size Spacing

Robert Kjome

From: Webcor Construction LP



13 01

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

547 of 1053 11/05/2013

Time: Job:

document.

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author: Shim	amial, Canata atian Campa	ny Ing Dan Cardon							
	nmick Construction Compa	ny, inc ben Gordon							
REQUEST		" Doutition Walls and	SUGGESTION:		ANSWER:	Accept Sug			
12" Future provides th which depi wall. Per S reinforcing	rawing S1-2052 depicts 12 Partition Walls. Contract of the reinforcing details for the ct #7 @ 12" OC reinforcing 1-3205 Future 12" Walls redowels. Please confirm th Partition Wall dowels.	Irawing S 1-9050 Partition Walls dowels for a 12" eceive #6 @8" OC			per S1-9050	as they are labe	itions" shall be re led as partition w walls within the t	alls.	
-0589	BGP - Epoxy	Coating Thickness Over F	ormsaver Couplers	Closed	06/06/2013	06/16/2013	06/17/2013	Potential	ly 🗌
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered B	:Adamson Ass	ociates, Inc Geor	rge Metzger	
Co-Author: Shim	nmick Construction Compa	ny, Inc Ben Gordon							
REQUEST	1:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference:	: 6/S1-3001, Attached Lette	er				nd that the epox	y-coated form-sa		
saver coup ASTM A 77 thickness s different siz sizes 3 to 5 however, d coating thic letter from Erico (Lent specified fo mill coating requiremer that supply meets the	nse to RFI T 0515 confirmed blers for future construction 75. Per ASTM A 775, the specifies a required thickness pecifies a required thickness becaused 75 and 7 to 16 mills for bar seletail 6 on S1-3001 indicate ckness over the couplers. I Stanley Johnson the Region) the epoxy coated formor use cannot be procured gout rather an epoxy coating an epoxy coated form-ASTM A 775 standard but ess than 12 is acceptable.	as specified in tandard coating ess range by which to 12 mills for bar sizes 6 to 18; es a 12 mill minimum Per the attached onal Manager for saver couplers with a guaranteed 12 ng that meets the ndard. Please confirm saver coupler that			thickness les		may contain a mi still complying wit ptable.		
-0590	BGP - Mechai	nical Room Plumbing Cla	ifications 002	Closed	06/06/2013	06/16/2013	06/12/2013	Potential	ly 🗌
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor		
Co-Author: Shim	nmick Construction Compa	ny, Inc Ben Gordon					•	- 0	
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference:	: Attached Drawing, P1-20	22, Spec Section 22			See the WSF		ts on the attached	t	



Reference attached drainage drawing P-113. Please verify marked up dimensions for pipes spacing.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

drain to be located with the center line 12" from the face of the column (or wall for stair 203) and then 12"

548 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM

30100

JOINT VENTUR	E	30100 - T	ransbay Trans	sit Center	Project	•		
Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
112. Per the marke or provide following 1. Invert elevations 2. Verify dimension attachment.	d mechanical room layout drawing P- ed up referenced drawing please clarify i: of the piping connecting the sumps. is of the pipes spacing and offsets, per hs of the equipment pad.							
T-0591	BGP - Mechanical Room Plumbin	g Clarifications 001	Closed	06/06/2013	06/06/2013	06/11/2013	Potential	ly
From: Webcor Cons	struction LP Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick Co	onstruction Company, Inc Ben Gordon							
13 01 Reference attached	ed Drawing, P1-2022, Spec Section 22 d drainage layout drawing P-110. ed up dimensions for the pipe spacing.	SUGGESTION:		Comments: 1. The "1/2 Scorrected to s 2. All vent conshall have the pipe center lie	SAN" shown for the show 1/2" trap propertions to hobein inverts taken the downstream of Generally, this is	cing are acceptab	e pipe inage vented	
REQUEST:	BGP - Mechanical Room Plumbin struction LP Robert Kjome onstruction Company, Inc Ben Gordon and Drawing, P1-2022, Spec Section 22		Closed Compan Gary Krutsch	ANSWER: For the stairs vent piping or	Accept Sug 202 and 203 the connections. (1)	06/12/2013 ociates, Inc Geo gestion: ere are only (2) d 6" sprinkler drain -6001). The 6" s	rain and and (1)	ly



REQUEST:

Reference Specification: 03 20 02 2.6

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

549 of 1053 11/05/2013

Time:

10:53 AM 30100

ANSWER:

Accept Suggestion:

1) Verify these bearings are within the scope of the

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					drainage pipe the drainage	connections to hor r inverts taken off downstream of the enerally, this is e wye fitting.	ten off above m of the trap is is		
T-0593 From: Webcor Cons	truction LP	te Clear Cover of Reinforcii Robert Kjome	ng Support Bars To: Turner Construction	Closed Compan Gary Krutsch	06/06/2013 Answered B	06/16/2013 y :Adamson Asso	06/11/2013 ociates, Inc. Georg	Potential ge Metzger	lly
	5/S1-3001, Spec confirm that non are to maintain the ified in detail 5 on designated clear of	Section 03 30 20 -contract reinforcing ne required concrete S 1-3001 and not	SUGGESTION:		achieve at mi 5/S1-3001. We note that (which is the required clean larger bars, a otherwise not typical continum Rebar Note 7 5/S1-3001 is cover for carriclear to typical	for concrete case condition at the rever per 5/S1 and 1.5" for #5 ared. While the cuous bars is to be on S1-2022, the appropriate to usy bars, provided al continuous bo	ers for carry bars so recover requirement against waterprobottom of the mathage against bars, ulear cover to bottom of the mathage against waterprobottom of the mathage against waterprobottom against water for #60 and #60	nts of poofing) the or nless om ow ver of clear he 3"	
T-0594 From: Webcor Cons Co-Author:		um Bearing Specification Robert Kjome	To: Turner Construction	Closed Compan Gary Krutsch	06/07/2013 Answered By	06/17/2013 y :Adamson Asso	06/14/2013 ociates, Inc Georg	Potential ge Metzger	lly



REQUEST:

See attached drawing CB-2 of returned submittal package

TG0600-710, P1-2025, and A1-2125.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

550 of 1053 11/05/2013

30100

Time: 10:53 AM

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

The sump pit at grid lines 19/C is located within an

escalator pit. Frame and grate are not required.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
part of the TG07. existing W/O sub- includes Pendulu	1 IFB set dated 2/1 contractors for cons m Bearings . Pleas ting the location and	o W/O on 4/26/13 as 9/13 to be issued to struction. 03 20 02 2.6 se provide drawings d quantity of			located at Gr concrete mer 2) Location of 2/S1-3302. D column types	idlines 34 and 35 mbers. of Pendulum Bea Detail 2/S1-3302 or C10 and C	re Package. They 5, used between t rings is provided i is associated with 11 (refer to Colur	n Detail three	
	rm any placement a rrings and structure	and attachment details			Schedule). Performance requirements are provided in Section 2.6 of Specification 03 20 02. Also see Sections 1.3, 1.4, 3.2 of the same Specification for other requirements on pendulum bearings. Attachment details are per manufacturer's recommendations.				
T-0595		. •	Personnel Hoist Concrete Pad	Closed	06/10/2013	06/20/2013	06/11/2013	Potential	ly
From: Webcor Co Co-Author:	nstruction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Geor	ge Metzger	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attach	ned Drawings					nse: Please prov	ide the structural		
Please see the attached drawing of the proposed manlift pad to be installed flushed with the mudslab in Zone 2. Per WSP/Flack & Kurtz the dimension of soil between mudslab and top of geothermal pipe must be maintained at all times. It was stated that the geothermal piping could be installed 12" deeper as long as the rise of the pipe follow the radius loop bend requirments, in the method that the geothermal is installed in the sump pits. Please confirm that this is acceptable.				weight of the pounds per s		and concrete pac	a in		
T-0596	BGP - Sump	Pit Grate and Frame at Gri	dline 19/C	Closed	06/11/2013	06/21/2013	06/20/2013	Potential	lly \square
From: Webcor Co	nstruction LP	Jackson Tukuafu	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick C	Construction Compa	anv. Inc Jesse Dillon							



Co-Author: Shimmick Construction Company, Inc Ben Gordon

Per response to SCCI's RFI 215 (T-0597) see attached

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Accept Suggestion:

The forklift identified in the RFI is acceptable for use

ANSWER:

551 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
drawing su pit grating at approx. drawing P1 frame at th the sump p level. Per receive gra Please cor grate and f		catch basin and sump inp pit grate and frame if. The contract ill-out for a grate and drawing A1-2125 has tor pit in the mat slab is scalator pits do not incomplete the contract of the contr	nstruction Loads	Closed	06/11/2013	06/21/2013	06/12/2013	Potential	lly
	ocor Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST			SUGGESTION:		ANSWER:	Accept Sug			
Please cor forklift with and rated I level deck is intended installation exceed the the structu	Attached Documents Infirm it is acceptable to use an approximate operating load capacity of 6,000 lbs of without temporary shoring of for use on the concourse of wall reinforcing steel. See capacity of the structure pure's load capacities without ternate equipment selection		on the contraction maximum would want T	ct document S-1 fork-lift wheel re	urse level floor is 002. Provide info action If the contrel floor framing for	rmation act			
T-0597.1	BGP - Conco	urse Deck Capacity for Co	astruction Loads	Closed	06/28/2013	07/08/2013	07/09/2013	Potential	
	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Compa				ociates, Inc Geor		·,



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 552 of 1053 11/05/2013 10:53 AM

Time:
Job:

30100

30100 - Transbay Transit Center Project

Number Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
axle loadings for Sky Trak forklift forklift is intended for use on the the installation of wall reinforcing steel. Please confirm if it is acceptable top of concourse slab.	concourse level deck for			response is for only and does loads that ma use. Please refer t	or the forklift and S NOT consider a y be present at t	e slab. NOTE that its carrying capace additional construction that time of this for 0597 response for edesign loads.	city ction klift	
T-0598 BGP - Fi	re Management System Class A	A vs. Class B	Closed	06/12/2013	06/22/2013	06/15/2013	Potentia	lly 🗌
From: Webcor Construction LP	Robert Kjome	To: Turner Construction	n Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmick Construction Co	ompany, Inc Ben Gordon							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
After consulting with Siemens or system a clarification is needed. sheet El-5201 shows Class A corplatform level and the lower con Class A wiring layout limits the sidevices per circuit. Under the Ni specification, the embedded (not fire management conduit protect fire conditions and Class A isn't specification. Is it acceptable to management conduit system to specification under Class B requor 7 strobe devices per circuit in devices per Class A. By implime the future fire management syst future contract) will be less cost NFP A 130 requirements. Please advise.	n the fire management The riser diagram on onduit routing for the train course level. Using a system to 3 or 4 strobe FPA 130 6.3.3.2.8 te (1) of the specification) ts against the ASTM E119 required per NFP A design the fire meet the NFP A 130 uirements and impliment 6 stead of the 3 or 4 stobe enting a Class B system, em (installed under a			requirements design of the achieve Class communicatic at the Train P Level. Althout conduit where design that we rated cable for device, since planned for es listings voided wiring will pro	for Class A wiring conduit systems as A wiring for the on circuits that whatform Level anyth we have design possible, we can embed or om the source fire rated cattension of the cat. Embedment a wide the required	the Specification ag shall apply. The shall be configure fire alarm ill power the strob d Lower Concours gned for embedde annot assure in the provide approved re alarm panel to ble systems that vircuits have had the nd layout for Clast d protection to me polity for the life of	ed to elights se ed e future fire the end evere neir s A et code	

T-0599 BGP - Continuous Concrete Insert Elevations

Closed

06/13/2013 06/23/2013

06/21/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

From: Webcor Construction LP



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 553 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refere	ence: Attached Documents, Drawii	ng A1-6231				the attached S	KA -2745 which		
TG060 comm- continut reques In the inserts require agreed SCCI v cast-in	e reference the attached - clouded 00- 110 BGP -Concrete Formwork ent regarding the elevation of the uous concrete insert. The submitte sts an adjustment of the concrete attached RFI T-0506 the elevation were given to accomplish equal sed by the drawings, as well as incest upon adjustments to the top and would like to verify that the given entered elevations.	Lift #1 sheet, cast-in-place al comment insert elevations. as of the concrete spacing as orporate the bottom insert. elevations of the			confirms the e inserts.	levations of the	continuous concr	ete	
-0600	RGP - Internal W	/all Discrepancies 003		Closed	06/17/2013	06/27/2013	06/24/2013	Potential	llv 🖂
	Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Company						шу
	Shimmick Construction Company,		To: Turner Construction Compan	Gary Kruisch	Allsweled by	-Auamson Asso	ociates, Inc Georg	ge ivietzger	
	, ,	inc ben Goldon							
REQU		047 Jac-11 D	SUGGESTION:		ANSWER:	Accept Sug			
Refere	ence attached marked up CD AI-92	217 detail D.				ned SKA-2743 v to the Detail Ele	vnicn snows vation D on A1-92	217 for	
D. The mome	enced detail shows openings in the ese openings appear to be in confl nt beam that runs along GL D. e clarify.				the Mechanica along GL D.	al Opening adju	sted for the beam	CD-15	
-0601	BGP - Internal W	all Discrepancies 004		Closed	06/17/2013	06/27/2013	06/24/2013	Potential	lly 🗌
From:	Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:	Shimmick Construction Company,	Inc Ben Gordon							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refere	ence attached marked up CD A 1-	9217 detail E.				ned SKA-2744 v	vhich shows		
and G mome	enced detail shows openings in the L D. This opening appears to be in nt beam that runs along GL D. e clarify.	e wall near GL5 n conflict with the					evation E on A1-92 sted for the beam		



T-0604

From: Webcor Construction LP

#2 CPH Platform through Mat Slab in Zone 2

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

554 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0602	Arup Monitoring I	nstruments		Closed	07/02/2013	07/12/2013	07/17/2013	Potentially	у 🖂
From: Webcor Const	ruction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	orge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawings: BBII's dewatering we Detail 6 on Sheet A1 wells and piezomete dewatering has been A1-8711 does not pr piezometers will be p team intend on leavi the dewatering is shu 3/A1-8711 clarifiying	ells and piezometers a -8711 which clearly s rs will be filled and ca decommisioned. De ovide any indication to blugged and/or filled. In g these piezometer I at off? If not, please p	are installed per shows how the apped after the tail 3 on Sheet hat these Does the design holes open after provide a revised			to function for been complet detail 3 / A1-8 this time. The instrumer pipe. A seal b provided by the are decommis opening seale	a few years afted, therefore will 711. No addition that a steel two linkseals. Is sioned, the cond. Then a steel the top of the sleet.	priezometers will er the entire buil li remain as sho mal detail is requere inside a 2" diave and the pipe. When the instruction is cut off arcap is fully welcome.	ding has wn on uired at a steel is uments id the led to the	
-0603	BSE - Beale PG&E	E Utilities		Closed	06/19/2013	06/29/2013	07/01/2013	Potentially	у 🗌
From: Webcor Const		Lynn Kowallis	To: Turner Construction Compan	Gary Krutsch	Answered By	Transbay PMF	PC Dou	ıglas Jacobsor	า
Co-Author: Balfour Beatty	Infrastructure, Inc.	Rodney Gordon							
REQUEST: Refer RFI T-0286 Specification Section Please reference W/ street BBII was direct to be used with the 6 weight of 3 lb/ft for fil PG&E conduit). BBII PG&E conduit. 1. Please confirm that Street will contain a 8 2. Please clarify the PG&E conduit on Be	O RFI T-0286. For Fited to use a cable we conduit. BBII was so per cable used in 4" codoes not have a cable the 6" PG&E conduit. BBII was sold the fited by the fited by the cable.	eight of 8.2 lb/ft upplied with a conduit (not le weight for 4" uit on Beale	SUGGESTION:			nduit + conducto	gestion: U		

To: Turner Construction Compan Gary Krutsch

Closed

06/20/2013

07/28/2013

Answered By: Adamson Associates, Inc George Metzger

Potentially



From: Webcor Construction LP

Co-Author: Shimmick Construction Company, Inc Ben Gordon

Jackson Tukuafu

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 555 of 1053 11/05/2013

Date: Time: Job:

Answered By: Turner Construction Comr Jeff Thiel

: 10:53 AM 30100

30100 - Transbay Transit Center Project

lumber Subject	<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:						
REQUEST: SU	GGESTION:	ANSWER:	Accept Sug	gestion:		
Please see the attached shop drawings and layout of the construction personnel hoist (CPH) to be installed in Zone 2. The CPH elevated steel PLATFORM to be installed and later removed and poured back such as the trestle pile penetrations.		The proposed described in the Team.	d Zone 2 person	nel hoist installation	on n	
All work dimensions have been coordinated with structure overhead into future bid packages as well as as-built information of internal bracing in the field.						
We propose to :						
 Lower the geothermal piping an additional 12" to maintain the same 15" deep trench under all concrete. This will be performed the same way they install the piping in the sump pits with correct bend radius. 						
2) Install at 19'-6" x 13'-0" x 16" thickened slab incorporated with the current 4" reinforced mudslab. The thickened slab will contain #5 bars 12" OC EW T&B and we have confirmed that the total load of thickened slab, CPH, and platform will not exceed 500 PSF.						
3) Install CPH elevated steel platform through the mat slab with 3'-0" of clearance between top of mat slab and bottom of platform deck and beams.						
4) Waterproof platform legs per detail 5/A1-8711 04/29/13 per ASI 0102 Issued for Construction, Below Grade Package, including galvanized penetration sleeves and waterproofing. Penetration sleeve will be 30" diameter.						
 Reinforcing details will be the same as all other reinforcing at pin/trestle pile blockouts. 						
Please confirm this is all acceptable.						
-0605 BGP - Plumbing and Electrical Autocad Files	Closed	06/21/2013	07/01/2013	06/27/2013	Potentia	

To: Turner Construction Compan Gary Krutsch



T-0607

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

556 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

luml	ber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	Auto cad files for the F (E1-series) drawings f be used for Reference	e only and will not be us derstands that the Aut	nd Electrical e files would sed for ocad files are			case basis. Co and provide the distribution of information re-	ontact the TJPA e nature of the Autocad files. W	ad files on a case Engineering Ma request and final /e understand th drawings that ha	nager at the	
-060)6	BGP - Mat Slab Pour	r and Bracing Remov	al- Area 1 to 4	Closed	06/21/2013	07/01/2013	06/28/2013	Potential	ly
	From: Webcor Constru	uction LP	Jackson Tukuafu	To: Turner Construction	Compan Gary Krutsch	Answered By	:Webcor/Obaya	shi Joint VeSper	icer Sayles	
Co-A	Author: Shimmick Cons	truction Company, Inc	Ben Gordon							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	REQUEST: Reference: Spec Section 01 13 00 The latest Webcor's weekly update schedule received by SCCI (Data date 06.17.2013), shows that Balfour Beaty (BBII)'s activity "Bracing Removal- Level D- BBII- Z1 A1", in Zone 1, area 1 cannot commence until the completion of Webcor's activity "Mat Slab Cure- Z1AI ".The same relationship exists between the two activities for Area 1 to Area 4. Preliminary rough analysis done by SCCI suggests that there is not sufficient sliding resistance to permit the slab in each area to act as effective support for the base of the shoring wall when the lowest level of bracing is removed in that area. The preliminary analysis also suggests that bracing removal level D in Area 1-4 should not commence until the entire mat slab in Area 1-4 are in place.					cannot be per	formed until reb	ne requested ana racing submittals ctor and reviewed	are	
	each area, independed 2. SW Comer bracing Areas 1 &2 are poured	in the schedule between Mat Slab Cure can be not of any other areas. Ievel D could be remoded and cured at Level 2 could be remoded.	en the Bracing e performed in ved if only							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 557 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Shimmic	ck Construction Compar	ny, Inc Ben Gordon	To: Webcor Construction LP	Jackson Tukuafu	Answered B	y:Webcor/Obaya	ashi Joint V∈Sper	ncer Sayles	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
SCCI (Data da * "Bracing Rer predecessor to 4000)- in each * "Bracing Rer predecessor to 4110)- in each * "Bracing Rer predecessor to 6010) in each Based on the to be modified each area, sep E.g: Any waler during remova waterproofing	moval- Level E" (BGSO) o "Wall Waterproofing- 2 area moval- Level B" (BGSO) o "Wall Waterproofing- 3 area current schedule logic, to allow the removal of parately and independer is spanning two areas will ofbracing so seer can install in that area, withorea. This is applicable to D.	chat: (<-1120) is the driving (<-1120) is the driving (<-41 00) is the (<-6000) is the (<-6000			please provid schedule and are anticipate	de a detailed wal d indicate where	ay's schedule me I pour sequence specific waler co ble to perform an	nflicts	
-0608	Dotail of transi	ition between modified rei	nforcement to contract reinforceme	ent Closed	06/26/2013	07/06/2013	07/28/2013	Potentia	
	Construction LP	Michael Spillane	To: Turner Construction Compa				ociates, Inc Geo		
Co-Author:			ramer denomination dempt	an Cary materia		, , , , , , , , , , , , , , , , , , , ,	Joint Joy	.goot_go.	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Do	cuments: Exhibits A - C,	RFI SCI# 236				d foundation wal	I reinforcement tr	ansition	
This RFI addresses the transition between modified reinforcement to contract reinforcement at GL6 at the south west corner see Location Plan exhibit - A Exhibit - B (RFI- T-0448.5) proposed the modification of the reinforcement and this detail exhibit C clarifies the exact location and detail where the modified reinforcement changes to the contract reinforcement This detail if approved would be incorporated into the TG06 shop drawings Please confirm if this detail is acceptable					is acceptable	5.			



= -42') = 67' X 1/200 (CDSM pile vertical tolerance) = 4"

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

558 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

lumber		Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0608.1		BGP - Revised S	Spacing to Foundation Wa	all Vertical Reinforcement in Area 2	Closed	10/10/2013	10/20/2013	10/14/2013	Potential	ly 🗌
From:	: Webcor Constru	iction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger	- Ш
Co-Author:	: Shimmick Cons	truction Company	, Inc Ben Gordon							
REQU	UEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
betwe			ıl reinforcement, d at 6" OC instead			George Metzg 10/11/2013 RESPONSE: Please resubr	er	the sketch refere	enced in	
		-built vertical wall ne attached sketch				the question.				
-0608.2		BGP - Revised S	Spacing to Foundation Wa	all Vertical Reinforcement in Area 2	Closed	10/14/2013	10/24/2013	10/18/2013	Potential	ly 🗌
From:	: Webcor Constru	iction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:	Shimmick Cons	truction Company	, Inc Ben Gordon							
REQU	UEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
A 16-betwee of the Pleas spaci	een GL 6 and 7, I e required WR1 s se confirm the as	Area 2 wall vertica has been installed pacing (8" OC). -built vertical wall he attached excerp	d at 6" OC instead				al wall reinforcer eptable. Please	ment spacing inc incorporate this		
-0609	·		ver to the Vertical Reinford	cement on the Foundation Wall	Closed	07/03/2013	07/13/2013	07/10/2013	Potential	
From:	: Webcor Constru	iction LP	Michael Spillane	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:	:									
REQU	UEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
At sor reinfo of the 180.1 up 8"	orcement on the f e 2" shown on de I (see Exhibit - A) at the interface b	clear cover to the oundation wall will tail 1/S1-3201. Ba	Il be far in excess ase on the RFI T- could potentially be dation wall at lower			waterproofing reinforcement 6 inches, eval basis. Submit exceeds 6". For thickness can foundation wa	eptable clear co system and fou is 6 inches. For uation will be m information for or this calculation be assumed 2 ill reinforcement	over between the ndation wall vert clear cover larg ade on a case by review where clean, waterproofing nches and locatican be assumed	ical er than / case ar cover on of	
Existi	ing grade elevation	on = +25' + (prote	ction slab elevation			indicated in co	ontract drawings			



Following up with the response to RFI CN-005 please

1. Please advise if steel pipes intend to be filled with grout

clarify the following:

Webcor/Obayashi Joint Venture

vvebeen/ebayasın senit ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

2. As noted in the response #1 to RFI CN-005, the 1"

dia hole in the cast node will be remain to serve as a

3. Hole in the cast node is to be used as vent hole, not

vent hole.

559 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	CDSM pile vertical tolerance) + 4" (se								
(wate	+ 2" (design clear cover to rebar) erproofing thickness subject to chan er to rebar								
wate	se confirm that this clear cover betw rproofing system and the vertical rei ptable.								
-0610	BGP - Micropiles	at CPH #2 Thickened Slab		Closed	06/24/2013	07/04/2013	07/01/2013	Potential	ly 🔲
From	: Webcor Construction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	erence Sketch: SK-001				micropile deta	asetti does not illing at thickene	object to propose d mudslab as pre	ed esented	
thick arou	e are 4 micropiles within the perime ened slab at CPH #2. Hand excava nd these micropiles to keep from da mns. The grout columns will be con-	tion will occur maging the grout			in RFI.				
pene mud: micro expo thick	etrations, in the structural design of the slab and trim steel will be installed a copile. We will be installing butyl tape used grout column and onto the microened mudslab as a bond breaker. First acceptable.	he thickened ccordingly at each e around the opile, to top of				ociates Comme Iter the waterpro	nt: The proposa pofing system.	in this	
-0611	SSS - Grout Hole	Diameter and Material		Closed	06/24/2013	07/04/2013	07/01/2013	Potential	ly 🗌
From	: Webcor Construction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Refe	rence RFI: CN-005				1. Steel pipe is	s to be filled with	n 4000 psi pea gi	ravel	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

560 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

or concrete.

- 2. If the filler is grout, a 1" hole for venting should work. We do not need a 3" hole for venting.
- 3. If the filler is grout please advise if locations of the grout holes in cast nodes have been reviewed in the 3D model for accessibility in the field after nodes are attached to structural steel.
- 4. If steel pipes are filled with concrete and 3" hole must be patched with partial penetration weld please provide proposed detail and procedure for PJP weld.
- 5. Please provide procedure for patching the node grout hole.

as a grout port. W/O should review the constructability issue raised as this is a means and method issue.

- 4. As noted in item 2 of RFI CN-005 response, the 3" dia hole and patching details will be provided in a future ASI.
- 5. 1" dia hole in the node does not require patching.

T-0611.1 **SSS - Grout Hole Options**

> From: Webcor Construction LP Robert Kjome

To: Turner Construction Compan Gary Krutsch

Co-Author:

REQUEST:

Reference Drawings: \$1-4002 Reference RFI: T-0611

Reference Sketch: Sketch 1, Sketch 2

Design documents do not specify or provide procedures for filling the steel pipe column with 4,000psi pea gravel. The following two options are proposed, please review and advise.

Option 1 (prefered)

- 1. Locate 3" grout hole at the back of the pipe to provide access from inside of the building.
- 2. Locate 3" grout hole about 6" below CJP weld.
- 3. Fill out pipe with concrete up to the hole.
- 4. Use 1" vent / grout hole in the cast node to fill out the upper void with grout (not concrete). If it is not required leave the void to reduce added cost.

Closed

SUGGESTION:

Answered By: Adamson Associates, Inc George Metzger

08/23/2013

Potentially

ANSWER: Accept Suggestion:

08/29/2013

08/19/2013

This is a contractor's means and method issue. Arup fire/blast engineer indicated that the fill needs to be concrete with carbonate aggregate with strength from 4000 to 6000 psi. From the IFC document, a 3" dia grout hole is to be provided for concrete pumping. If the pea gravel cannot travel thru the 1" dia hole in the bus deck cast node, a second group hole is needed above the bus deck node for pumping concrete above the bus deck. Using grout (with siliceous aggregates) is not permitted.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

561 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

- 1. Weld a pipe nozzle with threaded end with a valve to 3" arout port.
- 2. Pump up concrete to completely fill the pipe column including voids in cast nodes.
- 3. Shut down the valve and wait until concrete sets.
- 4. Cut the pipe nozzle off.
- 5. Clean up the nozzle weld, remove extra concrete, weld in the plug, grind to AESS requirements, touch up.
- 6. Note: this option will be very expensive.

T-0611.2 SSS - Grout Hole Options

From: Webcor Construction LP

Robert Kjome

To: Turner Construction Compan Gary Krutsch

REQUEST:

Co-Author:

Reference RFI: T-0611.1 Reference Sketch: Attached

The response to RFI T-0611.1 does not address the question. If grouting of the void in the cast node per Option 1 is not permitted, then Option 2 should be applied to completely fill the pipe column and the void in the cast node with concrete. Please confirm this is acceptable.

Closed

SUGGESTION:

08/28/2013

09/07/2013

09/09/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: **Accept Suggestion:**

TT has previous responded to RFI 611.1. TT's original response is excerpted below:

"This is a contractor's means and method issue. Arup fire/blast engineer indicated that the fill needs to be concrete with carbonate aggregate with strength from 4000 to 6000 psi. From the IFC document, a 3" dia grout hole is to be provided for concrete pumping. If the pea gravel cannot travel thru the 1" dia hole in the bus deck cast node, a second group hole is needed above the bus deck node for pumping concrete above the bus deck. Using grout (with siliceous aggregates) is not permitted."

TT is not in the position to give instruction to the contractor on how to fill the pipe with pea gravel concrete, as it is contractor's Means and Methods as stated in the original response. Some other possible options are discussed below for contractor's consideration:

Instead of using a 3" grout hole above the ground floor node as noted in Option 2, the contractor can pour the concrete through a 3" hole above the bus deck node and let the grout flowing through the 1" hole in the bus deck node to the pipe below, and the existing grout



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

562 of 1053 11/05/2013

Time:

10:53 AM

30100

JOINT VENTURE		30100 - Trar	Transbay Transit Center Project						
Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
				hole in the gr hole.	ound floor node	can be used as a	vent		
				pouring cond		o grout the pipe by of the lower pipe Ided.			
				pouring conc the bus deck node is weld to facilitate th	rete from the top cast node is we ed (an external v	o grout the pipe by o of the upper pipe ided but before the ibrator might be no a gravel concrete to s deck node.	after e roof eeded		
T-0612 B2 Electrical Ro	oom		Closed	06/24/2013	07/04/2013	07/02/2013	Potentia	lly	
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Georg	ge Metzger		
Co-Author:									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Drawing: A1-9214					to attached SKA	-2746, 2747, 2748			
Please confirm the pilaster size and whis required at the single door opening to Electrical Room B2880 adjacent to GL of adjacent wall openings.	B2 Emergency				oint locations for	ated wall, door op the B2 Emergenc			
T-0612.1 BGP - Revised F	Plumbing Layout in Eme	ergency Electrical Room B2	Closed	08/14/2013	08/24/2013	08/15/2013	Potentia	lly 🗀	
From: Webcor Construction LP	Joanne Filipas	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y :Turner Constru	uction Comr Stacy	Wilson		
Co-Author:									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: T-0612					outing of vent an	d trap primer lines			
The response to RFI T-0612 BGP revision the doors to Emergency Electrical Roor any Mechanical, Electrical or Plumbing	n B2280. Are there			the mat slab sketch PSK-: Minola Angh	2022.	Refer to attached 4/2013	d		



T-0614

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

Page:

Job:

563 of 1053 11/05/2013 10:53 AM

30100

Time:

Date:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed in Below Grade Package, to accommodate equipment layout changes resulting from the modified door locations. T-0612.2 **BGP - Updated Plumbing Drawing** Closed 09/06/2013 09/16/2013 09/09/2013 Potentially From: Webcor Construction LP Marina Rosso To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Please refer to T-0612.1 and drawing P1-3002. George Metzger 9/9/2013 The vent and trap primer lines within the mat slab at Room RESPONSE: B2280 were revised in the Foundation Level Zone 02 See the attached drawing PSK-3002. CMGC should note that RFI's are answers to Plumbing Plan PSK-2022 via RFI T-0612.1. The revised drawing did not include an enlarged plan detail. questions. The Contract Documents are not continuously updated to follow all questions and Please provide the revised enlarged drawing plan shown answers that arise during construction. All drawings on detail 1 of sheet P1-3002 for coordination. that may relate to a RFI answer will not necessarily be updated when the RFI answer is provided. T-0613 **BSE - Excavation For Zone 4 Timber Pile Survey** Closed 06/24/2013 07/04/2013 07/28/2013 Potentially From: Webcor Construction LP Robert Kiome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Kelly Phariss Co-Author: Balfour Beatty Infrastructure, Inc. REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Please see attached BBII Letter 4225-000-1232. ARUP Response: 1. In Zone 4, East of the buttress shafts, BBII would like to This is acceptable east of the buttress and west of excavate down 3 feet within the 50' berm in order to Beale Street only. uncover timber piles. Please confirm this acceptable. 2. Please confirm if the soils need to be immediately backfilled upon completion of the survey or if the excavated elevation can remain.

To: Turner Construction Compan Gary Krutsch

Closed

06/24/2013

07/04/2013

Answered By: Adamson Associates, Inc George Metzger

07/28/2013

Potentially

BGP - C21 Column Vert Std. Hooks, Replace with HRC 555 T-head

Robert Kjome



mat slab areas. SCCI will not be able to construct the joint as shown Detail 2 on CD S1-3001, with the micro pile in the way. SCCI proposes to modify the mat slab

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

564 of 1053 11/05/2013

Time:

10:53 AM 30100

Numbe	er	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Au	ıthor: Shimmick Cons	truction Compa	ny, Inc Ben Gordon							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Drawing S	1-3302						the standard hoo		
	Section 1 on sheet SI-3302 depicts a standard hook at the bottom ofthe #11 vertical for the embedded C21 column. Please confirm it's acceptable to replace the standard hook with an HRC 555 T-head similar to that of the typical vertical wall reinforcing. BGP - Clear Cover Notation Discrepancy From: Webcor Construction LP Robert Kjome			heads in Detail 1/S1-3302. The heads in the second layer of ve was previously discussed with Review Committee (SSRC). Ci spacing requirements between recommended use of hooks in vertical bars as indicated in the				vertical bars in thin Seismic and Str Diting minimum clin headed bars, Son the second layer	is detail ructural lear SSRC er of	
T-0615	;	BGP - Clear C	over Notation Discrepancy wit	h RFI 339 Response	Closed	06/24/2013	07/04/2013	06/27/2013	Potential	lly
F	From: Webcor Constru	ction LP	Robert Kjome	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Au	ıthor: Shimmick Cons	truction Compa	ny, Inc Ben Gordon							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Drawing S Section 1 on S1-3302 face of concrete to the the response to RFI T reinforcing was confire would encroach into th wall vertical reinforcing superseded by the res requirements in RFI T	details 2-1 /4" of typical wall verously the clean ned to be 2" and 2" clear cover detail in the country of the country of the cover detail in the country of the country o	clear cover from the rtical reinforcing. Per r cover to the vertical d the cross-ties er. Please confirm the 1/S 1-3302 is			is not supers RFI T-0339 w 3201 and det sections thro 3201 is a typi embedded co 1/4"cover to to Detail 1/S1-3	eded by our respons on detail 1/S ail 1/S1-3302 cough the foundatifical section and oblumns within the che vertical reinfo	over detail in 1/S conse to RFI T-03 1-3201. Detail 1/ rrespond to differ owll. Detail 1/ detail 1/S1-3302 is foundation wall. orcement is specithe larger cross tiumns.	339. /S1- rent /S1- is . 2- ified in	
T-0616	;	BGP - Micro F	Pile and Mat Slab CJ Conflict		Closed	06/24/2013	07/04/2013	06/26/2013	Potential	lly
F	From: Webcor Constru	ction LP	Robert Kjome	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Au	thor: Shimmick Cons	truction Compa	ny, Inc Ben Gordon							
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference: Drawing S	1-3001					eptable to modify sed in the RFI.	the mat construc	ction	
	See attached sketche and S102. While perfo construction joints SC one of the micro piles	ming the layou CI has discover	t of the mat slab red a conflict between			, , , , , ,				



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

565 of 1053 11/05/2013

30100

Date: Time:

10:53 AM

30100 - Transbay Transit Center Project

ANSWER:

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed construction joint, to clear the conflicting micro pile, as shown on the attached sketches. Is this acceptable? T-0617 **BGP - Catch Basin at the Construction Joint** Closed 06/24/2013 07/04/2013 07/08/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Shimmick Construction Company, Inc Ben Gordon SUGGESTION: REQUEST: ANSWER: Accept Suggestion: It is acceptable to shift the catch basin 2'-0" directly Reference: Drawing A1-2813 West to avoid conflict with the mat slab construction See attached lift drawings S105.0, S105.4, and CD A1ioint. See attached sketch SKA-2756. 2813. For construction convenience, SCCI is proposing to move catch basin that falls between GL 8-9 and South of GL J. 24" westward (towards GL 8). Moving noted CB will make this part of the drainage system fall within the S105 mat slab our, and not have CB split between the CJ. Is this acceptable? T-0618 **BGP - Mechanical Room Plumbing Clarifications 004** Closed 06/25/2013 07/05/2013 07/11/2013 Potentially From: Webcor Construction LP Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Shimmick Construction Company, Inc Ben Gordon REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Reference: Drawing P1-2022, Spec Section 22 13 01 For revised piping layout of the Domestic Booster and Irrigation Pump Room, see attached sketch PSK-2022 Reference attached marked up CD PI-2022 and the and SKA-2761. drainage layout drawings. One of the floor sinks is located in the pin pile blockout. This creates a conflict between the added reinforcement in the mat slab and the floor sink. Please provide details for this conflict. T-0619 BGP - CDSM Wall Encroachments rebar details- RFI T-0448.5 Closed 06/26/2013 07/06/2013 07/02/2013 Potentially From: Shimmick Construction Company, Inc Ben Gordon To: Webcor Construction LP Jackson Tukuafu Answered By: Webcor Construction LP Jackson Tukuafu



exhibit - A

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Platform Level by the Rail Vehicle Kinematic

566 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM 30100

			J	3					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Within the issued response to RFI 448.5 no details were provided to depict the reinforcing configuration at the point in which the wall steps from it's reduced width back to it's original contract width of 36". Please provide a detail depicting the acceptable configuration at both the typical wall section and of the concourse level which includes the spandrel beam/wall interface.					generated RF	Accept Suggestion: fer to RFI response T-0608. The WOJV RFI T-0608 anticipated these revisions and itted prior to RFI T-0619 (SCCI #236).			
T-0620	BGP - Strut Br	acing Conflicts With Shear W	alls and Columns	Closed	06/26/2013	07/06/2013	07/15/2013	Potential	ly
From: Webcor Cons	struction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered B	:Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmick Co	onstruction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
reinforcement from deck. To avoid con shear walls to be co	at of the shoring and be job, shear wall rei 260) and the diago 50 shows continuou top of the mat slab structability issues constructed with hor elevation as the first ontal joints will requestion.	d diagonal struts in inforcement (as nal struts are in us vertical shear wall to to top of concourse SCCI suggests for izontal construction at level of foundation uire modification of			shearwalls is		of horizontal CJ's ntractor to propos bmittal review.		
T-0621	CDSM Soldier	Pile Enchroachment Area 3		Closed	06/26/2013	07/06/2013	07/07/2013	Potential	ly 🗌
From: Webcor Cons	struction LP	Michael Spillane	To: Turner Construction Co	ompan Gary Krutsch	Answered B	:Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Docume	ents: Exhibits A - H				Option A				
This RFI addresses soldier piles (SP) o as all levels of the obetween CDSM pile	n the north wall in sencroachment into	the foundation wall			the following	conditions:	vision is acceptab		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 567 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

Exhibit - B , C & H depict the location and degree in which the SP are encroaching

Option A

Webcor is proposing to change the alignment of the Concrete Foundation wall on the north elevation along gridlines A between gridlines 1 and 5 - 6 (CDSM piles 1 to 50)

The Concrete foundation wall which runs along gridline A between gridlines 1 and 5-6 would be offset into the structure by 0.1979' (2-3/8") the proposed Face of concrete Foundation wall would then be 2-3/8" off gridline A, this offset would enable the contract reinforcement to be installed without the need for further modifications to the reinforcement due to encroachment of the CDSM piles in concrete pour Areas 3 & 4. See Exhibit - H

Option B

WOJV proposal: (See Exhibit - B) Between CDSM piles 1 to 20-21 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear all the encroaching SP. This foundation wall area was originally a WR1 reinforcement area (#11@8"oc EF vertically) and would change to #11@6"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 see Exhibit - D.

Between CDSM piles 20-21 to 22 WOJV is proposing to decrease the specified 36" wall thickness again to 33 5/8" to clear all the encroaching SP, originally this was a WR2 reinforcement area #11@6"oc vertically and would change to #11@5"OC the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.3 option 2 (Exhibit - E)

Between CDSM piles 22 to 31 the reinforcement would remain unchanged as per the Contract Reinforcement. See Exhibit-G showing a detail of transition between modified reinforcement to contract reinforcement with a non-contact reinforcement lap detail.

Either of these options if approved would be incorporated into the TG06 shop drawings

Please confirm if either of these options would be acceptable

Envelopes (RVKE). The B1 Lower Concourse Level is strictly controlled by space planning constraints, particularly minimum requirements for Public Utility rooms, service rooms and associated structural and service coordination.

The CDSM wall zone described in this RFI is outside of the RVKE, therefore at the B2 level the foundation wall face can be offset as proposed. However, at B1 Level, the offset will affect Utility Room and Service configurations.

If Option A is adopted, either:

1) Provided the foundation wall configuration and structural design permit, the offset should only occur in this area at the B2 Level and transition back to the original alignment on Gridline A before reaching the B1 Level.

OR

2) Any offset to the foundation wall face at B1 Level will require adjustment to space planning, coupler layouts, structural / service opening coordination and potentially may need further negotiations with Public Utility Companies i.e. it is not acceptable to simply 'shave off' a couple of inches from a room at this level.

Note that all transitions are to be smooth and not stepped.

Our comments for proposed Option B are as follows:

 It is not acceptable to transition foundation reinforcement width and/or vertical rebar spacing within sections where specified foundation wall reinforcement is "WR2" or where there is an embedded column per construction documents. Provide uniform reinforcement width and rebar spacing within these regions. The transitions can be acceptable at the ends of (or just outside) these regions.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

568 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Subject					designed using ruction documer g can negatively ty moment fram vel. As an example the rebar detail to be detail the beam and four the see constructable move wall rebar the constructable to the constructable that the constructable	e beam at the lower ple, see attached sat the lower concondation wall. To as sility issues it may ramaximum of 3/2 n wall rebar spacing toton drawings will ctability at the groeams join the found these constructabing to move wall rebar led. The with heads cannow with the cannow with heads cannow with heads cannow the sameter). The rule of this is a general conture revision requestion at the contract of the con	ing of inges er sketch urse ssist in be 4 inch und dation lity a #11 t be does mment sts."	
T-0621.1 From: Webc	CDSM Soldie or Construction LP	er Pile Encroachment Area 3 Michael Spillane	To: Turner Construction Compan Gar	Closed y Krutsch	07/12/2013 Answered B	07/22/2013 y :Adamson Ass	07/23/2013 ociates, Inc Georg	Potentia je Metzger	

REQUEST:

Reference Documents: Exhibits A - C

This RFI is an additional request based on the response to RFI T- 621 option A (see exhibit - A) The original RFI T-621 option A addressed the impact of the encroaching CDSM soldier piles on the north wall in slab in areas 3 and SUGGESTION:

ANSWER: **Accept Suggestion:**

As discussed in the meeting with TJPA, WOJV, Turner, AAI and WSP (07/22/13), the proposed solution to maintain the offset of the foundation wall up through Level B1 is acceptable to the Design Team subject to the following adjustments:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

569 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Cost Created Required Answered Number Subject Status Impact Proceed

4 by proposing to offset the face of concrete foundation wall by 0.1979' (2-3/8") into the structure. WOJV note the original response where it was acceptable to offset the foundation wall between B2 and B1 elevations but would have to transition back to design alignment between B1 and ground elevation however this transition back would not be possible as there are CDSM piles encroaching the full high of the foundation wall. with that WOJV is proposing the following possible solution, to continue the revised offset alignment between B1 and ground elevation however limiting it to an area between GL 1 and 2-3 (CDSM piles 1 to 21)full wall height, WOJV acknowledge the fact the PG&E transformer room need to remain at its current size but feel there may be some scope to slightly change the dimensions of the main switchgear room or the service corridor or both see exhibit B and exhibit C.

This proposal if acceptable to offset the foundation wall would enable the contract reinforcement to be installed without the need for further modifications due to encroachment.

Please confirm if this option would be acceptable

PG&E Transformer Vault (B1223/4) shall remain the same size and shift south by 2-3/8". Main Switchgear Room (B1222) will absorb the 2-3/8" wall shift south. Floor opening in NW corner of Main Switchgear Room will shift south 2-3/8" with wall. North Electrical Room (B1289) shall remain same size and shift down 2-3/8" (with electrical slab opening). Landscape Storage (B1288) will accommodate the 2-3/8" wall shift south. Fire Main POE (B1290) wall will move 2-3/8" south. Plumbing Intake Room (B1229) shall absorb the 2-3/8" foundation wall shift south.

Please also note that RFI 621 was on Area 3, not on 3 and 4 as indicated in RFI 621.1

T-0621.2 **BGP - CDSM Soldier Pile Encroachment Area 3**

Rvan Burke

To: Turner Construction Compan Gary Krutsch

Closed

Potentially Answered By: Adamson Associates, Inc George Metzger

07/30/2013

Co-Author:

REQUEST:

Please refer to RFI T-0621 Response Option B Responses #2 & #3.

From: Webcor Construction LP

The RFI response states that it is acceptable to move vertical wall rebar a maximum of 3/4" as needed to avoid clashes with horizontal mat reinforcing. As the vertical reinforcing is #11 bar (1 3/8") and the mat reinforcing is #10 (1 ½"), in the worst case a mat reinforcing bar will clash with the vertical bar when the layout ends up with both bars installed on the same centerline. Please confirm that in this case, the reinforcing can be moved the 1 3/8" to avoid the clash.

SUGGESTION:

ANSWER: **Accept Suggestion:**

08/03/2013

07/24/2013

Moving the foundation wall vertical rebar more than 3/4 inch is not acceptable. Clashes between foundation wall vertical rebar and mat rebar, if any, can be addressed moving the mat rebar up to 1-3/8 inches.



Exhibit-G, H & I showing details of transition between modified reinforcement to contract reinforcement.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

570 of 1053 11/05/2013

Time: 10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Pro
T-0622	BGP- CDSM S	oldier Pile Encroachment A	Area 4	Closed	06/26/2013	07/06/2013	07/07/2013	Potentially
From: Webcor C	Construction LP	Michael Spillane	To: Turner Construction Comp	oan Gary Krutsch	Answered By	y: Adamson Ass	ociates, Inc Geo	orge Metzger
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference Docu	uments: Exhibits A - J				Option A			
This RFI addresses the impact of the encroaching CDSM soldier piles (SP) on the north wall in slab area 4 as well as all levels of the encroachment into the foundation wall between CDSM piles 31 to 60 as well. Location Plan see exhibit - A Exhibit - B, C & J depict the location and degree in which the SP are encroaching Option A Webcor is proposing to change the alignment of the Concrete Foundation wall on the north elevation along gridlines A between gridlines 1 and 5 - 6 (CDSM piles 1 to 50) The Concrete foundation wall which runs along gridline A between gridlines 1 and 5-6 would be offset into the structure by 0.1979' (2-3/8") the proposed Face of concrete Foundation wall would then be 2-3/8" off gridline A, this offset would enable the contract reinforcement to					The Train Box Platform Leve Envelopes (R strictly contro particularly m rooms, service service coord The CDSM w of the RVKE, wall face can Level, the offs configurations	conditions: x design is restrel by the Rail VelVKE). The B1 Lilled by space plinimum requirer recommend as lination. rall zone describ therefore at the be offset as proset will affect Ut	Lower Concourse anning constrair ments for Public sociated structured in this RFI is B2 level the four posed. However lility Room and S	rain e Level is nts, Utility ral and outside indation r, at B1
be installed without the need for further modifications to the reinforcement due to encroachment of the CDSM piles in concrete pour Areas 3 & 4. See Exhibit - J Option B WOJV proposal: (See Exhibit - B) Between CDSM piles 31-32 to 35 and 41-42 to 45-46 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear all the encroaching SP, originally this was a WR2 reinforcement area #11@6"oc EF vertically and would change to #11@5"OC the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.3 option 2 (Exhibit -E) Between CDSM piles 35 to 41-42 and 45-46 to 49 WOJV is proposing to decrease the specified 36" wall					structural des in this area at original alignr B1 Level. OR 2) Any offs Level will requestion and coordination and coordinations or the coordination and coordinations or the c	sign permit, the of the B2 Level at ment on Gridline set to the foundauire adjustment its, structural / sand potentially rwith Public Utility	n wall configuration wall configuration transition bace A before reaching attion wall face at to space planning ervice opening may need further y Companies i.e. off' a couple of in	y occur ek to the ing the t B1 ng, e. it is not
thickness to 33 foundation wall area (#11@8"or #11@6"OC this would be compound by predicated on Setween CDSN remain unchang	5/8" to clear all the en area was originally a V c EF vertically) and wo reduction in foundation ensated by reducing the stamped Detail A/S piles 49 to 60 the reinged as per the Contract showing details of trails.	croaching SP. This WR1 reinforcement ould change to on wall thickness he rebar spacing k.1 (Exhibit - D). offorcement would ot drawings. See			from a room a Note that all t stepped. Option B For Option B,	at this level. transitions are to	be smooth and ion is acceptable	not



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 571 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed

Either of these options if approved would be incorporated into the TG06 shop drawings
Please confirm if either of these options would be acceptable

- 1) Near gridline 4, move the proposed reinforcement width transition to west by a few feet so that uniform wall thickness can be achieved within the WR2 zone.
- 2) See Option B Comments 2 and 3 provided in response to RFI #T-0621.

The Design Team must be informed of the contractor's preferred approach prior to committing to shop drawings.

T-0622.1 BGP - CDSM Soldier Pile Encroachment Area 4

Michael Spillane

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Accept Suggestion:

08/22/2013

Potentially

08/23/2013

08/13/2013

ANSWER:

Co-Author:

REQUEST:

Reference Documents: Exhibits A & D

From: Webcor Construction LP

This RFI addresses the previous comments to RFI T-622 see exhibit - D.

The contractor preference approach is to use a modified option B originally outlined in RFI T-622

Exhibit - A shows the revised Plan view with modifications made. Exhibit - C depict the degree in which the SP are encroaching in area 4.

Based on the response to previous RFI's the number of encroaching beams in area 4 has been reduced mainly due to the decreased thickness of the waterproofing system and the contractor willingness to use some of the construction tolerances in an effort to mitigate some of the smaller encroachments. This has resulted in only one area where modified reinforcement will have to be installed; Between CDSM piles 47 to 49 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP number 48. This wall area was originally a WR1 reinforcement area (#11@8"oc EF vertically) and would change to #11@6"OC this reduction

SUGGESTION:

1-) We have not received any formal information from the contractor regarding the reduction in the thickness of the waterproofing system mentioned in this RFI. Therefore, we cannot assess the impact of the change in waterproofing system thickness to the encroachment calculations presented in Exhibit C. Also, the calculations provided in this RFI seem to consider 2 inch thickness for the waterproofing system, which is unchanged from previous RFIs.

AAI Comment: The below grade waterproofing Substitution Request accepted by the TJPA does not significantly change the overall dimension of the materials in the waterproofing system.

2-) As indicated in our response to RFI T-0626, if the contractor prefers to address small encroachment issues through acceptable construction tolerances, this approach is acceptable



Nine (9) micropiles under trestle span 3.3 in Zone 3 had to be relocated in the field due to overhead obstructions and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Reminder for Contractor to verify/coordinate potential

572 of 1053 11/05/2013

Time:

10:53 AM 30100

JOINT VENTURE			30100 - Trans	00 - Transbay Transit Center Project						
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
in foundation wall thic reducing the rebar spanning the rebar spanning in all other locations in remain unchanged. See Exhibit-B showing modified reinforcement in this in a spanning in this in a spanning in the spanning i	acing. n area 4 the reinforce g details of transition left to contract reinforce	ment would between ement.								
T-0622.2	BGP - Wall Vertical	Reinforcement Spaci	ng in Area 4	Closed	10/10/2013	10/20/2013	10/18/2013	Potential	ly	
From: Webcor Constru	uction LP	Jackson Tukuafu	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger		
Co-Author: Shimmick Cons	struction Company, Inc	Ben Gordon								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference: RFI T-062	22 and RFI T-0622.1.				George Metzg	ger				
The Area 4 wall vertic	al reinforcement has	been installed			10/16/20013 RESPONSE:					
different from the layo	out in RFI T-0622.1.						ment spacing is cal rebar have cr	- -		
Please confirm the re					ties. Please ir	corporate these	changes into as	-built		
spacing as shown in t	the attached sketch is	acceptable.				e that using tigh Ills than required	ter rebar spacing I in construction	j in		
Note that the wall thic approved in RFI T-062	hicknesses remain the same as 0622.1.				Lower Concor	urse and Ground	act constructabilit I Levels where be ne foundation wa	eam and		
T-0623	BSE - Micropile Re	location - Overhead O	bstructions	Closed	06/28/2013	06/28/2013	07/01/2013	Potential		
From: Webcor Constru	•	Robert Kjome	To: Turner Construction Compa				ociates, Inc Geor			
Co-Author: Balfour Beatty I	nfrastructure, Inc.	Brandon Miller		,	·		,	5 3		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference : Attached Documents, Spec Section 31 63 33				Thornton Tomasetti does not object to moving the 9			the 9			
Nine (Q) microniles un	nder treetle enan 2 2 is	7one 3 had to			micropiles pre	esented in RFI as	s proposed.			



From: Webcor Construction LP

Co-Author:

Michael Spillane

Webcor/Obayashi Joint Venture

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

573 of 1053 11/05/2013

Date:

Job:

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed a very confined working area. See attached chart and conflicts with future train platform walls. drawings for as-built relocation information. Please confirm these relocations are acceptable. T-0624 BSE - Micropile E231 Relocation - Instrumentation Pipe - Overhead Obstructions Closed 06/28/2013 07/08/2013 07/01/2013 Potentially From: Webcor Construction LP Robert Kjome Answered By: Adamson Associates, Inc George Metzger To: Turner Construction Compan Gary Krutsch Co-Author: Balfour Beatty Infrastructure, Inc. **Brandon Miller** REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference: Attached Drawing, Spec Section 31 63 33 Thornton Tomasetti does not object to moving micropile E231 as proposed. Micropile E231 under trestle span 3.4 in Zone 3 had to be relocated in field 5.5' north due to overhead obstructions. Blue piping with instrumentation wiring inside was directly in the way of the micropile. See attached drawing for relocation information. Please confirm this relocation is acceptable. T-0625 BSE - Micropile E137 Relocation - Above Ground Equipment Obstruction 06/28/2013 Closed 07/08/2013 07/01/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: Balfour Beatty Infrastructure, Inc. Brandon Miller **REQUEST:** SUGGESTION: ANSWER: Accept Suggestion: Reference: Attached Drawing, Spec Section 31 63 33 Thornton Tomasetti does not object to moving micropile E137 as proposed. Micropile E137 in Zone 3 was installed 1' south of original location because it was in conflict with the de-sanding equipment. See attached drawing for relocation information. Please confirm this relocation is acceptable. T-0626 **BGP-CDSM Soldier Pile Encroachment Area 5** Closed 07/02/2013 07/12/2013 07/10/2013 Potentially

To: Turner Construction Compan Gary Krutsch



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 574 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

				Date	Date	Date	Cost
iumber Subject Status Created Required Answered impact	lumber	Subject	Status	Created	Required	Answered	Impact Procee

REQUEST:

Reference Documents: Exhibits A - J

This RFI addresses the impact of the encroaching CDSM soldier piles (SP) on the north & south walls in slab area 5 as well as all levels of the encroachment into the foundation wall between CDSM piles 60 to 81 on the north elevation and 702 to 732 on the south elevation. For Location Plan see exhibit - A.

Exhibit - B, & C depict the location and degree in which the SP are encroaching

For this RFI, the combined layers of the water proofing system had been assumed to be 2" thick, which is subject to change, this may increase or decrease the number of encroaching piles depending on the thickness of the system used.

WOJV proposal North elevation on gridline A: (See Exhibit - B) Between CDSM piles 60 to 62 and 69 to 71 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 61 & 70, originally these were WR1 reinforcement area's #11@8"oc EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit - D). Between CDSM piles 76 to 78-42. WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 77. This foundation wall area was originally a WR2 reinforcement area (#11@6"oc EF vertically) and would change to #11@5"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.3 option 2 (Exhibit -E).

WOJV proposal on the South elevation: (See Exhibit - B & F) Between CDSM piles 704 to 706, WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 705, originally this was a WR1 reinforcement area #11@8"oc EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit - D)

SUGGESTION:

ANSWER: Accept Suggestion:

- 1-) It is not acceptable to transition foundation reinforcement width and/or vertical rebar spacing within sections where specified foundation wall reinforcement is "WR2" or where there is an embedded column per contract documents. Provide uniform reinforcement width and rebar spacing within these regions. The transitions can be acceptable at the ends of (or just outside) these regions. In Area 5, this comment applies near GL 8, North Wall.
- 2-) Per Exhibit D, encroachments for some piles seem very small (for example, pile 61). For small encroachments, a 'no remedy' approach can be followed as long as the actual construction is executed within the tolerances specified in the contract documents (see specifications for information on construction tolerances).
- 3-) Mock up specimen is being developed for a location where an embedded column is used within the foundation wall. Embedded columns include two layers of #11 rebar with 6" spacing. The contractor proposes to use #11@5" in lieu of WR2 foundation wall reinforcement (#11@6") at a number of locations to remedy encroachment issues. If this option is adopted, the tightest foundation wall reinforcement will become #11@5". Revise the foundation wall mock up specimen shop drawings to include #11@5" single layer foundation wall vertical reinforcement.
- 4-) Foundation wall rebar WR2 and embedded columns are designed using vertical rebar spacing of 6" (see construction documents). We note that proposed changes to this spacing can negatively impact the constructability of the foundation wall joints at mat, lower concourse and ground levels (e.g, installing beam rebar, foundation wall dowels at the mat). An example was provided with our response to RFI T-0621.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: 575 of 1053
Date: 11/05/2013

Date: Time: Job:

Coct

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

In all other areas without CDSM encroachment issues the reinforcement will remain unchanged as per the Contract drawings.

See Exhibit-G, H, I & J showing details of transition between modified reinforcement to contract reinforcement. These solutions if approved would be incorporated into the TG06 shop drawings.

Please confirm if these solutions would be acceptable.

T-0626.1 BGP - CDSM Soldier Pile Encroachment Area 5

Michael Spillane

Closed

08/23/2013

08/23/2013

Data

Potentially

Co-Author:

REQUEST:

Reference Documents: Exhibits A & D

From: Webcor Construction LP

This RFI addresses the previous comments to RFI T-626 see exhibit - D.

Exhibit - A shows the revised Plan view with modifications made. Exhibit -C depict the degree in which the SP are encroaching in area 5.

Based on the response to the previous RFI the number of encroaching beams in area 5 has been reduced mainly due to the decreased thickness of the waterproofing system and the contractor willingness to use some of the construction tolerances in an effort to mitigate some of the smaller encroachments. This has resulted in only one area where modified reinforcement will have to be installed this is Between CDSM piles 73-74 to 78 on the north wall elevation WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP number 77. This wall area was originally a WR2 reinforcement area (#11@6"oc EF vertically) and would change to #11@5"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing.

In all other locations on the north and south walls of area 5

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

ANSWER:

08/13/2013

Accept Suggestion:

Answered By: Adamson Associates, Inc George Metzger

1-) See our response to RFI T-0622.1.

2-) Revised reinforcement detail near GL 8, North wall is acceptable.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 576 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee
					- 1		

the reinforcement would remain unchanged.

See Exhibit-B showing details of transition between modified reinforcement to contract reinforcement.

Please confirm if this solution is acceptable.

T-0627 BGP- CDSM Soldier Pile Encroachment Area 6

Closed

07/13/2013

07/03/2013

07/11/2013

Potentially

From: Webcor Construction LP Michael Spillane

To: Turner Construction Compan Gary Krutsch

Co-Author:

REQUEST:

Reference Documents: Exhibits A - J

This RFI addresses the impact of the encroaching CDSM soldier piles (SP) on the north & south walls in slab area 6 as well as all levels of the encroachment into the foundation wall between CDSM piles 81 to 104 on the north elevation and 679 to 703 on the south elevation. For Location Plan see exhibit - A.

Exhibit - B, & C depict the location and degree in which the SP are encroaching

For this RFI, the combined layers of the water proofing system had being assumed to be 2" thick, which is subject to change this may increase or decrease the number of encroaching piles depending on the thickness of the system used.

WOJV proposal North elevation on gridline A: (See Exhibit - B) Between CDSM piles 82 to 84 and 102 to 105 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 83 & 103, originally these were WR1 reinforcement area's #11@8"oc EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit - D).

WOJV proposal on the South elevation: (See Exhibit - B &

SUGGESTION:

ANSWER: Accept Suggestion:

It is not acceptable to transition foundation reinforcement width and/or vertical rebar spacing within sections where specified foundation wall reinforcement is "WR2" or where there is an embedded column per contract documents. Provide uniform reinforcement width and rebar spacing within these regions. The transitions can be acceptable at the ends of (or just outside) these regions. In Area 6, this comment applies near GL 9, South Wall. Solutions at all other locations are acceptable. However, as indicated in response to RFI T-0626, use of #11@5" for foundation wall vertical reinforcement can negatively impact constructability.

Answered By: Adamson Associates, Inc George Metzger



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 577 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Date Cost Status Created Required Answered Impact Proceed

Exhibit - F) Between CDSM piles 680 to 683, WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 681 & 682, originally this was a WR1 reinforcement area #11@8"oc EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit - D).

Between CDSM piles 695 to 697, WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 696. This foundation wall area was originally a WR2 reinforcement area (#11@6"oc EF vertically) and would change to #11@5"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.3 option 2 (Exhibit -E).

In all other areas without CDSM pile encroachment issues the reinforcement will remain unchanged as per the Contract drawings.

See Exhibit-G, H, I & J showing details of transition between modified reinforcement to contract reinforcement. These solutions if approved would be incorporated into the TG06 shop drawings.

Please confirm if these solutions would be acceptable.

T-0627.1 BGP - CDSM Soldier Pile Encroachment Area 6 Closed

From: Webcor Construction LP Michael Spillane To: Turner Construction Compan Gary Krutsch

Co-Author:

REQUEST:

Reference Documents: Exhibits A & D

This RFI addresses the previous comments to RFI T-626 see exhibit - D.

Exhibit - A shows the revised Plan view with modifications made. Exhibit -C depict the degree in which the SP are encroaching in area 6.

SUGGESTION:

08/13/2013

08/23/2013

08/23/2013

Potentially

ANSWER:

Accept Suggestion:

Answered By: Adamson Associates, Inc George Metzger

1-) See our response to RFI T-0622.1.

2-) Revised reinforcement detail near GL 9, South wall is acceptable.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 578 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

Based on the response to the previous RFI the number of encroaching beams in area 6 north elevation has been reduced mainly due to the decreased thickness of the waterproofing system and the contractor willingness to use some of the construction tolerances in an effort to mitigate some of the smaller encroachments. This has resulted in no modifications now required to the contract reinforcement on the north elevation and changes have been made to the south elevation in line with response to the original RFI T-626.

See Exhibit-B & E which shows details of transition between modified reinforcement to contract reinforcement on the south elevations.

Please confirm if this solution is acceptable.

T-0627.2	BGP - CDSM Soldier	r Pile Encroachment: SP6	96 & SP104 in Area 6	Closed	10/10/2013	10/20/2013	10/18/2013	Potentially	
From: Webcor Consti	ruction LP	Jackson Tukuafu	To: Turner Construction Compan Gar	y Krutsch	Answered By:	damson Assoc	iates, Inc Georg	e Metzger	

SUGGESTION:

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

During Shimmick's (SCCI) field layout of the CDSM encroachment in Area 6, the folloWing extent of encroachment has been moved:

- -For encroachment at SP696, SCCI moved the East extent to SP694, this is due to SP695 encroaching during the buried bar layout. This accounts for 4' additional wall length with 33-5/8" due to CDSM encroachment.
- For encroachment at SP104, the west extent of encroachment was moved to SP102. The rebar option 1 for SK1 with #11 rebar @ 6" OC will be used from SK102 to the West Extent of WR2 at Gridline 11

Please confirm the deviation from RFI response to T-0627.1 is acceptable.

ANSWER: Accept Suggestion:

George Metzger 10/16/2013 RESPONSE:

The deviations indicated in this RFI from the RFI response T-627.1 are acceptable. Please incorporate these changes into as-built drawings.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

579 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Created	Required	Answered	Cost <u>Impact</u> Proceed
T-0628	BGP-CDSM Se	oldier Pile Encroachment ir	n Area 7	Closed	07/03/2013	07/13/2013	07/11/2013	Potentially
From: Webcor Cons	truction LP	Michael Spillane	To: Turner Construc	tion Compan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger
Co-Author: Webcor Cons	truction LP	Michael Spillane						
REQUEST:			SUGGESTION:		ANSWER:	Accept Suga	nestion:	

Reference Documents: Exhibits A - J

This RFI addresses the impact of the encroaching CDSM soldier piles (SP) on the north & south walls in slab area 7 as well as all levels of the encroachment into the foundation wall between CDSM piles 104 to 134 on the north elevation and 649 to 679 on the south elevation. For Location Plan see Exhibit A.

Exhibit B, & C depict the location and degree in which the SP are encroaching

For this RFI, the combined layers of the water proofing system had being assumed to be 2" thick, which is subject to change this may increase or decrease the number of encroaching piles depending on the thickness of the system used.

WOJV proposal North elevation on gridline A: (See Exhibit B) Between CDSM piles 102 to 105 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 103 & 104, originally these were WR1 reinforcement area #11@8"OC EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit D).

WOJV proposal on the South elevation: (See Exhibit B & Exhibit F) Between CDSM piles 657 to 659 & 677 to 680. WOJV is proposing to decrease the specified 36" wall thickness to 33 1/2" & 33 5/8" respectively to clear the encroaching SP 658 & 678, Originally these were a WR1 reinforcement area #11@8"OC EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit D). Between CDSM piles 665 to 667 & 673 to 677, WOJV is proposing to decrease the specified 36" wall thickness to 32 15/16" & 33 5/8" respectively to clear the encroaching SP 666, 674 & 675. This foundation wall area was originally a WR2 reinforcement area (#11@6"OC EF vertically) and would change to #11@5"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped

It is not acceptable to transition foundation reinforcement width and/or vertical rebar spacing within sections where specified foundation wall reinforcement is "WR2" or where there is an embedded column per contract documents. Provide uniform reinforcement width and rebar spacing within these regions. The transitions can be acceptable at the ends of (or just outside) these regions. In Area 7, this comment applies near GL 12, South Wall. Solutions at all other locations are acceptable. However, as indicated in response to RFI T-0626, use

of #11@5" for foundation wall vertical reinforcement

can negatively impact constructability.



Reference: Drawing S1-3500, Spec Section 03 30 20, 03

20 00

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Concrete cover is for protection of reinforcement

against weather and other effects. The cover is prescribed for 3 classes of structural members in ACI 580 of 1053 11/05/2013

Time:

10:53 AM 30100

					Date	Date	Date	Cost	
Number	<u>Subject</u>			<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Procee
In all other a	3 option 2 (Exhibit E). areas without CDSM pile encroa ement will remain unchanged as awings.								
between mo	G, H, I & J showing details of tr odified reinforcement to contractions if approved would be incorpant.	t reinforcement.							
TG06 shop		porated into the							
Please conf	irm if these solutions would be	acceptable.							
T-0628.1	BGP - CDSM Soldie	er Pile Encroachment A	Area 7	Closed	07/16/2013	07/26/2013	07/23/2013	Potential	ly 🗌
From: Webc	or Construction LP	Michael Spillane	To: Turner Construction Co	ompan Gary Krutsch	Answered By	y:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST: Reference D	Documents: Exhibits A & B		SUGGESTION:			Accept Sug	foundation wall		
This RFI ad see exhibit -	dresses the previous comments - A.	s to RFI T-628			remorcemen	t near Gridline 1	z is acceptable.		
Exhibit - B s modification	shows the revised Plan views wins made.	ith							
Please conf	irm if this solution is acceptable	e.							
T-0629	BGP - Clear Cover	on Concourse Slab		Closed	06/28/2013	07/08/2013	07/01/2013	Potential	ly
From: Webc	or Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	y :Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimr	mick Construction Company, Inc	c Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 581 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

Detail 1 on S 1-3500 calls out for 3/4" clear cover on top and bottom of the lower concourse slab. ACI codes 301 and 318 specify 3/4" minimum cover for #11 bars and smaller, in slabs that are not exposed to extreme environment. Even though lower concourse is designed to eventually be enclosed with the rest of the superstructure, it will be exposed to the weather elements during the construction of the project. With that said, inadequate cover over rebar can cause plastic settlement cracking. SCCI is concerned that the 3/4" clear cover in the concourse slab could cause this plastic settlement cracking.

Please confirm that the clear cover on the lower concourse slab is 3/4" minimum?
Please specify what is the maximum clear coverage of the lower concourse reinforcement?

318, a) concrete cast against and permanently exposed to earth, and b) concrete exposed to earth or weather, and c) concrete not exposed to weather or in contact with ground. The concrete slab at the lower concourse level, even though will temporarily exposed to weather during construction like any other building structure, is usually categorized as type c condition, which requires a 3/4" minimum cover per ACI 318, Section 7.7.

The statement of "inadequate cover over rebar can cause plastic settlement cracking" is not totally correct, as the ratio of cover to reinforcing bar diameter is only one of many factors that contributes to the plastic settlement cracking. The amount of settlement tends to be proportion to the depth of concrete, i.e., the deeper the section the greater the settlement. Hence, plastic settlement usually occurs in a much thicker slab with much heavier top rebars. With only a 12" thick slab at the lower concourse level, we don't anticipate that plastic settlement cracking becomes a problem, as long as good construction practices are follow. Those practices include, but not limited to the following:

Use mixes with lower bleeding characteristics.

Wet the subgrade or formwork before placing concrete to avoid excessive water loss from the base of the concrete.

Set all formwork accurately and rigidly so that it will not move during concrete placement

Place concrete in the deep sections (beams or columns) first and let it settle prior to placing and compacting the top layers (ensuring two layers blend together)

Fully compact the concrete

Follow the requirements of hot weather concrete placement specified in the Specifications.

Cure the concrete promptly and properly.



8" O.C.E.W. for the bottom and top mats. The micropile

layout also consists of a uniformed spacing and at some locations has been adjusted for conflicts or for other

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 582 of 1053 11/05/2013

Time: Job:

where the typical spacing would result in a conflict between the flexural steel and the micropile. Before making such a shift, the contractor shall verify that

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
						,			
						rance per ACI 1	e in accordance v 17 as specified in		
					employ prope the plastic set	Ve anticipate that SCCI will develop a mix design and mploy proper construction technique to ensure that e plastic settlement shrinkage will not occur lower oncourse slab and mat.			
T-0630	BGP - Mat Slai	o Key Way Waterstops Insta	allation	Closed	06/28/2013	07/08/2013	07/04/2013	Potential	ly
From: Webcor Constr	uction LP	Jackson Tukuafu	To: Turner Construction	n Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmick Cons	struction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached SCCI is proposing to mat slab as a formed hydrophilic waterstop 1/4" amplitude on the the concrete and the remainder of the cons place which generate attached photos that formed finish. Please advise if this i	leave the formed finish to aid in the to the concrete concrete surface waterstop system struction joint will s a roughened struction light the are	I key surface in the ne bonding of the . With a specified e, the bond between n decreases. The have stayform in urface. Please see			topic and requisurfaces whice requires rought epoxy per mathe vertical sulfinish will be athe waterstop installation sulfinish with waterstop mathe to be installed.	uires a reasonab h are to receive nened surface b nufacturer's reco urface indicated i acceptable provious is reasonably surface requireme nufacturer. The	2.5.C addresses ly smooth finish a waterstops. 2.5.C e leveled with 2-pommendations. Len the RFI as a forded the finish to remooth and meets ints of the hydrophhydrophilic waters epared in accordactions.	at C also art eaving rmed eceive the nilic stop is	
T-0631	RGD - Mat Slal	o Reinforcing Conflict with	Microniles	Closed	07/01/2013	07/11/2013	07/12/2013	Potential	lv 🗀
From: Webcor Constr		Jackson Tukuafu	•	n Compan Gary Krutsch			ociates, Inc Georg		ıy
Co-Author: Shimmick Cons			rumer constructio	ary Mulaur	,	(Gailleoil Ass)	olatos, ilio Georg	go Micizgei	
REQUEST:	,	,,	SUGGESTION:		ANSWER:	Accept Sug	nestion:		
Reference: Drawing S	REQUEST: SUGGESTION: Reference: Drawing S1-2022 Thru S1-2031 The typical mat slab reinforcing designed to be installed at				Typical and a steel) and ma	dditional mat rei	nforcing bars (flex pars may be shifted	ed in	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 583 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

purposes, example RFI 490. Should the typical mat slab reinforcing when laid out at 8" O.C.E.W. or some other reinforcing designed within the mat slab conflict with the micropile asbuilt, is it acceptable to displace the reinforcing from the designed spacing layout such that it is repositioned to either side of the micropile? Additionally, please confirm if reinforcing in direct contact with the micropile is acceptable? Should the displacement of the reinforcing to either side of a micropile not be acceptable please provide direction.

said shift will not cause unforeseen conflicts that impact the placement of column dowels, mat headed shear reinforcement, or any other mat or wall reinforcement detailing. Where such a shift will impact the placement of other reinforcement, contractor shall not shift the mat bar out of typical spacing, and instead may resolve the conflict by either of the following methods:

- a) Treat the micropile obstruction sim to a typical opening per the Typical Slab Opening Detail found on 1/S1-3501 (i.e. add 2 bars of same dia and grade as the bar being interrupted, one to either side of the conflicting micropile).
- b) Shift the conflicting bar only locally, up to +/- 4" from the typical as permitted above, splicing back to typical spacing (with non-contact splice either side of micropile) as required to avoid any conflicts with other mat reinforcement that may occur due to the shift.

Mat rebar shall not be in direct contact with the micropile or gage steel boot that functions as part of the waterproofing assembly, but rather achieve min 1.5" clear btwn rebar and micropile steel. Refer to 2/A1-8711 for waterproofing assembly info.

T-0632 BGP - Geothermal Field 7 & 8 Manifold Riser Layout

Closed

07/12/2013

07/09/2013

Potentially

From: Webcor Construction LP

Jackson Tukuafu

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Answered By: Adamson Associates, Inc George Metzger

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

Reference: Attached Photos

The initial geothermal riser/manifold layout for Fields 7 & 8 placed the field 7 & field 8 risers between soldier piles 176-177 and 177-178 respectively. To avoid conflicts with the riser install and the temporary 1st bridge, is it acceptable to move the field 7 riser to the CDSM wall panel between piles 172 and 173 and the field 8 riser to the CDSM wall panel between piles 173 and 174? See

ANSWER:

07/02/2013

Accept Suggestion:

It is not acceptable to locate the risers for fields 7&8 as suggested between soldier piles 172-173-174. Riser for field 7 can be located between piles 174 and 175. Riser for field 8 can be located between piles 175 and 176.

It is not acceptable to re-locate temperature probe pipe between 171 and 172. It is acceptable to locate the probe east of risers 7 and 8 between soldier piles



the page, the word "Future" has been deleted. Original

structural drawings deleted the word "Future" . Please

clarify if the CMU walls at the concourse are in TG06's

drawings show "Future CMU walls, TYP". ASI #104

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

JT-WOJV - An MEP subcontractor is projected to

3.

awarded in March 2014. Please remit an RFI isolating

the details of the cooling tower pier, dimensions, etc.

584 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
the tempera soldier pile	notos. Additionally, SCCI is ature probe to the CDSM w beams 171 and 172. ptable? Please advise.				178 and 179.				
T-0633	BGP - ASI#104	4 Clarifications		Closed	07/03/2013	07/13/2013	07/26/2013	Potential	ly
From: Webo	cor Construction LP	Jackson Tukuafu	To: Turner Construction Compar	n Gary Krutsch	Answered By:	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shim	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST:	1		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference:	ASI 104s					I/TT comments.	. WOJV comme	nts	
	receipt of ASI #104 on Jun Please clarify the following				included.				
	et S-2202 to S-2211, the a				1.				
walls at the	concourse are shown to b	e in solid line, for				onfirm this item.			
	0-11. Note 7 on S1-2022 rall drawings for CMU and co				JT/WOJV - Co	onfirmed.			
layout dime	ensions, joint locations, and	d CMU thickness.				onfirm this item.			
	ne corresponding Architect I for wall at concourse (A-2				J1/WOJV - Co	onfirmed, same	as 1a.		
	s changes in Zones 2 and				c. We assume	the RFI means	s sheet range sta These lower co	rting	
	and A-2223 depicts the rev				partition walls	are supposed to	o be dashed. W	OJV to	
	 please confirm that the in ot in TG-06 scope and add 					are NOT part of ice all internal w	f the TG06 packa	age.	
06 contract	will only be the additional				concourse leve		valio below trie		
wall.					d. WOJV to co	onfirm this item.			
,	onfirm that there are no int						r all CMU walls s	shown	
constructed	I in TG06's scope at conco	ours ievei.			on the concou	rse level and b	elow.		
	onfirm that the internal cor es in drawing S-2022 to S-2					2224 through A ² Phase 1 docum	1-2231 have bee	n issued	
	n as 'dotted' or 'ghost' lines								
d) In multip	le drawings (e.g: S1-2204)), at the middle top of					oling tower manu led for the coolin		



REQUEST:

Modifications and RFI T-0633.

Please reference CR T-071 - ASI 104 - Below Grade

Webcor/Obayashi Joint Venture

Webcor/Obayasııı Joint Ventüre

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 585 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

9/11/2013 RESPONSE:

George Metzger

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
scope. e) Please issue rev Zone 11 (A2224-22 layout for the wall p 2) Per S1-2210 revi manufacturer shop clarify which manuf provide dimensions 3) ASI #104 issued and A2847 for Zone the locations of ME previous drawings. a) SCCI has not recolumbing drawings plumbing drawings plumbing drawings sleeves/blackouts s A2842, 2843, 2847, needs to utilize to lead to the serves of t	ised Architectural (31, revised) with the lan at concourse ised, a new note store acturer SCCI is to new "Slab Edge Pe 2, 3 and 7. The new Period shown in the new Architectural drawing ocations at the renewised electrical desired includes the inside store includes the inside store includes the size of the store includes the six of the six	Plan" A2842, A2843 lew drawings depict re not shown in as to concourse langes. The original I to the location of the Architectural drawings ch drawings SCCI openings. s with ninders of the zones. drawings E1-2202 to e electrical rooms. tallation F15 junction		Status	a. Slab edge coordinated v drawings. b. Slab edge Concourse Le Phase 1 docu	plans issued for with updated plui plans for the rer evel have been i imentation. er to attached sk -3201 and SKE-		er :D	Procee
a) Please provide re electrical room layo									
Г-0633.1	BGP - 100% C	D Phase 1 Documentation		Closed	08/27/2013	09/01/2013	09/11/2013	Potential	ilv 🖂
From: Webcor Cons		Jackson Tukuafu	To: Turner Construction Compan Gary				ociates, Inc Georg		,
Co-Author: Shimmick Co	nstruction Compa	ny, Inc Ben Gordon	Tame. Communication Companie Carly			1134		,	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayasiii Joint Venture

Page: Date: 586 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
As per coordination meeting on 08/26/2013, to discuss discrepancies in ASI #104, the architectural drawings for Zone 4 thru Zone 11 (A1-224-2231, A1-2844-2846, A1-2848-2851) are not included in ASI 104. The architectural drawings are critical for SCCI's coordination and pricing of interior wall layout on the concourse level in conjunction with the corresponding structural drawings released in CR T-071 - ASI #104. Although, the design team provided their response to these discrepancies in RFI T-0633 by referencing "100% CD Phase 1 Documentation," the drawings have yet to be released for construction. 1. As per request by the design team, please release the following most-up-to date drawing sheets via this RFI: A1-2224 - 2231, A1-2844 - 2846, A1-2848 - 2851. 2. Please confirm the aforementioned drawings are to supersede current drawings in trade group package TG06.0.				indicated on Indicated on Indicated on Indicated SKAs-2825 to SKAs-2835 to Edge Plans And	RFI T-0633.1 2830 based on 2834 based or ans 2836 based on A Ithough requests s not exist in the on contained in t	e Architectural Di A1-2224 to A1-2 A1-2844 to A1 - A1-2850 to A1-28 ed in the RFI, dra drawing set. he above noted S Vall Plans and Sl	231 2847 51 Slab wing		
T-0634	BGP - Mass C	oncrete Placing Temperature Jackson Tukuafu	To: Turner Construction Co	Closed	07/08/2013 Answered By	07/18/2013	07/18/2013 ociates, Inc. Georg	Potential	lly
	ck Construction Compa		To: Turner Construction Co	mpan Cary Ridison	7.1101101.04 2	-Adamson Asse	olatos, inc ocoly	ge Metzger	
Please refere 7.3.2013, Mat Mat Slab Mod sketch, Mat S section 03 30 concrete plac	nce attached CTL Group Slab Mock-Up thermal k-Up thermal monitoring lab CEMEX concrete ta 20.3.5.B. Shimmick pro- ing temperature for Mas 30 degrees Farenheit.	o letter dated monitoring graph, g sensor locations gs and BOP spec poses the Maximum	SUGGESTION:		ANSWER: Contractor-pr temperature i		gestion: in maximum plac	cement	

From: Webcor/Obayashi Joint Venture Jackson Tukuafu

Co-Author: Shimmick Construction Company, Inc Ben Gordon

T-0635

BGP - REBAR - Clarification to Maximum Allowable Rebar Clear Cover

To: Turner Construction Compan Gary Krutsch

07/09/2013

Closed

07/19/2013 07/17

07/17/2013 Potentially

Answered By: Adamson Associates, Inc George Metzger



/S103 and S102/S 104. SCCI has discovered conflicts between multiple micro piles and the CJ between noted two mat slab areas. SCCI will not be able to construct the joint as shown Detail 2 on CD S 1-3001, with the micro piles in the way. SCCI proposes to modify the mat slab construction joint, to clear the conflicting micro piles, as

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

587 of 1053 11/05/2013

Time: 10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Refe RFI reinforche in as sh RFI confi 33-1/ At so rebal The 737(i allow 31 56 in thi differ cove wate Plea: (unre CDS	PUEST: Perence: Drawing S1-3201, Spec Section T-0608 shows detail of transition betwoerement to contract reinforcement and the shown in the contract drawing. T-0448.5 proposes to decrease the reiguration to accomodate the thinnest /8" to clear all the encroaching SPs. Tome locations, the rebar cover on the rewill exceed 2" Typ as shown in detain worst case scenario in Area 1 & 2 willower), where the beam is 3.6" Too Five a shown in detain the second of the	ween modified and shows that rete wall remains bebar wall section to be evertical wall ail 1/S 1- 3201. If be at SP far from the secontract Spec " (from the rallowable rebar yable 10-1 /4" the secontract spec wall wall wall wall wall wall wall wal	SUGGESTION:		clear cover in location. Infor individual pile way to preser form similar treprovided in ot 2-) Provide clear cover care cover care cover care care individual contract draw	formation provide mation should be within an area of the wall encroscher RFIs. ear cover information the mail reinforcement rings, see our responsistent allowal alculations. For each control of the provided of the provided reinforcement rings, see our responsistent allowal alculations.	nination based on led for the worst c le provided for eac or multiple areas) in would be in table achment informati	ase ch . One ular on ated in 609. ing in	
T-0636	BGP - Micropile a	nd Mat Slab CJ Conflict		Closed	07/09/2013	07/19/2013	07/12/2013	Potentia	lly
From	: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author	r: Shimmick Construction Company,	Inc Ben Gordon							
REQ	NUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe	erence: Drawing S1-3001, Attached S	ketches					the mat construc	tion	
See	attached sketches of the Mat slab joi	int between S101			јони аѕ ргоро	sed in the RFI.			



with verts @ 5"OC

with verts @ 6"OC

Exhibit - C is a cross section showing the original design

Exhibit - D & E depicts possible solutions

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

588 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

30100 - Transhay Transit Center Project

			30100 - 11a	nisbay mans	it Center	roject			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
shown									
on the attached ls this acceptable									
-0637	BGP - CDSM V	Vall Encroachment Rebar D	etails at Spandrel and Concour	se Needer Closed	07/15/2013	07/25/2013	07/26/2013	Potential	ly 🗌
From: Webcor Co	onstruction LP	Jackson Tukuafu	To: Turner Construction Con	npan Gary Krutsch	Answered By	Turner Constru	ction Comr Jeff T	hiel	
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	nestion:		
	RFI response T-0608	and T-0448.5.			The details pro	ovided in RFIs T	-608 and T-448.5	were	
reinforcement de found in RFI T-0 spandrel beam/v Please provide a	a detail depicting an a the concourse level w	r, West of GL 6 the concourse level cceptable			spandral bean similar to prior	egarding CDSM n/wall interface f	encroachment a for specific locatic RFIs. Include det is.	ons	
-0638		b U Bars in Modified WR-2		Closed	07/16/2013	07/26/2013	07/23/2013	Potential	ly
From: Webcor Co	onstruction LP	Michael Spillane	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg			
The contractor h uses of #11@5" piles at encroach Exhibit - A is a w WR-2 area	ments: Exhibits A - E as highlighted a pote OC vertically at the an ning in WR-2 reinforce ertical cross section t ross section showing	ntial conflict with the reas where CDSM ement areas. hrough the modified			acceptable wh "candy cane s standard hook drawings). Not constructability rebar was proj	ere the #11@5' haped bar" shou (refer to detail a te that this RFI s y of the U-bars. ected on Exhibit foundation wall	d in this RFI are rebar is used. The land include 180-du 4/S1-3001 in conseems to focus on the wever, if the tots D or E, clashes vertical rebar (inner land).	eg tract on the op mat s with	



pouring the mat slab.

mat slab pour.

SCCI suggests sealing access holes on the piezometer lower rings (see Photo #1) with Bituthene Liquid Membrane Coating (see attached data) prior to installing the Preprufe Detail Patch per Option C of Grace substitution. SCCI suggests filling all other access holes (typ. trestle piles & monitoring instruments) in the intermediate rings (see Photos #2 & #3) with Sikaflex la Premium Sealant (see attached data & MSDS) prior to

Please confirm this is an acceptable solution.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 589 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject		Stat	tus	Created	Required	Answered	Impact	Procee
One of the proposed solutions Exhibit - D is to have the "U" bars at the contract width of 7.41"(6"+#11 bar dia) and the vertically rebar @ 5" OC and the U bars moves horizontally to avoid any conflicts with the mat slab reinforcement. Another possible solution is to change the "U" bars to a bar with a standard hook "candy cane shaped bar" see Exhibit - E Please confirm if either of these options would be acceptable									
Please confi acceptable	irm if either of these optio	ns would be							
T-0639	BGP - Weld A	ccess Hole repair	Clos	sed	07/16/2013	07/26/2013	07/19/2013	Potential	ly 🗌
From: Webc	or Construction LP	Jackson Tukuafu	To: Turner Construction Compan Gary Kru	utsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Shimn	nick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Please refer drawings, ar Membrane a photos) allov sleeves toge	S1-3003, Spec Section 05 rence attached Pile Sleevend product data/MSDS for and Sikaflex la. Weld accew us to weld the penetrative ther in a continuous vertication of the proproses sealing acceptage.	e pictures, shop r Bituthene Liquid ess holes (see on cal weld (see shop			locations of th welded watert	means and metle steel sleeve e ight closed. The	nods holes in all lements are to b waterproofing d manufacturer's	e etails	



the panel to become destabilized and could reopen the flow of water. BBII surveyed the face of the plate and found that at pile #167, the face of plate is 1/2" out from

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

590 of 1053 11/05/2013 10:53 AM

30100

Time:

Numb	per	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact P	rocee
T-064	1	BGP - Level D Inte	rnal Bracing Removal		Closed	07/16/2013	07/26/2013	07/19/2013	Potentially	
	From: Webcor Constru	uction LP	Michael Spillane	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	ш
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Document:	Exhibit A						ed between the	internal	
	Level D internal bracin not connected together		where walers are			aracing accig		gg		
	Due to the curing requisible, the contractor is sequence to the matest delays. The removal of pour sequence, hower north wall elevation, whorizontal between the and the next level D in becomes an issue who removal with the matest that this is for areas we together. Once the parameters established the contract for each pour area on where the walers have	proposing to have a slab pours, as an effort the level D bracing over as shown in Exhiphat is the maximum as construction joint internal bracing struthen trying to schedule and wall pours. WOJ where the walers are infor the bracing remonant or will create a plathe removal of the ir	"hopscotch" ort to mitigate will follow the bit A which is a clear distance in the mat pours waler. This is the bracing IV understands not connected val have been in and sequence internal bracing							
T-064	2	BSE - Steel Plates	at CDSM Piles 167-168		Open	07/17/2013	07/27/2013	07/18/2013	Potentially	
	From: Webcor Constru	uction LP	Robert Kjome	To: Turner Construction Compan	-	Answered By	:Turner Constru	ction Comr Stac	y Wilson	
Co-A	uthor:		·	,	•	•		•	•	
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	nestion.		
	Reference: Spec Sect	ion 31 56 13				_	mit once the end	roachment requ	irement	
	During leak grouting a CDSM wall panel betw dislodged, resulting in stabilize the damaged BBII installed a steel r 168 and injected grou	veen soldier piles 16 a high volume leak. CDSM panel and st oad plate between s	7-168 became In an effort to op the leak,							
	BBII is concerned that	t removing the plate	will likely cause							



Webcorrobayasın John Ventüre

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 591 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
1/2" out fr leaving th CDSM pa provide a waterprod	etical face of pile, and at pile from the theoretical face of pile e steel plate in place to main unel. The edges of the plate m smooth transition to the CDS offing.	e. BBII proposes tain integrity of the nay be grouted to							
T-0643	BGP - ASI#104	- A1-2122 Added Line		Closed	07/17/2013	07/27/2013	07/19/2013	Potentiall	ly 🗌
From: We	bcor Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shi	mmick Construction Compan	y, Inc Ben Gordon							
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e: Drawing A1-2122, ASI#104	4				d line indicated	in this RFI, is a 3		
	nd attached A1-2122 issued in at do the highlighted lines rep				not part of the have been sho	Below Grade Pown on this Wal	at will added late ackage and shoo I Plan Drawing. 1 -2122 without th	uld not The	
T-0644	BGP - Plumbin	g Scope Clarification ASI 1	04	Closed	07/17/2013	07/27/2013	07/26/2013	Potential	ly
From: We	bcor Construction LP	Jackson Tukuafu	To: Shimmick Construction	n Comp Ben Gordon	Answered By	:Webcor Consti	ruction LP Jack	son Tukuafu	
Co-Author: Shi	mmick Construction Compan	y, Inc Ben Gordon							
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e: Drawing P1-6001, Spec Se	ection 22 13 01			As per the atta	ached drawing:			

See attached marked up Rev 0 and Rev 1 Drawings P 1-6001. Pl-6001 Rev 1 is a revision per AST 104. Rev 1 of the noted drawing does not have any "for reference only" notations in the details.

Is the intent of the Designers to significantly change the scope of TG06 work?

Please clarify the scope of work, i.e. applicable and non

1. Detail 1, 2 and 5 of drawing sheet P1-6001 (ASI #104) depict typical standpipe details. These details are not applicable to the TG06 package.

2. Detail 4/P1-6001 (ASI #104) depicts a change in the floor clean-out cover. This detail is applicable to the TG06 package where the floor drains are either at the concourse and mat slab level and the specific detail is called-out for "floor cleanout detail."

3. Detail 6/P1-6001 is applicable if below the



shown in the attached drawing Al-9215. Contract drawing

Al-9215 details the pier to be 2'0" wide by 1 '4" thick.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

See attached SKA-2783. The pier thickness

dimensions have been removed from this architectural

592 of 1053 11/05/2013

Date: Time:

Page:

Job:

10:53 AM

30100

20100 Transhay Transit Contar Project

001111 12			30100 - 11	ansbay rrans	sit Center	Project			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
applicable package.	e details of the CD P1-6001 for	the TG06			pump details t B2230 and B2 includes embe	nd 12 of sheet P titled "Detail At N 2442." The appli	1-6001 show sun Mech Pump Roon cable scope to TO mat slab or adde g.	n 306	
					WOJV welcon future clarifica		er with SCCI for a	ıny	
-0645	BGP - Door Oper	ning Size at Emergency E	Electrical Room	Closed	07/18/2013	07/28/2013	07/19/2013	Potential	ly
From: Wel	bcor Construction LP	Jackson Tukuafu	To: Turner Construction C	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shir	mmick Construction Company,	Inc Ben Gordon							
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
A new doc comer of t drawing "\$ T-0612. T	REQUEST: Reference: SKA-2748, Spec Section 03 30 20 A new door opening has been added to the Northeast comer of the Emergency Electrical Room B2280 per drawing "SKA-2748" included with the response to RFI # T-0612. There are no dimensions provided for this new door opening on any of the sheets included in RFI # T -				1'-4" piers, as	shown attached	ked by standard 1 I SKA-2774 which IFI T-0612 BGP.		
	onfirm door width to be 3'-5". Re SKA-2748"	eference attached							
-0646	BGP - Wall Pier 1	hickness - 3'5" + 3'5" Or	oenings - Area 3 & 4	Closed	07/19/2013	07/29/2013	07/26/2013	Potential	ly 🗌
From: Wel	bcor Construction LP	Jackson Tukuafu	To: Turner Construction C	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shir	mmick Construction Company,	Inc Ben Gordon							
30 20 There app	T: e: Drawing A1-9215, S1-9050, Spears to be conflicting dimension	ns for the	SUGGESTION:		ANSWER: Accept Suggestion: The 2 piers identified in the RFI sketch are 1'-6" thick as per schedule on S1-9050. The north side of the piers along the corridor shall remain flush with adjacent walls.				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 593 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

JOINT VENTUR	E		30100 - Trans	sbay Trans	it Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
However, based or	o criteria for wall pi	ers as shown on S1-			drawing as th	e nier dimension	ns are obtained fro	m S1-	
9050, the wall pier					9050 as noted			• .	
Please confirm if the attached A 1-9215									
If the wall is to be a which side of the wall.		orovide direction as to aintained flush with							
Г-0647			Reinforcement on the Foundation W		07/19/2013	07/29/2013	07/26/2013	Potential	ly
From: Webcor Con Co-Author:	struction LP	Michael Spillane	To: Turner Construction Compar	n Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Georg	je Metzger	
REQUEST:			SUGGESTION:		ANSWER:	Account Cour			
Reference Docume	ents: Exhibits A - G	3	SUGGESTION.		_	Accept Sug	gestion: waterproofing syst	em	
	foundation wall in ch will have greate				this RFI is acc	ceptable. We no in Exhibit B in is	presented in Exhi te that the referen s incorrect. RFI T-0	ce to	
Exhibit - B & C dep foundation walls w cover to the vertica	nich will have grea								
alignment of the fo		g gridline 1 where the moved by 3-1/8" per							

This RFI assumes that the solution to encroachment on the north wall Area 3 RFI T-621.1 (see exhibit D) is to move the wall 2-3/8" to offset the encroachment is acceptable.

clear cover.

RFI T-576 see exhibit - E due to encroachment issues on CDSM piles see exhibit - G for information on the encroaching piles in this area as a result of this move there are large areas which will have greater than 6" of

Please confirm that the clear cover between the waterproofing system and the vertical reinforcement



From: Webcor Construction LP

Co-Author:

Michael Spillane

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

594 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
0	utlined at these locations is acceptable	9							
T-0648	BGP - Area 1 Clo	ear Cover to the Vertical I	Reinforcement on the Foundati	on Wall Closed	07/19/2013	07/29/2013	07/26/2013	Potential	ly 🗌
Fr	rom: Webcor Construction LP	Michael Spillane	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Aut	hor:								
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
F sl al cc e. E fc cl A aa 55 pi	teference Documents: Exhibits A - G further to response to RFI T-609 (see end to the vertical reinforcement for local values of the vertical reinforcement for local values of the vertical reinforcement for local values of the vertical reinforcement and local values of the vertical reinforcement and local values of the vertical reinforcement values of the vertical reinforcement values of the foundation wall was more see exhibit - E due to encroachment illes, however this has resulted in large ave greater than 6" of clear cover. On the eExhibit - D (RFIT - 448.5) which she wall with the revised reinforcement stands of the vertical reinforcement stands of the vertical values of valu	our area 1, south han 6" of clear ocation plan see ocation of the ater than 6" of the ater than 6" of the oved to per RFI That issues on CDSM erareas which will the south elevation lows the thinning of spacing due to				einforcement as	waterproofing sys presented in Ext		
pi P w	xhibit - G shows the information on en ile in this area for your review. Please confirm that the clear cover betwaterproofing system and the vertical reutlined at these locations is acceptable	veen the einforcement							
T-0649	BGP -Area 2 Cle	ear Cover to the Vertical R	einforcement on the Foundation	on Wall Closed	07/22/2013	08/01/2013	07/31/2013	Potential	ly

To: Turner Construction Compan Gary Krutsch



shaded) showing the areas of the platform that are

candela rating requirements.

deficient. Please confirm the candela rating set forth in the NFPA code are met with the current layout on drawing E1-2026 or provide a new layout that comply with NFPA

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 595 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

(Section 28 30 01-2.6P).

lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Documents: Exhibits A -	G					waterproofing sys		
Further to response to RFI T-609 (s shows the areas of foundation wall wall which will have greater than 6" vertical reinforcement for location p	in pour area 2, south of clear cover to the			and vertical retails and this RFI is acc		presented in Exh	ibit B of	
Exhibit - B & C depict the amount a foundation walls which the will have clear cover to the vertical reinforcer	greater than 6" of							
Exhibit - D & E (RFI T-448.5 and RI the thinning of the wall with the revi spacing due to CDSM pile encroact	sed reinforcement							
Exhibit - G shows the information o pile in this area for your review.	n encroaching CDSM							
Please confirm that the clear cover waterproofing system and the vertic outlined at these locations is accep	cal reinforcement							
-0650 BGP - Fire N	lanagement System Layout C	Conflicts with Class A Design	Closed	07/19/2013	07/29/2013	07/24/2013	Potential	Ily 🔲
From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Com	npan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick Construction Comp	oany, Inc Ben Gordon							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Attached Drawing greatly decr		The revised device layout sho greatly decrease the candela requirements. This layout wo	rating to meet the NFPA	The fire management system design is a performance based design as per Section 28 30 01-1.1C of the contract documents. The Contractor is responsible for				
Review of the fire management system device layout devices. appears to not meet the minimum candela rating of the NFPA code; refer to the attached drawing (dwg. #1,			ala roquito additional	the design of and provide a	the system as redditional visual	equired to meet Nalarm strobes in a gs to meet NFPA	NFPA 72 addition	



Reference: Attached Autocad Drawing

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Correction: This location is at the First Street Bridge,

596 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact P	rocee
T-0651	BGP - Area 3 Pa	artition Wall Clarification		Closed	07/19/2013	07/29/2013	07/25/2013	Potentially	
From: Webcor Co	nstruction LP	Jackson Tukuafu	To: Turner Construction Comp	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author: Shimmick C	Construction Company	y, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Drawing A1-2122,S1-9050, Spec Section 03 20 00, Gerdau's RFI#58 Please clarify if the highlighted portions within the outline of the Partition Walls should be denoted as a different structural element i.e: a column, pilaster ,or a thickened wall that is different than the typical 12" thick partition wall per detail 3/S19050. If the answer is yes, please reference or provide the correct reinforcing detail that is to be applied at each location.					The intent for the partition wall at gridline C.3 to the right of gridline 1.4 is to apply the 9/S1-9050 pier reinforcement & pier thickness required for the door width and pier height at each end of the partition wall and extend to result in a uniform thickness wall to simplify construction. The intent for the partition wall at gridline E to the left of gridline 2 is to apply the 9/S1-9050 reinforcement pier thickness required for the elevator door width an pier height and apply along the full length of this wall. The intent for the partition wall at gridline E.6 to the left of column at gridline 2 is to apply the 9/S1-9050 pier reinforcement for the 12" thick pier.			ier door on wall I to the left ement & dth and is wall.	
T-0652		•		Closed	07/22/2013	08/01/2013	07/25/2013	Potentially	
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Construction Comp	pan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
acceptable to exc	8/2013 OAC Meeting avate level 2 West of tracing has been stres	Gridline 31 once	SUGGESTION:		on connection and prestress end. A 3:1 slo the specificati	xcavation east of n of the level A w ing of the diagor ope for the excav	gridline 31 is coalers on the eas all braces on the attended face is requestion 3.8 D. The	t end east iired per	
T-0653 From: Webcor Co		Bridge Pier 6 Near Mat Dep	oression To: Turner Construction Comp	Closed	07/22/2013 Answered By	08/01/2013 /: Turner Constru	07/23/2013 ction Comr Stac	Potentially	
Co-Author: Balfour Bea		•	a.n.s. Sonotidotton Com	Ca.,			Comp Oldo	,	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		



the 8" X 4" X 1/2" angle it was determined the studs were

not fusing to the base metal (angle). To maintain the procurement schedule of this fabrication needed for the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

studs for angles in this RFI is acceptable provided that at least 2 studs per angle have been verified by bend test per specification section 03 20 00 2.2.C.2, which

597 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

			30100 - 11a		Date	Date	Date	Cost	
Number	Subject			<u>Status</u>	Created	Required	Answered	Impact	Proceed
mat depression penetrations add	Bridge Pier #6 appear at GL 18-C in a simile dressed in RFI T-0479 that RFI T-0479.1 app and that it is to be inclu	ar way to the slab 9.1. blies to Fremont			not Fremont. CMGC is to follow response to RFI T-0475 waterproofing manufacturers recommendathis issue. Upcoming CR T-067R2 will include all location excavation modifications are required due waterproofing configuration requirements a TJPA's approval.				
T-0654	BGP - Mat Sla	b Control Joints		Closed	07/22/2013	08/01/2013	07/25/2013	Potential	ly
From: Webcor C	onstruction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	_
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ched Drawing e attached CJ Layout ts acceptance to move				clear of the thi		ed clearance of pit of mat for the pit a sketch.		
Joints to have a be returned to the	2' clearance of any p	it. Control joints will			for the 3 cloud however, Con and/or verify tl	led locations ide tractor to coordi nat headed she	the CJ layout in the RFI, nate installation of ar reinforcement a an be installed at	f ıt	
T-0655	BGP - Revised	d Attached Method of Nelso	n Studs to the Elevator Pit Embe	edded Anį Closed	07/24/2013	08/03/2013	08/05/2013	Potential	ly 🗌
From: Webcor C	onstruction LP	Jackson Tukuafu	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
•	c Section 05 50 10 the 3/4" diameter by	8" Nelson Studs to			different type	of ferrule (heel)	r of the angle requite address the and used to attach it	gled	



soultions.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 598 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
(Ge und (W with Atta fab	ne 1 - Area 03 Mat Slab placement, our erlinger Steel) used the fillet weld methoder the attached Welding Procedure Sp (PS) to attach studs to the angle(s). The nessed by the dispatched (IR #001459) ached for the readers information and corrication drawing, the employed WPS, at the finished fabrication.	od performed pecifications e welding was) ISI Shop CWI. use are the shop			references Al requirements	,	Paragraph 7.8 for	testing	
the	the alternate means of attaching the Ne e angle, using the fillet weld method in li ethod, acceptable?	elson Studs to ieu of the fusing							
-0656	BGP - Shear Wall	Dowel and Shoring Pip	e Bracing Conflict	Closed	07/24/2013	08/03/2013	08/07/2013	Potential	ly 🗌
Fro	m: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	y: Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Auth	or: Shimmick Construction Company, I	nc Ben Gordon							
Re A f wa	P-Author: Shimmick Construction Company, Inc Ben Gordon REQUEST: Reference: Drawing S1-3001, Spec Section 03 30 20 A few potential conflicts exist between the typical shear wall vertical dowels and the 36" OD shoring Pipe Struts in Area 1. See attachement for locations of conflict.		SUGGESTION:			Accept Sug or proposed lap only at locations v		exists.	
	sed on Detail A shown in S1-3260, the II verts will be lap spliced.	typical shear							
wa	r the schedule in Detail 1-S1-3001, the Il reinforcement requires a 63" lap splic top of dowel at elevation -30'-5".								
sho	e centerline of Level D diagonal bracing own to be at EL -29'-0" and the bottom estrut at level D is at EL -30'-6".								
	e pipe strut will potenially encroach on wels since the vertical spacing is #9 at								
	ease confirm that a 60" lap splice is acc ations where conflicts exist, if not pleas								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 599 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

From: Webcor Corp-Author: Shimmick Corp-Author: Shimmick Corp-Author: Shimmick Corp-Author: Please reference at 4105. Per the attached liselectrical conduits the Light Column of Please confirm the light column in both provide the location level. Please confirm the light column in both provide the location level. Please confirm the light column in both provide the location level. Please Corp-Author: Shimmick Cor	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0658	BGP - Embede	ded Conduits in Mat Slab fo	or the Light Column	Closed	07/25/2013	Required Answered 08/03/2013 08/02/2013 y:Adamson Associates, Inc George Accept Suggestion: no embedded conduits required in ab or mat slab. 08/09/2013 08/13/2013 y:Adamson Associates, Inc George Accept Suggestion: ed junction box details on A1-9204 or the flat surfaces (north and south columns along GL D.8 of Platform 2 on details 1 & 2 on A1-9204) and so details 1 & 2 on A1-9204 and so details 1 on A1-9204 and so details 2 on A1-9204 and so details 2 on A1-9204 and so details 2 on A1-9204 and so details 3 on A1-9204 and so details	08/02/2013	Potential	ly 🗌
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By		rge Metzger		
Co-Author: Shimmi	ick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	nce attached drawing E	1-2205 and E1-			,		onduits required	in lower	
electrical con-	ned lighting plan drawing duits shown to be embe umn on drawing S1-6005	dded exclusively for							
light column i provide the lo	m that there are no cond n both the concourse sla cation, route and size of	ab and mat slab or							
-0659	BGP - Mat Sla	b Conduits		Closed	07/30/2013	08/09/2013	08/13/2013	Potential	ly 🗌
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmi	ick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: A	1-9204, E1-6001								
The electrical	conduit details on shee	t A1-9204/Detail 1							
	on E1-6001 regarding the				(refer to note	on details 1 & 2	on A1-9204) and	d shall	
	embedded junction box i								
	at Line D.8 above the Tra				be finished flu	ish to the finishe	d column claddi	ng.	
	1- 6001 indicates all con 2" at the face of the colu				The east and	west sides of the	e columns indica	ated on	
	duits (shown dashed) at							ooxes	
of the TG06.0	ab are to be installed in f contract. The columns	are part of the			and conduits	(refer to detail 1	on A1-9204).		
		•							
be embedded	rify if these junction box I in the columns or stubb ce of each column at all	ped up through the			detail 5 of E1-		ace mounted (re	rer to	
columns plea	duits and boxes are to be se provide a revised em ng conduits as part of TO	bedded conduit							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 600 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

<i>umber</i> -0660	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Proced
-0660	BGP - Clear C	over to Mat Reinforcing at C	DSM Pile Encroachment	Closed	07/30/2013	08/09/2013	08/07/2013	Potentially
From: Webcor C	onstruction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Geo	orge Metzger
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon						
Per Section 1 or shown with 6" of concrete wall. W foundation step the 6" clear dime encroached upo	this is acceptable. Thiwall thickness is being	ab reinforcing is outside face of the wall and mat SM encroachment, -3201 will be s would apply in any	SUGGESTION:		acceptable as the foundatio face. To avoid the mat slab wall shall not note that the within the fout is illustrated i	Accept Sugnation to the 6" clear solution to the 6" clear solution are related this conflict, clareinforcing and comparts to the condition at the condition walls is an detail 1/S1-330 the question incompared to the condition.	ar dimension is par does not cor nforcement at the ear dimension butter face of the For future referembedded colur different. That color of the construction is a single construction of the construction of the construction is a single construction of the construction	he outer etween concrete rence, mns condition uction
-0661 From: Webcor C		trestle penetration sleeve	To: Turner Construction Compan	Closed	07/30/2013	08/09/2013 У :Adamson Asso	08/26/2013	Potentially
Co-Author:	Onstruction Li	Robert Rjoine	Turner Construction Compan	Gary Kruisch	Allsweled b	y-Adamson Asso	ociates, inc Get	irge Metzger
2 bump outs have the access trestly bump out has 4 supporting the reis acceptable sleep outs - 4 trestle p	rings: 4/A1-8711, Attarve been installed onto le in Zone 2 (see attactrestle piles identical set of the access tresteve and waterproof thiles ea.) per detail 4/A byed prior to the concessions.	the South side of ched sketch). Each to the trestle piles ele. Please confirm it ne 8 piles (2 bump k1-8711. The bump	SUGGESTION:		trestle extens 4/A1-8711. Part of this R by the Contra Architect. Th who prepared respond to th should confin details with th copies to the Architect). Contractor sh bump out pie sleeved pene Prior to subm shall review fo	Accept Sug- le to sleeve the sions (bump outs) FI is for a waterpoters, not the syle Contractors shall this waterproofing TJPA and its contall submit dimensions and size for retrations into the sitting dimensions, including but other work and its contall submit dimensions and size for retrations into the sitting dimensions or, including but other work and its contall submit dimensions or, including but other work and its contall submit dimensions or, including but other work and its contall submit dimensions or, including but other work and its contall submit su	B piles for the act of as shown in designed I act of a system designed I ac	proposed by the engineer gn ntractor tions and with he s of cing



From: Webcor Construction LP

Co-Author:

REQUEST:

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Adamson Associates, Inc George Metzger

Accept Suggestion:

ANSWER:

601 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0662	BGP - Clarific	ation for the Response to R	FI T-0631 Micropile Conflict	Closed	08/01/2013	08/11/2013	08/05/2013	Potentiall	 у П
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	- 🗀
Co-Author: Shimmi	ck Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S	pec Section 03 30 20, A	ttached sketches			1. Confirmed.				
	ns on 7/31/13 between i				2. Confirmed.				
following clari relates to the	fications and intent of m response issued for RF teleconfrence.	ethod "B" as it			3. Confirmed.				
to RFI 631 ha come into cor	cover of 1 1 /2" as descriptions been eliminated. The natact with the micropile and the lower portion of t	reinforcing bars may and the waterproofing							
typical contra required to av displacment of reinforcing many weaved arour condition. If the typical reinfor bar is not in th with the next Should the di resolve the cl with another of condition will	ractor's discretion, he/sh ct bar +/- 4" from the cal void clashes with the insi of the typical ay be either for the full le nd the clashes dependin his solution is incorporated cing being displaced such the typical alignment a not adjacent designed/detail splacement of the typical ash with the micropile re- element of the reinforcine be addressed through the Gee attached sketch #1 f	lled out spacing as talled micropile. The ength of the bar or g on the specific ed and results in the ch that the end of the on-contact lap splice led bar is acceptable. Il contract bar to esult in another clash g design this ne RFI process upon							
contract bar of clashing micr resolve the cl bar of the sar either side of	ractor's discretion, he/sh creating a gap in the bar opile. Should this be the ash a lap splice ne grade and bar size w the gap. The splice bar olice. See attached sketo	to allow for the selected method to ill be required at may be a non-							
-0663	BSE - Microni	le Tie-Down detail		Closed	08/05/2013	08/15/2013	08/09/2013	Potentiall	v 🗆

To: Turner Construction Compan Gary Krutsch

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 602 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Detail 1 on S1-3 domed nut on to states that "the the pile to meet in the project sp was returned "N the plate under BBII's micropile acceptable to m	wing: S1-3003 mittal: TG0300-620.1 3003 shows a 12"x12" op of the micropile. No contractor is responsi the design load requi pecifications." Submitt No Exceptions Taken" the domed nut as it we design. Please confirmove forward with apprevithout the 12"x12"x2"	ote 1 on S1-3003 ble for the design of rements as stated al No. TG0300-620.1 and did not include as not a part of m that it is roved Submittal No.			Confirmed tha the plate is ac		igned micropile v	vithout	
0664	BGP - Conflic	t Between Pit Reinforcing &	Trestle/Pin Piles	Closed	08/05/2013	08/15/2013	08/07/2013	Potentia	lv \square
From: Webcor 0		Jackson Tukuafu	To: Turner Construction Co				ociates, Inc Geor		.y
o-Author:	5 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	outros. Turiudia	To Turner Constitution Of	inpair Gary Riason	7	-7 (441113011 7 (330	olates, me Geor	go Motzgoi	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	restion:		
	wing S1-2022, Attache	ed Photos	00002011014.		_		hat are extending	1	
1.4-2.3 and D.4	allation of the pit reinfo	overed between			beyond limits	of pits and are ir rimmed for only	n conflict with tres the 4 of the 5 loo	stle/pin	
extends beyond mat slab. Gerda conflicting reba	the tail of the #11 pit r the limit of the pit out au proposes to trim the r (Flame Cut) such the he sleeve around the p	and into the main e tails of the at clearance can be			For the 5th loc (which is within 0281.	cation at trestle p n the pit depress	oile located at D.4 sion), see attache	1-4.4 ed SKS-	
Please confirm	this is acceptable or p	rovide direction on				e-cutting that ha ications of this F	as been allowed i RFI only.	S	
pits too.					when the tails the limits of the piles/bridge pic built locations	of pit reinforcen e pits that confli ers, Contractor s and apply detail	inder of the Proje nent that extend I ct with trestle/pin shall coordinate v I similar to 1/S1-3 stle/pin/bridge pie	oeyond with as- 8007	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 603 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0665	BGP - Location	ns of Electrical Outlets, Equ	uipment, and Fixtures	Closed	08/05/2013	08/10/2013	08/07/2013	Potentia	ly 🗌
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmi	ck Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sp	pec Section, 26 05 34					ot match archit	ectural wall dime	nsions.	
of the equipm via RFI for cla	ion Section 26 05 34, 3. ent fixtures and outlets a rification pre pour. Attac m B2221 in the pour.	are to be submitted			coordinated w sheet A1-9215 architectural w Submitted ske	markup attach vall dimensions. etch does not sh	ted 04/29/2013. ned and coordina	te with Future	
Please confirm that these dimensions are acceptable so that the conduit can be laid out correctly.						ased on interior	iourius		
						ontractor to cod	ed with 3/4" plywordinate layouts t		
					relocated to so	outh wall, 9" fro	door, FATC to be m west wall, as s led. Dimensions	shown in	
Г-0665.1	BGP - Electric	al Locations of Outlets, Equ	uipment, and Fixtures in Electric	cal Room Closed	08/23/2013	09/03/2013	08/27/2013	Potentia	lly 🔲
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmi	ck Construction Compar	ny, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to sketch SK-SC	o drawing A1-9215, 1/E1 CI-0204.2.	-3101 and attached				vised location o	of FATC per original ving items are sti		
Room B2221 the conduit lay	revised electrical condui as requested in RFI T-00 yout and outlet, equipme wn in the attached sketcl	665. Please confirm ent and fixture			Layout does n Contractor to a coordinated w Submitted ske layouts to be a backgrounds a interior clearar All electrical ro	revise and resulith ASI-102, dated the ASI-102, dated to does not should be submitted on cuand all dimensiones. The submitted the submitted be submitted on cuand all dimensiones. The submitted the submitted be submitted to cool and submitted to cool and submitted the submitted th	ectural wall dime bmit layout as ted 04/29/2013. now wall details. Irrent Contract Dons must be base ed with 3/4" plywrdinate layouts to	Future ocument ed on	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 604 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0665.2	BGP - Locatio	ns of Electrical Outlets, Eq	uipment and Fixtures in Electrica	al Room I Closed	09/12/2013	09/22/2013	09/19/2013	Potentially	у 🗍
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to drawing A1-9215 dated 04/29/2013, E1-3101 dated 05/31/2013 (RFI T-0665) and attached shimmick sketch SK-RFI204.4. The attached layout for Electrical Room B2221 shows the dimensions of the conduit locations in respect to the interior walls which are lined with 3/4" plywood per RFI T-0665. In addition, the room is located from grid lines, respectively					George Metzg 9/19/2013 RESPONSE: Layout as sho pumps connec Please submit				
Г-0665.3	BGP - Locatio	ns of Electrical Outlets, Eq	uipment and Fixtures in Electrica	al Room I Closed	09/23/2013	10/03/2013	09/25/2013	Potentiall	у 🗌
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
	101 e conduits for circuits t t included in the TG06	•	SUGGESTION:		circuits to this	se: This stateme panelboard are	ent is correct. The in the main projetle for this phase.		
Г-0666	BSE - Elevato	· Pit Dimensions between G	6L 1.4 and GL 2	Closed	08/05/2013	08/15/2013	08/08/2013	Potentiall	у 🖂
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST: Reference Drawings: ASI #104, A1-9214 / A1-2122 Since the elevator manufacturer has not been selected, please confirm that the size of the elevator pit located between GL 1.4 and GL 2 is to be 10'-8" by 8'-10" as depicted in ASI #104 sheet A1-9214.		SUGGESTION:		contract docui subcontractors shortlist. CMC	ments are accers s on the CMGC GC shall schedu required to allo	mensions noted on table to all the eapproved bidder le hiring of subw CMGC coording	levator		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 605 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Created	Required	Answered		Proceed
Γ-0666.1	BGP - Mat Slak	Clarification to Elevator P	it and Slab Opening Dimensions	Closed	08/21/2013	09/03/2013	08/28/2013	Potential	lly
From	n: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Autho	r:								
Web Ada	QUEST: ocor/Obayashi (W/O) is in receipt o imson Associates, Inc. (AAI) respo E - Elevator Pit Dimensions Betwee	nse to RFI T-0666 -	SUGGESTION:		noted in the c		elevator pit dim nts are coordina		
This response is unacceptable. The Architect has sole responsibility for confirming that the pit dimensions of all elevators and escalators will accommodate the Architect's proposed elevator and escalator systems. Until a 100% IFC set is completed by the Architect, W/O has no definite knowledge of the Architect's proposed					shall confirm coordinated b conditions. The to hire Sub-co	the work of adja etween shop dra ne CMGC shall ontractors at the	pecification. The cent trades have awings and exist coordinate with the required times toop drawings of a	e been ing field ne TJPA o ensure	
Until a 100% IFC set is completed by the Architect, W/O							to coordinate be		
desi conf the <i>i</i>	same applies to all pits and opening documents, only the Architect if firming that these dimensions are a Architect's proposed elevator/escates confirm all elvator pits and slates.	s capable of acceptable for all of lator systems.							
acce	eptable as currently shown on the	contract documents.							
Г-0667	BGP - Geother	mal Loop Excavation in Zo	ne 4	Closed	08/05/2013	08/09/2013	08/07/2013	Potential	lly
From	n: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Autho	r: Shimmick Construction Compar	y, Inc Ben Gordon							
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe	erence: Spec Section 31 23 34.				ARUP Respo		ctor's means and	4	
	ase refer to attached WOJV and Seespondence in RFI #SHIMM000-0				methods.	askeu is Cullia	cioi s illealis all	u	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 606 of 1053 11/05/2013

Time:

Cost

10:53 AM 30100

30100 - Transbay Transit Center Project

			Duto	Duto	Duto	0031	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

To: Turner Construction Compan Gary Krutsch

SCCi is aware of the CDSM wall excavation required for the geothermal field risers, but is not aware of a geothermal specification requiring buttress shaft demolition for the geothermal loop trenches. Specification 31 23 34, Section 3.2 is very clear in the full scope of the ground excavation in soil and wall riser excavation in the CDSM, but it does not cover trenching in buttress shaft concrete.

Please provide a design defining the geothermal fields within the buttress shafts. Please include slot excavation, back-fill and compaction requirements in the the affected buttress'.

BGP - CIDH Temporary Bridge Pier Sleeve Detail

Jackson Tukuafu

Closed

08/04/2013

08/05/2013

Date

08/08/2013

Answered By: Adamson Associates, Inc George Metzger

Date

Potentially

Potentially

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

From: Webcor Construction LP

T-0668

Please refer to drawing S1-3003, A1-8711, SCCI RFI #269 with asbuilt information of CIDH Piles at First Street, and ACI 117-90 section 3.4.1.2

The typical 48" diameter bridge pier detail (6/S1-3003) and waterproofing detail (4/A1-8711, 5/A1-8711 and 6//A1-8711) are designed for a steel assembly i.e. bridge pier, piles for shoring, bracing and trestle columns, pin piles and dewatering wells. As a result, the means of achieving the shown steel pipe sleeve is attainable.

As per submittal package TG0300-201.3, the 48" temporary bridge piers are designed as CIDH (cast-indrilled piles) piles and not steel. Specifications for concrete construction tolerances in ACI 117, section 3.4.1.2 allow for horizontal dimension of unformed members cast against soil for greater than 2 ft. but less than 6 ft. allow for +6" and -1/2".

The penetration sleeves for these piles have been fabricated.

Proposed Solutions:

SUGGESTION:

ANSWER: Accept Suggestion:

Utilization of concrete piles for the bridge piers was chosen by the contractor to suit their means and methods. The sleeve shown on the architectural and structural drawings provide details of sleeving penetrations to permit expected movement and provide a waterproofing interface. Sleeves at bridge piers were indicated on the Bridge shop drawings and the requirements for field measurements before fabrication were indicated on the metal sleeve shop drawings.

New details will not be provided. CM/CG to provide means and methods of adapting concrete pier to suit mat slab waterproofing metal sleeve details.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

607 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Cost Created Required Answered Number Subject Status Impact Proceed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

- 1. Remove extra concrete from the outside diameter of the CIDH pile to allow the fabricated 48" penetrations to fit through means of bushing or grinding the concrete as necessary and utilize sleeves as originally intended.
- 2. Please provide a detail drawing with the 48" temporary bridge pier condition as CIDH pile. Please include a sleeve detail allowing for the aforementioned tolerances and waterproofing. Please note, as typical of CIDH piles, the surface profile varies much greater than the 1/2" gap tolerance required for steel assemblies shown in 6/S1-3003.

T-0669 **BGP - Foundation Wall Vertical CJ**

From: Webcor Construction LP Jackson Tukuafu

Co-Author: Shimmick Construction Company, Inc Filip Filipic

REQUEST:

Reference: Spec Section 033020, Attached Drawings

See attached sketch of the vertical foundation wall CJ.

During construction of the high congestion mockup SCCI has discovered a constructibility issue with the construction of the foundation walls, more particularly, the vertical construction joints. Vertical construction joints are to be constructed as prescribed on Detail 2 of the S 1-3001 CD.

The designed vertical reinforcement consists of the

- a. WR-1 with #11 vertical bars 8" OC. haunch #10 bars 8" OC. and #4 cross ties 6" or 12" OC.
- b. WR-2 with #11 vertical bars 8" OC, haunch #10 bars 8" OC. and #4 cross ties 6" or 12" OC.
- c. WR-2MOD (CDSM Encroachments) with #11 vertical bars 5" OC, haunch #10 bars 8" OC, and #4 cross ties 5".

When rebar configurations noted above are implemented, even with ACI allowed tolerances included, it will conflict

Closed

08/06/2013

08/16/2013

08/09/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

Option 2 will be acceptable (reduce the depth of the foundation wall vertical construction joint to 1.5").



SCCI proposes to modify the mat slab construction joint to clear the conflicting reinforcing steel and pin pile, as

shown on the attached sketches.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

conflict with the joint key. Contractor may shift this one conflicting line of shear reinforcement max of 3" to

clear the key.

608 of 1053 11/05/2013 10:53 AM

30100

Time:

JOINT VENTURE			30100 - Trar	nsbay Trans	sit Center I	Project			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
with construction of the forming of the vertical		philic hoses and							
As a possible solution following: 1. Eliminate a column joints to allow constuct SI-3001 2. Reduce the depth of	of cross ties at the tion of the vertical (construction CJs per Det. 2 on							
1.5" (similar to horizon	tal CJ).								
Please advise.									
-0670	BGP - Mat Slab C	ontrol Joints 2		Closed	08/06/2013	08/16/2013	08/20/2013	Potential	ly 🗌
From: Webcor Constru	ction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By:	Turner Constru	ction Comr Stacy	Wilson	
Co-Author: Shimmick Const	ruction Company,	Inc Filip Filipic							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Reference: Attached D	Drawing						sponse. Contract		
Please see attached d SCCI would like to mo around the pit with a ty	ve the green cloude				review and the	Rev 1 RFI cont	RFI T-0670.0 wa ains the same re n additional locat	quest	
Please verify this chan	ige to be acceptabl	e.							
-0670.1	BGP - Mat Slab C	onstruction Joint Conflicts		Closed	08/19/2013	08/29/2013	08/30/2013	Potential	lv 🖂
From: Webcor Constru		Robert Kjome	To: Turner Construction Com				ciates, Inc Georg		.,
Co-Author: Shimmick Const	ruction Company,	Inc Ben Gordon		,				gg-:	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Reference: Spec Secti						posed CJ layou	t as presented in	the	
Please see attached s has discovered conflic reinforcing steel, pin pi	ts between the CJ						ot inquired yet, or the column at F-		



Please advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

609 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Is this acceptab	ole?								
T-0671	BGP - Control	l Joint Amplitude		Closed	08/08/2013	08/18/2013	08/12/2013	Potential	ly 🗌
From: Webcor 0	Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author: Shimmick	k Construction Compa	ny, Inc Ben Gordon							
	ontract drawing S1-30		SUGGESTION:			Accept Sugg and horizontal cor all, see response	ntrol joints at the		
is requesting ac face of the cont waterstop and i will remain on t	control joints of the fou cceptance to eliminate trol joint keyway where injection hose is to be he diagonal portions o rify the use of this proc	amplitude on the hydrophilic installed. Amplitude f the CJ. This RFI is							
T-0672	BGP - Fire Ma	nagement Device Layout		Closed	08/08/2013	08/18/2013	08/14/2013	Potential	ly 🗌
From: Webcor 0	Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Turner Constru	ction Comr Jeff	Thiel	- Ш
Co-Author: Shimmick	k Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
meeting on Mor does not meet of the mat slab to every other color code requirements stubbed up at each having circuit rundevices are add that the stub up	n the fire management nday 8/5, the contract code for current draw. the devices shown on umn will not be sufficie ents for the future fully every other column, the uns that will end up do ded in the future. Siem os are made at every of I current draw when de	plan device layout The stub ups from the contract plans at ent enough to meet occupied space. If e consequences are ubling when the tens recommends column which will			performance 1.1C of the c responsible f stub ups and	agement system based design as ontract documen or the design of t device layout, as code requiremen	per Section 28 3 ts. The contracto he system, inclu- s required to adh	or is ding	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

610 of 1053 11/05/2013

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0673	BGP - Displac	ement of Cap Bar for Supp	ort	Closed	08/12/2013	08/22/2013	08/13/2013	Potential	ly 🗌
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction C	Compan Gary Krutsch	Answered By	:Webcor Constr	ruction LP Jack	son Tukuafu	
Co-Author: Shim	nmick Construction Compa	ny, Inc Ben Gordon							
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	: S1-3600, Attached RFI 06	9					tware. This RFI		
See attach	ned Gerdau's RFI#069					CCI on 08/08/20	13, TT rejected t		
one top ca beams for	tractors option, Gerdau is rept bar every 5' OC within the support. Allowing the displayed reduce congestion near	e moment frame acement of one top			proposed and	nauve:			
Please cor	nfirm that this is acceptable								
Г-0675	BGP - 400 Ser	ies HRC Couplers Assembl	y Procedure	Closed	08/12/2013	08/22/2013	08/16/2013	Potential	ly 🗌
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction C	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shim	nmick Construction Compa	ny, Inc Ben Gordon							
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
SCCI is in	: Spec Section 03 30 20 receipt of the approval to Son TG0600-077 .1 to approv				Substitution, t	•	nse to the Reque the couplers sha ocedures.		
400 Series the approv noted that	s Couplers at Vertical Walls red Request for Substitutior assembly of the couplers is t adherence to the manufac	. The comment on s to be completed			allowed with the second is confirmed the second acceptable.	ne use of qualific nat hand tighten Contractor shall for personnel tha	that hand tighter ed operators, the ed procedure is submit operator at will be perform	erefore it	
installation testing, tes all support the of the	manufacturer of the coupler instructions, video footage it result and an operator quing the assembly of 400 serious couplers install tightened" procedure.	of performance alification procedure,			ug.none				
"hand tight recommen	nfirm that the assembly of to the sacceptable based on the dation as it was not directy ubmittal comments.	is manufacturer's							
	ne performance testing can u.be/M5pFkjOgdN8	be viewed :							



call out nor provide details for the sand oil interceptor and

baffle wall that is called out

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 611 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Procee
Г-0676		b Construction Joint at 3ft (Chamfer	Closed	08/13/2013	08/23/2013	08/22/2013	Potentially
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By		ociates, Inc Geo	
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon	·	•			·	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference: Drav	wing S1-3201, Spec S	section 03 30 20			Contractor-pro	oposed Option 2	is acceptable (t shown on RFI sk	
reference Contr During layout of discovered a co ofthe mat slab C	ketch of the mat slab wact Drawing S 1-3201 the bulkhead for the instructibility issue with CJ keyway as depicted at slab interface with the	, and RFI T- 0669. mat slab SCCI has n the construction d on Detail 3 on SI-						
keyway are: a.# 4 U-bars as bars are spacec horizontally with WR-2, or WR-2	bars that are in conflicted on detail3 or defined on detail3 or defined from the respect of the type MOD) ace bars- #10 at 8" OC	n SI-3201. These 5", 6" or 8" OC be of wall (i.e. WR-1,						
even with ACI a	nfigurations noted about llowed tolerances inclusion of the waterstops, hy nat slab CJ.	uded, it will conflict						
following: 1. Eliminate a second to allow concord SI-3001 2. Transition ma	ection to this issue SC ection of#4 U-bars and nstuction of the vertica at slab keyway to mato at 1 1/2" depth (refere	d 3' chamfer face al CJs per Det. 3 on ch the foundation wall						
Please advise.								
Г-0677	BGP - Sand O	il Interceptor and Baffle		Closed	08/13/2013	08/23/2013	08/23/2013	Potentially
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
	ification section 22 13 , and SCCI's RFI 255	•			•	s are post-install rstructure Concr	ed and will be pa ete Package.	art of the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 612 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
in SP 22 13 (Please provio baffle wall.	01 2.5. de details for the sand oi	il interceptor and			#5@8" OC E	A WAY, bars cer vy dowel embedr	concrete walls wit ntered in wall. Po nent depths per		
T-0678	BGP - Stair 20	03 Embed Conflict		Closed	08/13/2013	08/23/2013	08/27/2013	Potential	lly
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimm	nick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please see attached SI-2022, SI-7004 and SI-7602. Please confirm full length L8x4xl/2 embed, as shown on detail 2 of S 1-7004 is required. This embed may conflict with future walls as shown on detail 2 of S 1-7004.					detail 12/S1-7 location as th	7602 are not requ	aming shall attach		
T-0679	BGP - CDSM	Wall leaks		Closed	08/13/2013	08/23/2013	08/27/2013	Potential	lly
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y:Webcor Consti	ruction LP Jacks	son Tukuafu	ı
Co-Author: Shimm	nick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: A	Attached Photo, Spec Se	ction 07 12 10				ed remedial work	by SCCI is Article 3.07, Sec	· Cara D	
above Level of the Area 3 ponding wate ES Watersto excavation. \$ areas of high review and p how the leak Adcor Water activated wat	ence the attached photo. D bracing have created a protection slab in multiper is triggering the Ad comp (see photo) along the pSCCI has had minimal subleakage to help mitigate rovide direction as to s will be mitigated. As fo stop, SCCI suggests cutterstop and installing a noth sides. Is this	standing water on top ble areas. The r perimeter of the uccess shimming the e the water. Please r the repair of the ting and removing the			of the genera materials to p product data, required for a replace dama Please coord locations whe currently cool	I conditions; SCG prevent damage. proper confiner ny premature swaged material. inate accordingly are areas of high	CI to protect insta As per the appronent time restriction relling or remove and with WOJV for solution. As performing mitig	lled oved ons are and specific	



foundation walls which the will have greater than 6" of

RFI T - 627.1 shows the thinning of the wall with the revised reinforcement spacing due to CDSM pile

clear cover to the vertical reinforcement

encroachment in Area 6.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 613 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0680	BGP -Area 7 (Clear Cover to the Vertical F	Reinforcement on the Foundation Wall	Closed	08/14/2013	08/24/2013	08/22/2013	Potentially	у 🗌
From: Webcor Cor	nstruction LP	Michael Spillane	To: Turner Construction Compan Ga	ary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
Further to respons shows the areas of north & south wall 6" of clear cover to plan see exhibit - A Exhibit - B & C defoundation walls with the clear cover to the RFI T - 628.1 which revised reinforcement of the encroachment in A Please confirm the waterproofing systems.	of foundation wall in elevations which we the vertical reinfor A pict the amount and which the will have givertical reinforcements shows the thinning the thinning the spacing due to	e exhibit - D) this RFI pour area 7, on the vill have greater than rement for location d location of the greater than 6" of ent eng of the wall with the CDSM pile etween the I reinforcement as	SUGGESTION:		ANSWER: Accept Suggestion: The clear cover between the waterproofing system and vertical reinforcement as presented in Exhibit C this RFI is acceptable.				
T-0681 From: Webcor Cor Co-Author: REQUEST:		Clear Cover to the Vertical I	Reinforcement on the Foundation Wall To: Turner Construction Compan Ga	Closed ary Krutsch	08/16/2013 Answered By	08/26/2013 :Adamson Asso	08/22/2013	Potentiall y	<i>,</i> [
Further to respons shows the areas of north & south wall 6" of clear cover to plan see exhibit - A	of foundation wall in elevations which wo the vertical reinfor	e exhibit - D) this RFI pour area 6, on the vill have greater than rcement for location	SUGGESTION.		The clear cov	er between the einforcement as	gestion: waterproofing sy presented in Ex		



Further to response to RFI T-609 (see exhibit - C) this RFI

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 614 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

			30100 - 11ans	suay mans	Sit Ceriter	Project			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
waterproofin	irm that the clear cover be ng system and the vertical hese locations is acceptat	reinforcement as	ear Cover to the Vertical Reinforcement on the Foundation Wall Closed Michael Spillane To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Met SUGGESTION: ANSWER: Accept Suggestion: The clear cover between the waterproofing system and vertical reinforcement as presented in Exhibit Co						
-0682	BGP -Area 5 C	lear Cover to the Vertical R	einforcement on the Foundation Wa	all Closed	08/16/2013	08/26/2013	08/22/2013	Potential	ly 🗌
From: Webco	or Construction LP	Michael Spillane	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference D	Documents: Exhibits A - D								
shows the a north & sout	esponse to RFI T-609 (see treas of foundation wall in th wall elevations which w over to the vertical reinfor hibit - A	pour area 5, on the ill have greater than			this RFI is acc		presenteu III Ext	IDIT C OI	
foundation w	k C depict the amount and walls which the will have go to the vertical reinforceme	reater than 6" of							
revised reinf	1 shows the thinning of the forcement spacing due to ent in Area 5.								
waterproofin	irm that the clear cover being system and the vertical hese locations is acceptal	reinforcement as							
-0683	BGP -Area 4 c	lear cover to the vertical re	inforcement on the foundation wall	Closed	08/16/2013	08/26/2013	08/22/2013	Potential	
	or Construction LP	Michael Spillane	To: Turner Construction Compa	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug		0000	
Reference L	Documents: Exhibits A - C				information no	otea. See the res	sponse to RFI T-(J6U9.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 615 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

shows the clear cover to the vertical reinforcement on the foundation wall in pour area 4 for location plan see exhibit - A

Exhibit - B depict the amount of clear cover to the vertical reinforcement on the foundation wall in area 4, however there are no areas which will have greater than 6" of clear cover so this RFI is for information only.

RFI T - 622.1 shows the thinning of the wall with the revised reinforcement spacing due to CDSM pile encroachment in Area 4.

Please confirm that the clear cover between the waterproofing system and the vertical reinforcement as outlined at these locations is acceptable.

T-0684 BGP - Couplers for Future Construction

From: Webcor Construction LP Robert Kiome

Co-Author: Shimmick Construction Company, Inc Filip Filipic

oo Addion on in inch construction company, inc i inp i inpic

REQUEST:

Reference: Drawing S1-3206, Spec Section 03 30 20

See attached photo of the form savers that are going to be used for the coupler for future construction as depicted on Detail 4 of S1-3206, and Detail 6 of S1-3001.

SCCI believes that Detail 6 on S1-3001 is not applicable due to the following:

- As shown on the attached photo, epoxy coated form savers have tin cap incorporated into the coupler body. This tin cap will protect the rebar until the future construction.
- 2. Whatever tar is intended to be used with form savers in not compatible with the Grace waterproofing.
- 3. Detail 6 on S1-3001 is a detail for the slabs, where future walls are to be constructed.

SCCI proposed to install the coupler for future construction as shown on Detail 4 S1-3206 with form savers set

Closed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

08/19/2013

08/29/2013

08/28/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

ANSWER: Accept Suggestion:

Thornton Tomasetti does not object to the contractor's proposal, contained in RFI T-0684 BGP, regarding couplers for future construction.

The proposal contained in this RFI also concerns a waterproofing system proposed by the Contractors, not the system designed by the Architect. The Contractors should have their engineer who prepared this waterproofing system design respond to this RFI. Until that is done, the Contractor should confirm all waterproofing system questions and details with the waterproofing manufacturer (with copies to the TJPA and its consultants and the Architect).



T-0687

BGP - Drain Line Conflict with Reinforcement

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

616 of 1053 11/05/2013

30100

Time:

10:53 AM

Potentially

30100 - Transbay Transit Center Project

08/22/2013

09/01/2013

09/03/2013

Closed

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
against the to	waterproofing membrane. at waterproofing is not dar	Care shall be taken maged.							
Is this accep	ptable?								
-0685	BGP - North S	hear Wall Concrete Mix		Open	08/09/2013	08/23/2013	08/29/2013	Potential	ly 🔲
From: Webc	or Construction LP	Marina Rosso	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attache	ed drawing regarding the N	lorth shear wall.			Contractor-pro		mix use at north		
wall, founda differentiatin assigns the	monolithic pours at the inte tion wall and mat slab cha ng concrete mix uses. The portions of this intersection ng concrete mix.	amfer, there will be attached drawing			Sileal wall is a	осернаше.			
Please verify location as a	y the use of these concret acceptable.	e mixes at this							
-0686	BGP - Drain Li	ne Conflict with Micro Piles		Closed	08/22/2013	09/01/2013	09/04/2013	Potential	ly
From: Webc	or Construction LP	Marina Rosso	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attache	ed photo and CD PI-2030.						etween micropile sin indicated in R		
GL K5 SCC conflict with	med layout of the drainage I has discovered that a row the 4" cast iron pipe drain drain line run to clear the r	w of micro piles is in line. SCCI suggest			0686 BGP has drainage pipin	s been relocated g will run straig	d slightly north. The from the catch attached PSK-203	he based	
Is this accep	ntahle?								



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 617 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor Construction LP	Marina Rosso	To: Turner Construction Compa	an Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
REQUEST: See attached photos and CD P 1-203 Tails of the bottom rebar mat at the dinterfering with the construction of dracatch basin. SCCI proposes following: 1. Shift the catch basin to where it clereinforcement tails. 2. Cut the rebar tails to allow installat lines and the catch basin. Please advise.	rainage pit are ainage lines and ears the	SUGGESTION:		with the catcl	n basin for this lo	gestion: par tail ends that o pocation may be cu ax may be cut off.	it to	
From: Webcor Construction LP	No 6 Conflict with Future Jackson Tukuafu	Walls To: Turner Construction Compa	Closed an Gary Krutsch	08/23/2013 Answered B	09/02/2013 y :Adamson Ass	09/04/2013 ociates, Inc Geor	Potential ge Metzger	ly
REQUEST: Please refer to attached drawing S1-3205 (ASI 100) and attached photos. Drawing S1-2052, shows pin pile No. at GL D.8/4 encroaching the future rewall (RCW). As a result, the coupler drawing 5/S1-3205 cannot be installe the pin pile 43'x43" block-out is located. Please confirm it is acceptable to red between the mechanical coupler for the from 8" O.C. to 4" O.C. as shown in 3205, The revised coupler spacing we distance of three feet on either side of compensate for the coupler that cannot the block-out/pin pile location.	2052 (ASI 102), S1- 6 (43"x43 block-out) inforced concrete s shown in detail d in the area where ed. uce the distance he future 12" RCW detail drawing 5/S1- rould only span a f the block-out to	SUGGESTION:		OC each face partition wall submittal TG The OC space each face for inquired bloc	e per S1-9050 as on plan as well a 0600-301.2. sing of the vertica a distance of 3	ent for this RFI is is it is labeled as a as reflected in rebal dowels shall be 0" on either side al bars within the	ear 6" OC of the	
-0689 BSE - Micropi	les in Depressions Robert Kjome	To: Turner Construction Compa	Open an Gary Krutsch	08/23/2013 Answered B	09/02/2013 У :Adamson Ass	08/30/2013 ociates, Inc. Geor	Potential ge Metzger	ly 🗌



3.Use galvanized and painted plate instead of stainless

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

618 of 1053 11/05/2013

Time: Job:

- Coating of weld and stainless steel member 30mm beyond weld (welding procedure submittals)

10:53 AM 30100

Numb	per Subject	<u>Status</u>	5	Date Created	Date Required	Date Answered	Cost I Impact	Proceed
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sketch: attached Reference Email: attached			This is accept	able with the de	esign team.		
	The micropile designer has confirmed that it is not necessary to extend the micropile to within 6" of the top of concrete and that the 5' embedment in the sump pit is adequate. Please confirm that this is acceptable to the design team.							
T-069	0 SSS - Stainless steel welded to cast in	ron Close	d	08/23/2013	09/02/2013	09/05/2013	Potentia	lly
	From: Webcor Construction LP Robert Kjome	To: Turner Construction Compan Gary Kruts	ch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-A	uthor:							
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Drawing: 1/S1-6056 A number of details throughout structural steel drawings indicate stainless steel welded to cast iron or mild steel, see detail 1, 2/S1-6056 as one example. If two metals are fused, cast iron welded to stainless steel results in carbon migration. The chromium in the stainless and carbon in the steel have affinity for each other at elevated temperatures that results in carbon and chromium combining to form chromium carbide. This turns the welded area into hard and brittle material with a potential			shown. Weldir established m appropriate we methods, ther such as: - The fabricate steel to carboi submittals)	ng stainless sterethod, which caelding method. Are are certain poor to be approved a steel and/or cae	be executed in the let to carbon steem be done using As with all welding into the consider of the consider of the consider of the consideration of the consi	el is an an ng lered, ainless cation	
	for rust that overtime has a high possibility to crack and fail.			 The welder to to carbon stee submittals) 	o be approved f el and/or cast st	or welding stainle eel (qualification	ess steel	
	For Det. 1 and 2 on S1-6056 the added tension from cables may contribute to failure. The proposed solutions include:				paration before vedure submittals	welding necessars)	гу	
	1.Use stainless steel instead of mild steel for the bottom connection plate thus welding stainless steel to stainless steel. Where the bottom plate has to connect to structural steel use bolted connection with thin dielectric isolator between two surfaces.			submittals in overification) - Surface prep	combination with	rial (welding proc n structural desig elding (welding pi	jn	
	2.Replace welded connection to bolted connection with an isolator.			submittals) - Coating of w	eld and stainles	s steel member	30mm	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

619 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

reinforcement is acceptable.

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
steel plate.					- etc.				
Please advi	ise.				engineer and solutions. Sind built detail, the detail with sup	fabricator are from the fabricator are that specific of contractor can oporting docume	llaboration with hi ee to propose alte connection is a de submit an alterna entation (structura ne design team.	ernative esign- ative	
-0691	BGP - FF&FL \	Values for Mat Slab and Co	ncourse Slab	Closed	08/23/2013	09/03/2013	09/03/2013	Potential	ly 🗌
From: Webo	cor Construction LP	Jackson Tukuafu	To: Turner Construction	n Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimr	mick Construction Compar	ny, Inc Don Muns							
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	onfirm the contract docum	etns (TG06.0) do not			1. Confirmed.		- Ш		
2. Also, plea specification any recomn surfaces. Fu	F value for the Mat Slab. ase reference ACI 302.1R n 033020.3.6.B. ACI 302.1 nendations on F-numbers urthermore, table 8.15.3.b strates to achieve FF value	R does not provide for broomed of ACI 302.1R (page			slab is addres particular RFI, Concourse top	sed in this RFI please separatoics.)	mat pour, only the response. For thit ie the Mat and Lo	s wer	
grade, it mu	ust be a smooth, floated su	ırface.			surfaces of inc	quiry.			
broom/rake	ify if the designer intends to finish, or intends to have to a value of 20.								
3. Please o	confirm the concrete finish	within the train box.							
-0692	BGP - Rebar C	Configuration at Moment Be	eam with Incorporation of S	-3 vs T-9 Ties Closed	08/23/2013	09/03/2013	08/30/2013	Potential	ly 🗌
From: Webo	cor Construction LP	Jackson Tukuafu	To: Turner Construction	n Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: Shimr	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	r to attached detail 3 on dr erdau Sketch SK-Gerdau F	3				•	ement configuration		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

620 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Please confirm it is acceptable to instance T-9 tie as shown in the attached sties in the moment frame beam in lieuties as depicted in detail 3/S1-3603. Concrete reinforcement configuration the constructability issues associated hooks under the 1.5" of clear cover be beam bars.	sketch for the vertical of installing all T-9 The proposed is needed to avoid with alternating the							
0693 BGP - Conduit	s in Columns		Closed	08/23/2013	09/02/2013	08/27/2013	Potential	lly 🔲
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
From discussions with the Design Tea informed that a number of columns wi steel jackets. Columns with Fire Mana jackets will require the conduits and jembedded. It is noted that the jackets height, so the j-boxes will be flush with Please provide the locations of the aff height for the boxes.	Il have post installed agement and steel boxes to be s will not be full in the concrete face.			2808R1, SKA- locations of th which will rece embedded cor shows the mo electrical boxe WSP respons backboxes wil within the colu terminating int Contractor sha conduits such boxes does no boxes). Thes required to foll	2809R1, SKA-2 e West End B2 eive post installe nduits. The attace unting height of es for these colu e: On the steel j I be surface mon mn. Conduit will to the back of th all lay out and ro that the numbe of exceed code (e embedded co	acketed columns unted with condul exit the column e surface mount oute the embedder of bends betwee 360 degrees betwed unter the shall not kill mines, and di	the blumns and 32 anted s, lit routed ed box. eed een ween be rect	

To: Turner Construction Compan Gary Krutsch

Closed



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 621 of 1053 11/05/2013 10:53 AM

Time: Job:

bars to the west of the opening will remain as placed.

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author: Shim	nmick Construction Compar	ny, Inc Chris Williams							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In the MEP meeting on 9/4/13, the response to RFI T-0693 was clarified. To confirm conversations with the WSP Electrical Design representative, the only conduits to be embedded in columns per the RFI T-0693 response are to be fire management conduits per the locations depicted in the response. All other conduits (power recepticals etc) are to be stubbed up on the face of the columns and are not to be embedded in the column.					(power receptate to the face of the mbedded in the receptacles with installed steel note that the conface, to allow find jackets. There of the steel jackets with the plumbethan 5" to the steel steel in the steel jackets.	acles etc.) are the columns and the columns. The columns. The columns are to conduit face and the post-instare also plumb keted columns relative to the columns are documents.	ne conduits and ounted on the post be stubbed up wit at the concrete colustallation of the steping risers on a number of the pipe risers stolumns in accord, but should not bin, to permit post	djacent t- h 5" imn el mber should	
T-0694	Additional Rel	bar Conflict for Plumbing T	rim at GL2/D.4	Closed	08/26/2013	09/03/2013	08/27/2013	Potential	lly
From: Web	cor Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author: Shim	mick Construction Compa	ny, Inc Ben Gordon							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	er to drawings 1/A1-2122, 1 erdau sketch SKS-1	/S1-3501 and			to the east of t	he trimmed ope	o omit additional to ening is acceptable arid 2/D 4 Added	e for	

the opening. The alternative solution would be to install the additional steel in a new layer below the top mat; however, due to proximity of the piping to the steel the bars cannot

options:

A. Omit the additional trim bars to the East of the trimmed opening.

be placed below the top mat. Gerdau proposes the folloing

Due to the density or the typical N-S top mat bars (#10)

and additional bars (#11) near the elevator pit at Gridlines 2 and D.4, the additional trim rebar per 1/S1-3501 for interrupting the bars over the plumbing opening cannot be installed to the East of the plumbing opening within 3" of

B. Relocate the additional trim bars approximately 3'-0" East of the opening where the rebar spacing would allow for additional steel.

Please advise if proposed options are acceptable.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 622 of 1053 11/05/2013

Time:
Job:

in the SKS, resulting non-contact lap splices will be

tolerated up to 6".

10:53 AM 30100

ımber <u>Subject</u>				Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
(see attach	ed SKS-1)								
0695	BGP - Addition	al Rebar Conflict for Floor	Sink Trim GL B.7/2.7	Closed	08/26/2013	09/02/2013	08/27/2013	Potential	
From: Webo	cor Construction LP	Jackson Tukuafu	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor		, _—
o-Author: Shimi	mick Construction Compan	y, Inc Ben Gordon							
Due to the cadditional N (#11 with lasink at Grid 1/S1-3501 for opening. The additional section of the padditional between the additional between the pin allow for the trim bars.	ed Gerdau's RFI #72, 1/S1- erdau sketch SKS-1 density of the typical N-S to I-S top mat bars (#11) and p splices directly over floor lines 2.7 and B.7, the addit for interrupting the bars ove not be installed on either s he alternative solution would teel in a new layer below the proximity of the plumbing pi ars cannot be placed below hal bar to the East of the op- pile. Gerdau proposes to ce e floor sink installation and of the second second second second second solution	op mat bars (#10), pin pile trim steel sink) near the floor ional trim rebar per er the plumbing side of the plumbing d be to install the ne top mat; however, ping to the steel the v the top mat. Also, ening would conflict cut top mat bars to omit the additional	SUGGESTION:		interrupted ba eliminates (2) the drain. One wall add short at the no considered int Reinforcing we cut zone, will I required to be Reinforcing ea cut zone, will I required to be	ars will be calcurs each side in I pin-pile add bar par interrupted by the errupted by the est of the drain one jockeyed wescut. The properties of the drain one jockeyed eas cut. The properties of the drain of t	lated as ½ the ni ieu of ½+1 bars. It is being interrupt by the drain will be drain and not lead to be drain and not lead	This ed by e cut be thin the are	
					jockeyed east removal of a p Clear spacing bars except w	aided by the pa lumbing add ba of 1db to be ma here lap spliced	aintained betwee	e) n all	



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 623 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0696	SSS - Type 1 D	rag Connection Angles		Closed	08/26/2013	09/05/2013	08/29/2013	Potential	ly 🗌
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
2505, S1-250 The angles sh S1-2502 throu connections to match with the drawings (dra The attached Iron Works) a	nown in the bus deck planingh S1-2507) for the Typoo the bus deck cast node e corresponding angles swings S1-5121 through Smark-ups show our fabrittempt to calculate the alws and compare them to castings.		and Bus Deck 5125) will not a casting types a indicated in Sh minimize their structure which unique casting as indicated S various differe vary in a certa castings have that beams with connected to the In some other during cast no for Casting 35 from 42.25 to 3 Contractor shall	casting angles match in all cas are used at mul leet \$1-5120. The part of unique is more cost of geometry for each et \$1-5120, the points at which in range. The part of the casting. cases, the cast de shop drawing one of the plate of the plate in the coordinate the coordinate the coordinate the coordinate the coordinate the casting.	-2502 through S (S1-5121 through S (S1-5121 through see because some some tiple locations as the design intent of the castings in the effective than devery joint. For expect the casting 21A is used to be wide enough and widths on the to be wide enough angles can be some some some some some some some som	was to eloping ample, ed at ngles gh so revised mple, anged n angle. he			
Γ-0697	BGP - Moment	and Spandrel Beams 180	Degree Hooks Versus 135 Degree	Hooks Open	08/26/2013	09/06/2013	08/30/2013	Potential	lly 🗌
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Comp	•	Answered By	:Adamson Asso	ociates, Inc Geor		,
Co-Author: Shimmi	ck Construction Compar	y, Inc Ben Gordon		·					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached	Gerdau's RFI#068, S1-3	600, S1-3410				oposal to replac	ce the 135 degre		
the 135 degre	ctor's option, Gerdau is re see hooks on the Moment am stirrups to 180 degree	Frame and the				e Beam and Sp	Lower Concours andrel Beam Per		
Please confirm	m this is acceptable.								
Г-0698	SSS - Clash Be	etween Slab on Deck and T	ransfer Girder	Closed	08/26/2013	09/05/2013	08/28/2013	Potential	
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	



From: Webcor Construction LP

Jackson Tukuafu

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

624 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subjec	it		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
R	EQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Drawings: A1-2863 Reference Sketch: attached	s, S1-2303, S1-5000				s as applicable	n cut on plan acro in the Superstruct		
c a	here are many conflicts in the oncrete and the top of the tra rea does not leave the amoune Metal Deck Schedule on 2	Insfer girder in that given nt of space required under			Example: See	section detail 8	3/S1-3705 that is cincluded in the RF		
O G re	for Example: Using the Top C of Steel (TOS) elevation from ccurs between the slab (S3 - birder TR9 (TR9 - TOS: 18.37 equires in the Metal Deck Scl e maintained over the Transf	sheet S1-2303 a clash TOC: 19.00') and Transfer "). The 10" that the S3 deck hedule on 2/S1-5000 cannot							
T-0699	BGP - 0	Catch Basin Requirements		Closed	08/27/2013	09/06/2013	09/30/2013	Potentia	lly 🗌
Fr	om: Webcor Construction LF	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Aut	hor: Shimmick Construction	Company, Inc Filip Filipic							
R	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	see attached page from DBI's nd reference drawings P1-60				Plumbing Insp	ectors, the cato	eeting with the SF ch basin which are vill be installed as	:	
and reference drawings P1-6001 and P1-2022 thru 2030. On 08/26/2013 during pressure testing inspection of the drainage lines in mat slab areas 1 and 2, the SFDBI Plumbing Inspector pointed out that all catch basins in the mat slab should be constructed per city standard catch basin details. However, the contract drawings do not show catch basins details with cleanouts, vents and trap primer connections per the City Standard details.					on contract do		iii be iiistalleu as	SHOWH	
b c s	Please confirm the attached Sasin detail is to supersede al urrently shown in trade groupet. Please include revised placorporating the Clty Standar	I catch basin details package TG06.0 drawing umbing drawings							
T-0700	BGP - V	Vehicle/Bike Beam End Support Er	nbed	Open	08/27/2013	09/09/2013	08/28/2013	Potentia	Ily \Box

To: Turner Construction Compan Gary Krutsch



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 625 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:	Shimmick Construction Company	y, Inc Ben Gordon							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please	e reference attached drawing S1-	-3411 .			The inquired e	embed width is 2	24" as shown in de	etail	
3/4"x4 Howey	orbel section detail I of sheet S1- "x 18" embed plate at the toe of a ver, the embed detail in 1D/S1-34 I width at 24".	the corbel.			ID.				
	e clarify the embed width dimens "x18" or 3/4"x4"x24". Please adv								
-0702	BGP - Chamfer	Bar Top Hook		Open	08/29/2013	09/08/2013	08/29/2013	Potentia	lly 🗌
From:	Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:	Shimmick Construction Company	y, Inc Ben Gordon							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	tached Gerdau's RFI#74. tached SKS-74				bars that are i	n conflict with d	ree hook for the couble shoring walk	ers is	
the exi	effor to prevent the chamfer bar f isting shoring waler beams, Gero se over bending the top hook and ard 180 degree hook as shown on	dau would like to d turning it into a			radius point fo		remain located a		
Please	e advise if this is acceptable								
-0703	BGP - Drainage	Conflicts with Reinforcen	nent	Closed	08/29/2013	09/08/2013	09/05/2013	Potentia	lly
From:	Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:	Shimmick Construction Company	y, Inc Filip Filipic							
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See at S1-300	tached marked up contract draw 05	rings PSK-2022 and					ement of headed ets are as follows:		
constr	of the drainage lines and fixtures ucted in close proximity of the co ly S1-3005 depicts typicall mat s	oncrete columns,			Lines refer to column face.	heads that are ր	perpendicular to a		
sched	ule and details. Some of these sl ill be interfering with the drainage	hear reinforcement					placed 4" in any t the first head. Fi	rst	



We have determined that W40x503 is not produced Domestic melted and manufactured. This size girder

between grid lines 21 and 33.

occurs in 12 locations at the Perimeter Bus Deck Level

This beam is available from import sources, or it can be

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

626 of 1053 11/05/2013

Time: Job:

Please be noted that the W40x503 are not only used

at Bus Deck between Grid 31 and 33. They are also

used at the ground level drag beam along Grid C & G.

Skanska and W/O please provide information on how

10:53 AM 30100

		30100 - Halisbay I	ransit	Center	rroject			
Number Sui	bject	Status	s	Date Created	Date Required	Date Answered	Cost Impact	Proceed
where conflicts occur. Dis	these shear reinforcement bars placement would occur lateraly, d by the grid of the mat slab			parallel to the 2) The maxim 12". 3) The minimu 4) Any line ca previously inte displacement 5) Any line or such that all li column face a within the mid face. 6) The minimu be 4" 7) The maxim be 24". All locations w	column face. um spacing of h um spacing of h n be started 8" a ended starting p is away from th group of lines c nes are within th und the centroid dle third of the p um spacing betw um spacing betw vith displaced he	away from the coneads in a line shalong that line from the constion provided to e column. an be displaced to the projection of the resulting gorojection of the column. In the resulting gorojection of the column adjacent line ween adjacent line ween adjacent line and shall be obsengineer prior to	all be all be 4". om the the laterally ne group is column es shall	
				<u> </u>				
	S - Domestic Manufactured W40x503	Close		08/29/2013	09/08/2013	09/03/2013	Potential	lly
From: Webcor Constructio	n LP Robert Kjome	To: Turner Construction Compan Gary Krutso	ch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug			
5050	2505, S1-2506, S1-2507, S1-			with steel plat	be replaced by es. The plates the rolled shap		flange	
We have determined that	MAOyEO2 is not produced							



shoring waler.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 627 of 1053 11/05/2013 10:53 AM

30100

Time: 1
Job:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
built up	from domestic plate.					ertified to confor	m to the Buy Am	erica	
	050 gives an option for W14 but give an option for W40 colur				clause.				
please	advise								
-0704.1	SSS - Built Up	o Plate Fabrication for W40	x503	Closed	09/16/2013	09/26/2013	09/26/2013	Potential	ly 🗀
From: W	/ebcor Construction LP	Robert Kjome	To: Turner Construction	n Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	- Ш
Co-Author:				. ,			·		
REQUE	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Referer	nce RFI: T-0704				Flange and we		are confirmed. Th	ne	
	It up beam will consist of 1 9/1. Please confirm that these placiate.				wide. The plat General Notes with double 5/3	es shall be AST s SS-1. Web to 8" fillet welds fo	flanges shall be IM A572, GR 50 flange welding sh r 4 ft from each 6 3/8" fillet welds in	per nall be end of	
RFI T-0	b to flange weld was not addre 1704. We would suggest a 3/8' web and flanges.				between. W40X503 are W/O to coordii	also used at Ro nate RFI T-0704	oof and Ground L 4-SSS and T-070	evels. 14.1-	
Please	confirm or provide an alternate	e detail.			SSS response	es with other sub	o-contractors, as	needed.	
-0705	BGP - Haunch	n Reinforcement at Double	Waler Condition	Closed	08/29/2013	09/08/2013	09/02/2013	Potential	lv 🖂
	/ebcor Construction LP	Jackson Tukuafu		n Compan Gary Krutsch			ociates, Inc Geor		.,
Co-Author: S	himmick Construction Compa	ny, Inc John Berggren	Tallion Contourable	. Compan Cary materia	,	, (44)		goo. <u>_</u> go.	
REQUE	EST:		SUGGESTION:		ANSWER:	Accept Sug	nestion:		
	refer to attached drawing 1/S1 SCCI-RFI 305.	I-3201 attached					ment clear cover	as	
condition single v excerpt	field coordination, the double son, where the waler web is low valer, the tail of the #10@8" (rudrawing BM-3t of submittal panaunch reinforcement interfere	er than that of a eference attached ackage TG0600-							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

628 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

JOINI VEN	TORE	30100 - Tra	ansbay Irans	sit Center	Project	•		
Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
repeat at oth	n was observed at Grid 2/ A and will likely er double waler locations. The typical							
where requir double waler the 1-1/2" cle cover. The p	the condition shall be to adjust the position ed, so that the interfering tail clears the web. As a result ear cover will deviate up to 4-112" of clear lan location of the tail shall remain as close the placement drawings. See the attached ther details.							
unaffected b For pieces n	lear spacing shall remain at locations y the reduced clearance of the double-wlaer ot yet fabricated and delivered, please refer as the proposed solution to conform to the 1 wer.	to						
	firm the revised haunch reinforcement clear ordinated in the field is acceptable.							
T-0706	BGP - Locations of Electrical O	utlets, Equipment, and Fixtures	Closed	08/30/2013	09/09/2013	09/13/2013	Potential	lly
	or Construction LP Jackson Tu		mpan Gary Krutsch	Answered B	y: Turner Constru	uction Comr Jeff T	Thiel	
Co-Author: Shimm	nick Construction Company, Inc Chris Willia	nms						
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug			
layout for the	response, please find attached the revised E Electrical Room B2221. This revised layou mensions off of the interior walls as	t		W/O is to res		ition meeting on 9 evised sketch. Re /12/13.		
Please advis	e if it is acceptable.							
T-0707	BGP - Spandrel beam modifica	tions in Area 1 & 2	Closed	08/30/2013	09/09/2013	09/10/2013	Potential	lly 🗌
From: Webco	From: Webcor Construction LP Robert Kjome To: Turner Construction C			Answered B	y: Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:								

Reference Documents: Exhibits A - C

REQUEST:

Further to response to RFI T-637 please find attached

SUGGESTION:

ANSWER: Accept Suggestion:

George Metzger 9/9/2013 RESPONSE:



Number

Subject

Webcor/Obayashi Joint Venture

Status

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

629 of 1053 11/05/2013 10:53 AM

Time: Job:

Cost

Impact Proceed

30100

30100 - Transbay Transit Center Project

Date

Created

Date

Required

Date

Answered

Marrison	Gubject				tatus	<u> </u>	rtoquirou	<u> </u>	Impact	1 100000
pour area 1 & 2 for Exhibit - B shows th necessary due to th made to wall reinfor Exhibit - C shows th reinforcement to co as well as cross sec proposed modified I RFI T-448.5 and T-6 the revised reinforce encroachment in Ar RFI T-576 shows th wall on the west ele	608 shows the thinnin ement spacing due to rea 1 and 2. The revised location of the evation of area 1. These modification as	nibit - A and B cations et and changes I encroachment. modified at spandrel beam lesign and the g of the wall with CDSM pile						ions to the Lower thin Area 1 and 2		
T-0708	•	Beam Modification in Area			losed	09/03/2013	09/13/2013	09/11/2013	Potentiall	у 🗌
From: Webcor Cons	From: Webcor Construction LP Michael Spillane		Michael Spillane To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George					ge Metzger		

Co-Author: REQUEST:

Reference Documents: Exhibits A & B

Further to response to RFI T-637 please find attached proposed changes to the spandrel beams in pour area 3 for location plan see Exhibit - A

Exhibit - B shows the extent of the modifications necessary due to the foundation wall offset due to CDSM encroachment.

RFI T - 621.1 shows the revised location of the foundation wall on the north elevation of area 3 due CDSM pile encroachment.

SUGGESTION:

ANSWER: **Accept Suggestion:** George Metzger

9/11/2013 RESPONSE:

Contractor proposed modifications to the Lower Concourse spandrel beams within Area 3 are acceptable.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

haunch bar may be terminated as shown in Gerdau

SKS-76.3 contained in the RFI. The embedment length for #10 headed bar shall be 18¿. Alternatively, the embedment may be a straight development, either 630 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

			30100 - ITalisi	Jay ITalis	on Center	riojeci			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	6 shows the revised location of west elevation of area 3 againent.								
	nfirm that this modification as s acceptable.	outlined at these							
-0709	BGP - Mat Slab	Added Steel Interference		Closed	09/03/2013	09/16/2013	09/04/2013	Potentiall	ly 🗌
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geor	rge Metzger	
Co-Author: Shin	nmick Construction Company,	Inc Filip Filipic							
REQUEST	Г:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	e Drawing S1-3003 and Spec S ned Gerdau Sketch SK-77, BN				addressed in t	ditions for bars a	at pin/trestle pile: & 3 on S1-3003 at these also apply	as well	
#9@16" (k North-Sou desired sp #9 or #11 hook of ed	e location of select trestle and pottom mat) and #11@16" (togeth layer reinforcement cannot bacing. The proposed solution bars, where interrupted by a papal size or greater (#11 hook illar to the hooks used for the t	o mat) added be installed at the is to cut the added ile, and add a max) with a lap			inquired add b	ars in the RFI. T	The contractor-procations is accep	roposed	
Please co	nfirm if this is acceptable.								
-0710	BGP - Haunch R	einforcement Alternative I	Detail at Dewatering Well in Area 3	Closed	09/03/2013	09/16/2013	09/04/2013	Potentiall	lv 🖂
	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Compan				ciates, Inc Geor		,
Co-Author: Shin	nmick Construction Company,			,	,		, 200.	J	
REQUEST			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference	Drawing: S1 -3201				At conflicts wit		ells, the tail of the	е	

Attached Gerdau Sketch: SKS-76.1, SKS-76.2, SKS-76.3 A portion of the #10 @ 8" haunch bars cannot be installed

Reference Spec: 03 20 00



B. The sharper radius will create a hot spot and

the visual acceptance criteria.

solidification challenges - liquid metal contracts % inch per foot and silica sand expands 1.2% during solidification and as cast hot tear potential in the radius may occur causing welding, grinding and blending. This again will be to meet

C. With a 2 inch radius the appendage (lifting bracket) will be much closer to thermally neutral reducing solidification stresses and potential shrinkage in the section radius.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 631 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
(shoring wale sleeves. Per cannot be ins 0 haunch bar place offthe ty (SKS-76.1 ar obstructions Please confir	I due to conflicts with overs and struts) and the discussions with Sean Notalled due to the obstruct with an HRC 555 head ypical haunch bar. The and SKS-76.2) depict the at the dewatering wells it must be the second to the require headed tail of the modif	ewatering well AcNeil where bars ctions, a modified #1 can be installed in ttached sketches magnitude ofthe n Area 3.			the top of the	bar shall compl	e 180 degree ho y with the RFI T- ocation of the ra	702	
T-0711	SSS - Radius	Change Request for LC301		Closed	09/03/2013	09/13/2013	09/04/2013	Potential	ly 🗀
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered B		ociates, Inc Geo		,
Co-Author:									
(CN0058) no and the lifting inch. We wo minimum of radius on the manufacturin A. The sand and cause be	ange on the light column de has changed the radig bracket from the original like to formally reque a two inch radius in this le 301 bracket creates the ag challenges: in the 1 inch radius in thurn in/on sand adherence tional grinding and work	us between the body al two inches to one st a change to a location. A one inch e following e mold will superheat e to the casting	SUGGESTION:			Accept Sug fillet radius betw 1 and its side fin	een the main boo	ly of	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

632 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

D. Cosmetically a 2 inch radius will look much more presentable in the as cast state.

E. The 1 inch radius will require either chill sand in the radius, a metal chill made in the mold, or solidification cracking brackets as heat sinks to equalize the solidification temperatures and add strength to prevent hot tearing during solidification. Additional grinding of these areas will be necessary to meet visual acceptance criteria.

F. Items A, B, and E will add costs to the manufacturing process of the casting.

Our purpose is to point out the effects of the 1 inch radius design request and make sure that the designers are aware of the potential impact of having the smaller radius versus the 2 inch radius in the original designs that were reviewed. Bradken Atchison can certainly produce the 1 inch radius and manage the effects the 1 inch radius causes, but producing that design will have cost impacts to the casting process.

T-0712 **BGP - Jitter Bug Finish on Mat Slab Surface** Open

09/13/2013 09/04/2013

Potentially

From: Webcor Construction LP

Jackson Tukuafu

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

Reference Spec Section 033020.3.6.B.l.c. See attached photos for a visual reference.

Please reference TG06.0, BGP contract specifications 033020.3.6.B.l.c. SCCI is proposing to finish the top surface of the Mat foundation Slab, as a "Jitter Bug" finish. All other finishing requirements will remain the same.

Is this acceptable?

SUGGESTION:

ANSWER: **Accept Suggestion:**

09/03/2013

The proposed ¿Jitter Bug¿ finish is not acceptable. Future requirements for the train bed are unknown and the proposed finish may not be acceptable in some instances. Use the stiff broom finish per specification section: 03 30 20.3.6.B.1.c

T-0713 **BGP - Spandrel Beam Modifications in Area 4** Closed

09/05/2013 09/15/2013 09/16/2013

Potentially

From: Webcor Construction LP Michael Spillane To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc. George Metzger



shifted towards the East.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 633 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Co-Author:									
REQUEST	Г:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Further to proposed of for location Exhibit - B necessary reinforcem typical cross foundation Please cor	response to RFI T-637 pleas changes to the spandrel bear plan see exhibit - A. shows the plan view of the route to the spandrel beam due to the s	ms in pour Area 4 modification the revised vall as well as modification to the of area 4.			Concourse sp Proper lap sp rebar is trans	oposed modifica pandrel beam w lices shall be pr tioned from 7-1	ation to the Lower thin Area 4 is acc ovided where the /16 inch spacing o pached wall region	ceptable. beam to 6-1/2	
-0714	BGP - Area 3- F	Partition Wall Pier Rebar C	onflict With Plumbing Near GL3/C	.3 Closed	09/03/2013	09/13/2013	09/04/2013	Potential	
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	- Ш
Co-Author: Shim	nmick Construction Compan	y, Inc Ben Gordon							
Near Gridli partition wa (8" with ins the plumbi to move th dowels to of Please pro shift the wa	ned Gerdau's RFI #078. ines 3/C.3, there is a conflict all pier dowels and the instal sulation). The wall pier currer ng pipe by approximately 6". he wall pier to the East, or Wiclear the pipe.	led 6" pluming pipe ntly overlaps with Gerdau proposes est to allow the n (East or West) to	SUGGESTION:		with the pipe Non-corner ve	may be minima ertical bar dowe	gestion: The pier that are in ly bent to clear the law within the pier to e shifted to clear	e pipe. hat are	
	ould need to be moved, sho								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

634 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0715	BGP - Adjustm	ent to CB location		Closed	09/03/2013	09/13/2013	09/04/2013	Potentially	y 🔲
From: Webcor Co	onstruction LP	Joanne Filipas	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	rom Design Team sm at GL 1.8, J ; GL 7.2,						20 and SKA-282 indicated in RFI		
Please provide of	dimensions for the mo	odified locations.							
Γ-0715.1	BGP - Adjustm	nent to CB location		Closed	09/04/2013	09/14/2013	09/05/2013	Potentially	y 🗀
From: Webcor Co	onstruction LP	Spencer Sayles	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to a dated 04/29/2013	ttached drawing SKA 3.	-2820 and A1-2812			It is acceptabl 0715.	e to omit SKA-2	820 provided in	RFI T-	
WOJV, AAI and SKA-2820 providing issuance of this object be delayed by at	ordination meeting be TT, please confirm it led in RFI T-0715. Du change, the Area 3 m least a week becaus per drawing A1-2812 I.	is acceptable to omit the to the timing of the at slab pour would the catch basin is							
Γ-0716	BGP - Haunch	Reinforcement Alternative	Detail	Closed	09/03/2013	09/13/2013	09/03/2013	Potentially	v 🗀
From: Webcor Co	onstruction LP	Marina Rosso	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	•	,
Co-Author: Webcor Co	onstruction LP	Jackson Tukuafu	·	·					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached Ge	erdau's RFI #79.					esponse, contra	ctor-proposed 18		
The RFI Response to RFI T -0702 stated that the 180 degree hook chamfer bars are acceptable where the bars conflict with the double shoring walers. The intent of the RFI was to request the use of the 180- degree hook for the chamfer bars throughout the structure regardless of whether or not the bars were below a double or single					with double sh have not beer bend shall ren 1/S1-3201.	noring walers is n fabricated. The nain located as	pars that are in cacceptable for bate radius point for originally detailed	ars that the d on	
walers.	nat this is acceptable.	Ç				cation and are r	ne bars may be one trestricted to t		



From: Webcor Construction LP

Michael Spillane

Webcor/Obayashi Joint Venture

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

30100

635 of 1053 Time: 10:53 AM Job:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

From: Webcor Construction Please refer to RFI T-0716 As per field review by SCC Engineer, the embedment (see RFI T-716) provided 29". The embedment lengintersection with the wall in shown in the attached Geconfirm the embedment lediscussed with TT field en Prom: Webcor Construction Prom: Webcor Construction REQUEST: Reference Documents: Exproposed changes to the story for location plan see Exhibit - B shows the plan necessary to the spandred due to the revised reinforce wall as well as typical cross on the south elevation will drawing with no modification RFI T-626.1 shows the expoundation wall on the nor 5. Please confirm that this metals are referred to the revised reinforce wall as well and the revised reinforce wall as well as typical cross on the south elevation will drawing with no modification wall on the nor 5.	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Г-0716.1	BGP - Haunch	Hook Embedment Clarifica	tion	Closed	10/08/2013	10/18/2013	10/10/2013	Potentially	у 🗌
From: Webcor Con-	struction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author: Shimmick Co	onstruction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
As per field review Engineer, the embe (see RFI T-716) pro 29". The embedmentersection with the shown in the attack confirm the embed	by SCCI, Gerdau a edment lengths of t ovided average 35" ent lengths are mea e wall interior reinfo hed Gerdau sketch lment lengths are a	and TT Field the haunch hooks but are no less than asured from their broing curtain as SK-094. Please			Created Required Answered		escribed		
Г-0717	BGP - Spandre	el Beam Modifications in Ar	ea 5	Closed	09/09/2013	09/19/2013	09/17/2013	Potentially	у 🗌
From: Webcor Con-	struction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Webcor Con-	struction LP	Michael Spillane							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Further to response proposed changes for location plan se Exhibit - B shows the necessary to the structure due to the revised wall as well as typic on the south elevated drawing with no modern the south shows foundation wall on the south shows for the south shows foundation wall on the south shows for the sho	e to RFI T-637, pleato the spandrel beate Exhibit- A the plan view of the pandrel beam on the reinforcement width cal cross sections. It is too will be installed podifications necessary the north and south the this modification at	modification e north elevation n of the foundation The spandrel beam I as per contract ary. modification to the n elevations of area			9/17/2013 RESPONSE: Contractor pro Concourse sp Proper lap spl rebar is transit	oposed modifica andrel beam wit ices shall be pro tioned from 7-1/	hin Area 5 is aco ovided where the 16 inch spacing	ceptable. beam to 6-1/2	
Г-0718	BGP-Spandrel	Beam Modifications in Are	a 6	Open	09/11/2013	09/21/2013	09/19/2013	Potentiall	

To: Turner Construction Compan Gary Krutsch



location is acceptable.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

636 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

mber	Subject			Required	red Answered	Impact	Procee	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Further to respond proposed change for location plane. Exhibit - B shown ecessary to the elevations due of foundation wall as well as typical RFI T - 627.1 sl	onse to RFI T-637 please find attached ges to the spandrel beams in pour Area 6 in see exhibit - A we the plan view of the modification e spandrel beam on the north and south to the revised reinforcement width of the due to encroachment of the CDSM beams all cross sections of the spandrel beam. The hows the extent of the modification to the on the north and south elevations of Area			Concourse sp Proper lap sp rebar is transi	oposed modifica andrel beam wit lices shall be pro tioned from 7-1/	tion to the Lower thin Area 6 is acc ovided where the 16 inch spacing t ied cross-section	eptable. beam o 6-1/2	
Please confirm	that this modification as outlined at this							



T-0721

Webcor/Obayashi Joint Venture

Page: Date:

Job:

11/05/2013

30100

637 of 1053 Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0719	BGP - Spandre	el Beam Modifications in A	rea 7	Open	09/16/2013	09/26/2013	09/19/2013	Potentially	y 🗍
From: Webcor Cons	truction LP	Michael Spillane	To: Turner Construction Compar	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Webcor Cons	truction LP	Michael Spillane							
REQUEST: Reference Documer Further to response proposed changes t for location plan see Exhibit - B shows th necessary to the spelevations due to the foundation wall due as well as typical crobeams. RFI T - 628.1 shows foundation wall on the 7. Please confirm that location is acceptable.	to RFI T-637 plea o the spandrel bea e exhibit - A e plan view of the andrel beam on the e revised reinforce to encroachment oss sections of the sthe extent of the ne north and south	modification e north and south ement width of the of the CDSM beams e revised spandrel modification to the n elevations of Area	SUGGESTION:		Concourse sp Proper lap spl rebar is transi construction of	per oposed modifica andrel beam wi lices shall be pro tioned from the	lification to the Lower mythin Area 7 is acceptable. e provided where the beam the spacing in the the modified spacing at each s-section.		
Г-0720	BGP - Electric	al Design Intent for Typical	Train Platform Drawings	Void	09/04/2013	09/14/2013	09/05/2013	Potentially	у 🗌
From: Webcor Cons	truction LP	Jackson Tukuafu	To: Turner Construction Compar	Gary Krutsch	Answered By	:Webcor Const	ruction LP Jack	son Tukuafu	
	struction - Below G 8/30/2012 include E1-2104, E1-2105 E1-2206, E1-2207 E1-3202, E1-3203 F&K, SCCI and W nber 04, 2013, SC any electrical con shown in the afor note "For Referer	Grade Package , but not limited to: , E1-2106, E1-2107, , E1-2210, E1-3101, , and E1-5201. As /OJV on CCI has not installed duits that may be ementioned nce Only." As	SUGGESTION:		ANSWER: As discussed	Accept Sug internally, F&K	gestion: to pursue FCR p	rocess.	



2. In Area 3 along Gridline 1, (2) haunch bas have been trimmed at the approximate intersection with the top mat

with no embedment. See sketch FC-4.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

638 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webco	or Construction LP	Marina Rosso	To: Turner Construction Co	mpan Gary Krutsch	Answered By	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
o-Author: Shimm	nick Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	rawing: 3/S 1-3001 pec: 03 20 00				The field conconfirmed as	ditions as descr	ibed in the RFI are	Э	
	rdination with the on-site conditions are to be con	3							
the size, spa reinforcing a	thwest comer of Area 3, icing and lap splices of ty re installed in-lieu ofbent ar A in sketch FC-1	pical horizontal							
of the same	nooked haunch horizonta size have been installed See Bar B in sketch FC-	with the required							
the haunch be trimmed at the (Bar C) haun observed con within the interest of the control of the	ersection of the North and pars along the North (Bar ne approximate intersecti nch bars. Reference sketo ndition is acceptable, but ersection of two haunche unless BarD already has	D) wall have been on with the West ch FC-2. The at future locations as the detail for BarE							
0722	BGP - Haunch	n Reinforcing Intersection	with Dewatering Wells	Closed	09/04/2013	09/04/2013	09/04/2013	Potentia	llv 🖂
	or Construction LP	Marina Rosso	To: Turner Construction Co				ociates, Inc Geor		y
	nick Construction Compa		Turner Construction Co	inpair Gary Ridison	7 illow 6. 6 il 2	•Adamson Ass	ociates, inc ocoi	ge Metzger	
REQUEST:		,,	SUGGESTION:		ANSWER:	Accent Suc	gestion:		
	rawing: 1/S1-3201		OOOOLO HON.		_		ibed in the RFI are	9	
Reference sp	pec: 03 20 00				confirmed as conflicts with	acceptable. Redewatering well	garding potential f s, refer to RFI T-0	uture	
	rdination with the on-site conditions are to be con				BGP respons	e.			
	along Gridline A, the hau ne approximate intersecti etch FC-3								



pour Area 8 as well as all levels of the encroachment into the foundation wall between CDSM piles 133 to 164 on

the north elevation and 618 to 650 on the south elevation

for Location Plan see exhibit - A

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

reinforcement due to encroaching CDSM Piles 146, 158, 161 and 632 are acceptable.

639 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

20100 Transhay Transit Contar Project

001111 1211	10112		30100 - Trans	sbay Trans	sit Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
haunch bars,	ations where dewatering , use detail for bar E in s , bars do not have 42" of	ketches FC-3 or FC-4							
T-0723	BGP - Couple	ers for Future Walls		Pending	09/05/2013	09/13/2013	09/05/2013	Potential	
From: Webco	or Construction LP	Marina Rosso	To: Turner Construction Compar	n Garv Krutsch	Answered By	:Adamson Asso	ciates. Inc. Geo		, _—
Co-Author: Shimm	ick Construction Compa	ny, Inc Filip Filipic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	·		,	3 3-	
REQUEST:	·		SUGGESTION:		ANSWER:	Accept Sug	nestion:		
See attached used as coup As discussed SCCI is propount walls in the NEL -35.67'. As shown on savers have tin cap will pr	et. 6 on S1-3001 If photo of the form saver plers for future walls. If in area 3 Mat Slab mee osing to installing all forr Mat slab flush with the top the attached photo, epo tin cap incorporated into rotect the rebar until the titute "tar" shown on Det	eting on 9/4/2013 msavers for future p of the Mat slab, to exy coated form coupler's body. This future construction,			Epoxy-coated of the mat slat locations whe may remain a lumber, which The form-save any wall wher such as the wacceptable fo warranty will reconstruction is	form savers shab as discussed or Detail 1/S1-90 ttached to the fix shall be chaireder/ lumber assere there is a keye ater tank walls. If any "future wall not cover corrosinterval without see approved by the same and the saver and the same and the saver a	all be installed a point site in the RF D51 is applicable ald observed 2x. It to the target elimbly is not applied joint or waters The arrangement where the form on protection for upplementary su	I for	
T-0724	BGP - CDSM	Soldier Pile Encroachment	Area 8	Closed	09/06/2013	09/16/2013	09/17/2013	Potential	ily 🗌
From: Webco	or Construction LP	Michael Spillane	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ocuments: Exhibits A - I				George Metzo 9/16/2013	ger			
	resses the impact of the (SP) on the north & sout				RESPONSE: The contracto	r proposed revis	ions to foundati	on wall	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

640 of 1053 11/05/2013 10:53 AM

Time: Job:

30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

Exhibit - B, & C depict the location and degree in which the SP are encroaching

WOJV proposal North elevation on gridline A: (See Exhibit - B & Exhibit - F) Between CDSM piles 145 to 147 and 157 to 159 WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 146 & 158, originally these were WR1 reinforcement area's #11@8"oc EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.1 (Exhibit -Ď).

Between CDSM piles 159 to 162-163, WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 161. This foundation wall area was originally a WR2 reinforcement area (#11@6"oc EF vertically) and would change to #11@5"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.3 option 2 (Exhibit -E).

WOJV proposal on the South elevation: (See Exhibit - B) Between CDSM piles 631 to 635, WOJV is proposing to decrease the specified 36" wall thickness to 33 5/8" to clear the encroaching SP 632. This foundation wall area was originally a WR2 reinforcement area (#11@6"oc EF vertically) and would change to #11@5"OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on SE stamped Detail A/Sk.3 option 2 (Exhibit -

In all other areas without CDSM pile encroachment issues the reinforcement will remain unchanged as per the Contract drawings.

See Exhibit- G, H & I shows details of transition between modified reinforcement to contract reinforcement.

These solutions if approved would be incorporated into the TG06 shop drawings.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

641 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact P	roce
Please conf	firm if these solutions woul	d be acceptable.							
T-0725	BGP- CDSM S	oldier Pile Cut-Off		Closed	09/06/2013	09/16/2013	09/18/2013	Potentially	
From: Webc	or Construction LP	Michael Spillane	To: Turner Construction Co	mpan Gary Krutsch	Answered By	rge Metzger			
final cut-off Currently Cl grade and fi will be responsively piles to cut-off elevate above the tr slab. See at If the shoring as currently membrane of the cutting these large the instance new projects street in Zon	A1-8710 (see attached) it's elevation for the CDSM wa DSM shoring piles extend uture TG12.1 Civil Site Woonsible for cutting off the Co othe final elevation. WOJV ations for the shoring piles rain box lid i.e. at the top of ttached sketch SK -1. In g piles are to be cut off be shown in detail 2/A-8710, could be compromised by the graph of the shoring wall is size. 181 Fremont street in the 3.	all shoring piles. up past the existing ork Trade Contractor cDSM wall shoring / propose that the be established at 3" f concrete protection low the train box lid the waterproofing the heat generated to be used to cut does not address s shared with further in Zone 4 and 101 1st	SUGGESTION:		Way. Obstruct the surface of (similar to the in this Public agreements to the depth entirely Train box is leflange and the finished surfathe top of the	les are within the tions either have be protected with Train Box Lid). Right of Way make the been else will need to be or the vertical fleft in place and the web are cut do ce. Leaving the	e City Public Rige to be at least 4 ith 1" thick steel Leaving the sold ay compromise stablished with the cut down below ange adjacent to the opposite (out own to 4' below the inside flange in pould facilitate supposite supposite flange in pould facilitate supposite supposite flange in pould facilitate supposite supposite flange in pould facilitate supposite flange in pould flange in pould facilitate supposite flange in pould facilitate supposite flange in pould facilitate supposite flange in pould flange i	below plates ier piles ene City. the 4' the side) lie blace to	
the top of th system isn't around 861 adjacent pro	ble that the shoring piles be train box lid to ensure the compromised and omits to CDSM piles which are in coperty and live traffic.	at the waterproofing he need to pothole							

T-0725.1 **BGP-CDSM Soldier Pile Cut-Off** From: Webcor Construction LP

Michael Spillane

To: Turner Construction Compan Gary Krutsch

Closed

09/30/2013 10/10/2013 10/14/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger



be infilled once the trestle pile has been removed. The contractor is to insure that the appropriate reinforcement lap splices are present between these

Please confirm if this option would be acceptable

concrete pours.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

642 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
cut-off elevation perimeter of the limited to, San off in a public of the train box so well as pedest passenger electone 1. Another item wis where the Complete in Zone This information future trade parand TG12.1 Completes in the provider of the period	on once provided will buckages TG07.2 Concrevil Sitework scopes of a tabular format a listeach individual CDSM	biles around the account but not ments for beam cut on of utilities entering res and ramps as and 201 B and on the west side of the taken into account pared with adjoining one 4 and 101 1st out used as part of the ete Superstructure work.	SUGGESTION:		cut-off George Metz, 10/11/2013 RESPONSE: Per Design R TJPA (ES) st construction i	ger eview Meeting o ated to reject th	BGP- CDSM Sold discussion on 10/0 e RFI as it is not be addressed with	09/2013,	
T-0726	BGP- Trestle	pile No 6 in comflict with be	am at Lower Concourse Level	Open	09/09/2013	09/19/2013	09/20/2013	Potentia	ily
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Webcor	Construction LP	Michael Spillane							
REQUEST: Following a review and discussion on the trestle pile location, it has been noted that trestle pile number 6 (see sketch attached) is in conflict with a beam (B45) at the lower concourse slab elevation between gridline 5-6, E-F. The contractor is proposing to blockout a section of slab as shown on the sketch, this blockout section would then			SUGGESTION:		• • • • • • • • • • • • • • • • • • • •	9	Please submit de	etailing	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

643 of 1053 11/05/2013

30100

Time: 10:53 AM

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0727	BGP - Area 8 C	Clear Cover to the Vertical I	Reinforcement on the Foundation Wall	Closed	09/09/2013	09/19/2013	09/18/2013	Potentially	 ,
From: Webcor 0	Construction LP	Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Webcor (Construction LP	Michael Spillane							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Further to response RFI shows the street the north & southan 6" of clear location plan see Exhibit - B & C foundation walls clear cover to the RFI T-0724 shor reinforcement share a 8. Please confirm waterproofing s	uments: Exhibits A - E onse to RFI T=0609 (se areas of foundation wa ith wall elevations which cover to the vertical re ee Exhibit - A depict the amount and s which the will have gr he vertical reinforcement ows the thinning of the vertical reinforcement over the thinning of the vertical reinforcement over the vertical r	Il in pour area 8, on a will have greater inforcement for location of the reater than 6" of ant. Wall with the revised alle encroachment in tween the reinforcement as				er between the veinforcement as	waterproofing sy presented in Ex		
T-0728	BGP - Column	Shear Reinforcement and	Bump-Out Pile Interference at GL G/15 in	n Closed	09/10/2013	09/20/2013	09/13/2013	Potentially	,
From: Webcor 0	Construction LP	Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Webcor/0	Obayashi Joint Venture	Bob Garcia							
11/27/12), S1-3 Shimmick sketo Per field measu gridlines F.7/15 reinforcement a pile, the adjustr	attached drawing S1-2 3005 (dated 08/3012) at ch SK-SCCI 316. urements, the 36" bump interferes with the nea at gridlines G/15. Due to ment of the shear head T-0703, cannot be ach	o-out trestle pile near brby column shear to the size of trestle locations, as	SUGGESTION:		shear heads a rotated 45 de The layout of that each of the extending to a deach 8' reinfor adjacent line	crestle pile interfeat Grid G/15, the grees about the heads in an arm he arms contain. 16' from the column shall be place roing module intradiating from the	erence with the ce heads layout she column center. In shall be modified the shall be modified to the shall be column is stagether the shall be column in	ed such s y at that each ggard.	
					The minimum	number of total	heads shall be	508.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Date

Date

644 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

Cost

30100 - Transbay Transit Center Project

Date

lumber	Subject			Status	Created	Required	Answered	Impact	Procee
-0729	BGP - Typical	Trim Steel Requirements fo	r Mat Slab per Field Coordination	Closed	09/10/2013	09/20/2013	09/11/2013	Potential	lly
From: Webcor Cor	nstruction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick C	onstruction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to att	ached drawing S1-3	009 and S1-3501.			George Metzg 9/11/2013	er			
As per field coordi	ination between SC	CI, Gerdau, WOJV			RESPONSE:				
	and TT on 09/09/2013, to help alleviate congestion in the			The measures	to reduce cong	estion described	d in the		
mat reinforcing, ar	nd in particular, con	gestion resulting			RFI are confir	med.	•		

1. Details 4 and 7 on Sheet S1-3009 in so far as they apply to trestle piles, pin piles, dewatering wells and piezometric pipes can be relaxed in terms of additional bars. For an even number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars)/2. For an odd number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars +1)/2.

from add bars due to openings and penetrations, please

confirm the following items are acceptable:

- 2. Detail 1 on Sheet S1-3501, which applies to sinks, can be relaxed in terms of additional bars. For an even number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars)/2. For an odd number of bars interrupted (typical bars and add bars) the number of bars added on either side of the opening can be (number of interrupted bars +1)/2. The minimum requirement of 2 bars on either side of the opening need not apply.
- 3. The number of bars and maintenance of clear spacing will take precedence over 8" or 4" module spacing as to minimize the number of potential bar interruptions (and minimize resulting add bars). Any bar may be displaced to avoid conflict. The maximum center-to-center spacing of any two adjacent bars may be as large as 16". Clear spacing of 1 bar diameter shall be maintained between bars where bar relocation necessarily reduces spacing in the vicinity of relocation. Where bar relocation affects a lap splice, noncontact lap splices will be allowed up to 6" for #10 and #11 bars. This remedy shall apply in particular when seeking to avoid interruptions at small penetrations such as risers, vents, sinks and conduits.
- 4. Clear spacing of 1db minimum shall be maintained in all mat reinforcing except for contact lap splices.



2023 and E1-2022.

Per Detail 7 on plan sheet E1-6001, the sump pump

conduits for the below grade package are to be terminated 12" above the mat slab directly adjacent to the future train

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

disconnect and receptacle on nearest column for zones 02 and 03. Please terminate conduit 12" above

mat slab at nearest face of rectangular column

645 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
as catch basins, s and bridge piers w	sump pits, elevator possible vill be considered or coordination with The	t other locations such oits, shoring bracing n a case-by-case nornton Tomasetti's							
0720	BCD Evtend	ad Time for Concrete Police	of Dratestian Clab Miss	Classed	00/40/2042	00/20/2042	00/20/2042	Detential	
-0730 From: Webcor Cor		ed Time for Concrete Delive Jackson Tukuafu	To: Turner Construction Com	Closed	09/10/2013 Answered By	09/20/2013	09/20/2013 ociates, Inc. Georg	Potential	у
Co-Author: Shimmick C			10. Turner Construction Com	pair Gary Ridison	Allowered by	-Additison Ass	ociates, inc Ocor	ge Metzger	
REQUEST:		.,,	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
		specification section	coccionen.		_	otable to extend	the concrete deli	very	
discharge concret before the drum h comes first" Ho performed the set the onset of hydra	as revolved 300 revolver, Cemex the output time test to evaluation occurs for mix	requires mixed within 1-1/2 hours or rolutions, whichever concrete supplier has te the time at which #1557217 (Protection letter dated August					onsible for providi ets the specificati		
is acceptable to ex	ed test result by Cer xtend the concrete 1/2 hours as specifi								
-0731	BGP - Condui	t Termination Location for \$	Sump Pumps Between Grid Lines	s 1 & 12 - Closed	09/12/2013	09/22/2013	09/23/2013	Potential	у 🗌
From: Webcor Cor	nstruction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick C	Construction Compa	ny, Inc Chris Williams							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to dra	awing E1-6001 A1-	2102 A1-2103 E1-			Por dotail 7 or	shoot E1 600	I note B reads to	mount	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

646 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

				J		,			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
platform wall.									
and moving e location for the there is no tra the conduit si Please note to in Area 3, the of each sump	rain platform wall beginn east, please provide the east, please provide the ne sumps installed west ain platform. Please included be set away from that for the two sumps the conduits were placed repopening to avoid the full otal sumps west of grid loced.	conduit termination of grid line 12 where lude a set dimension the sump. at have been poured bughly 9' to the north ture train tracks.							
T-0732	SSS - Train B	ox Column Material Specif	fication	Closed	09/13/2013	09/23/2013	09/25/2013	Potential	ly 🗌
From: Webco	r Construction LP	Robert Kjome	To: Turner Construct	tion Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Di	rawings: S-0007						Frequency P tes		
Skanskas fat	of General notes SS-9 Foricator, Thompson Meta on the material grade spendumns.	al Fab, is requesting			not requirea.	esting at Frequ	ency H is accept	adie.	
	w and update the followir								
	ASTM A709 H.P.S. 70V material to have a Char								

Test with a Minimum of 25FT Lbs. @ -10 degrees. ASTM A673 Frequency "P", ASTM A6 supplementary

09/13/2013

requirement S5.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 647 of 1053 11/05/2013 10:53 AM

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference D	rawings: S-0007				No update red	quired.			
fabricator, Th	of General notes drawing nompson Metal Fab, is re ial grade specification for	questing clarification							
Please review their material	w and update the followin l order.	g if needed prior to							
All Transfer E	ASTM A572 GR 50 Zone Beam Material to have a with a Minimum of 20FT Frequency "P", ASTM A6 S5.	Charpy V Notch Lbs. @ 70 degree F.							
Or "AS Noted	d"								
@ -10 Deg. F	ency "P", ASTM A6 Supp	·							
-0734	SSS - Transfe	r Girder Elevations		Closed	09/13/2013	09/23/2013	09/25/2013	Potential	lv 🖂
	or Construction LP	Robert Kjome	To: Turner Construction Comp				ociates, Inc Geor		,
Co-Author:		•	Tumor Constitution Comp	Jan Gary Francisco		, , , , , , , , , , , , , , , , , , , ,		goo. <u>_</u> go.	
REQUEST:			SUGGESTION:		ANSWER:	Account Coom	mostion.		
	ocuments: S1-2303 thru	S1-2307,	SUGGESTION:			Accept Sug er elevations ma	y be rounded to t	he	
thru S1-2307	Elevations for transfer girders shown on drawings S1-2303 thru S1-2307 are in decimal feet. Once converted to feet/ inches they become 1/16th values.				nourost 1/0 .				
Please verify nearest 1/8th	r if the elevations should l n of an inch or kept as co	be rounded up to the nverted.							
See attached locations	d specific conversions for	each transfer girder							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

648 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

nuts from backing out.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0735	SSS -Clarificat	ion of Lateral Bracing Me	mbers	Closed	09/16/2013	09/26/2013	09/25/2013	Potentia	ily
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please ic MEMBER B "REGA LATERA	ce Drawing: S-0007 dentify what are considered "LRS" as called out in the GENEARDLESS OF THICKNESS AL SYSTEM MEMBERS (INCIS, ETC.): 20FT-LB @ 70 DEG	ERAL NOTES SS-9, LL TRUSSES, LUDING COLUMNS,			seismic framir seismic frame SFRS in the d elevations". Si elevations ". As called out Steel - Additio 2.1.A.1, "Heav testing in accor requirements testing require (shapes) per t	ng. Following many: Members designed rawings, members designed repeated in Specification and Seismic Revy sections shallow redarce with Alsof SS-9B need rements can be like AISC 341 re	r to members of tembers constitute gnated as SLRS ers in "seismic fro locate from locate fro locate from loc	e the or ame frame ural ion i CVN re, d CVN ections oted in	
Г-0736	SSS - PJP Wel	d Designation at Type 2 D	rag Connection	Closed	09/16/2013	09/26/2013	09/25/2013	Potentia	lly
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
Reference On detail at the 2" additional	ST: the Drawing: 2/S1-5017 the Sketch: SK1 I 2/S1-5017 for the Type 2 Dr. plates the 1/2" PJP weld is the prep required to achieve a 1- tent (IE; 5/8" prep).	ne actual prep or is	SUGGESTION:		ANSWER: The 1/2" is ac be (1/2"-1/8")=		gestion: nsion, effective w	eld will	
Г-0737	SSS - Type 2 D	Prag Connection Pin Clear	ance	Closed	10/07/2013	10/17/2013	10/09/2013	Potentia	lly 🗀
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	- 🗀
Co-Author:			·	•				- 3	
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
1) The D	rag Connection Details on dra to show double nuts securing				 It is confirm It is accepta 	ed that double able to add a co	nuts are required of the pin thru the to the total thrust of the total thrust of the total thrust of the total thrust of the thr	hreads	



4/S1-3260.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

649 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

RESPONSE:

JOINI VEN	TURE		30100 - 1	ransbay Irans	it Center	Project	•		
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
5017, is it ac	he Drag Connection Deta cceptable to add a cotter p fter the double nut to furth g out?	oin thru the threads			Table 15-8 is	acceptable, but M & IIP drag co	thread area per A please note that unnections is 7" di	the pin	
Connections Weights of F	proposes to size the pins s per AISC Table 15-8, "D Recessed-Pin Nut", i.e. pr ead for a 6" diameter pin.	imensions and ovide a 4 ½"			If the Contraction the RFI about		e cotter pins as de at no cost to the		
0738	SSS - Drag Co	nnection to Bus Deck Cast	ings	Closed	09/17/2013	09/27/2013	10/01/2013	Potentia	lly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The spacing	Prawings: S1-5016 and S1 of the shear plates on the s in conjunction with the the	e bus deck cast				Γ take no except	tion with standard	lizing	
of each conr 5017 for refe	necting beam. See 1c/S1- erence.	5016 and 1b/S1-			fabricated, so cast node pac	the proposed cl width. The pad	re in the process hange shall not a lon the cast node	ffect the has	
pins and/or t	void customizing the cast the bolt lengths, our fabric oses to standardize the s	ator, Oregon Iron				h to accommoda he contract doc	ate the connection uments.	n plates	
node shear of the web re	connection plates and cust einforcing plates. See the & S1-5017 depicting the p	stomize the thickness attached mark-ups			thicknesses d (near Grid 9.9	o not include the	the tabulated place ones for W40 x3 and W40x392 (ne	327	
Please confi	irm that this proposal is a	cceptable.			20.1).				
0739	BGP - Column	C16 and Knock-Out Corbe	l at West Throat	Closed	09/17/2013	09/27/2013	09/18/2013	Potentia	llv 🖂
	or Construction LP	Jackson Tukuafu	To: Turner Construction				ociates, Inc Geor		· 🗀
o-Author: Shimn	nick Construction Compa	ny, Inc Ben Gordon		. ,	•		,	9	
REQUEST:	·		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	to attached drawing deta	il 1/S1-2022 and			George Metzo		3		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 650 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Cost

30100 - Transbay Transit Center Project

Date

lumber	Subject	Status	Created	Required	Answered	Impact	Proceed
_							

Per previous discussion with TT field engineer, in the West throat shearwalls which contain integrated Cl6 columns and vertical corbels to restrain the knock-out walls, only the Cl6 column ties are required to penetrate the mat at the designated spacing for a distance of at least 12" below the lowest top mat elevation. The ties associated with the corbel are not required to penetrate the mat slab.

This RFI confirms that the column and corbel ties, as placed, are acceptable based on the observation by the TT field engineer.

Column C16 is a boundary element in the West Throat Shearwall. Integral to the column (and the wall) is a vertical corbel that restrains the knock-out wall. Ties are indicated for both the column and the corbel. Only the column ties are required to penetrate the mat at the designated spacing for a distance of at least 12¿ below the lowest top mat elevation. The ties associated with the vertical corbel are not.

Date

Date

As the corbel ties are not required below the mat, the corbel ties observed in the field are necessarily confirmed as acceptable.

The column ties, which are required to penetrate the mat, shall be placed per the contract drawings. This RFI response does NOT confirm the placement or spacing of the column ties observed in the field.

Answered By: Adamson Associates, Inc George Metzger

T-0740	BGP - Mat Slab Rebar	Alternate to Grade	75 #11 in Area 6 & 7

Closed

09/27/2013

09/26/2013

Potentially

From: Webcor Construction LP

Jackson Tukuafu

To: Turner Construction Compan Gary Krutsch

Co-Author: Shimmick Construction Company, Inc Ben Gordon

SUGGESTION:

REQUEST:

Due to mill shortages of grade 75 #10 reinforcing please confirm that at no cost to the Owner, the implementation of grade 75 #11 reinforcing where required will be acceptable for use within the typical mat reinforcing installed at 8" O.C.

The use of the grade 75 # 11 rebar is expected to supplement the typical #1 0 bar in the following locations, 3rd and 4th layer of Area 6. and 4th layer of Area 7.

ANSWER: Accept Suggestion:

George Metzger 9/25/2013 RESPONSE:

09/17/2013

GR75 #11 bars as proposed in and limited to the scope of the RFI is acceptable.

Note that the lap splice length for #11 GR75 bars to #11 GR75 bars will increase over than of the previous #10 GR75 to #10 GR75 bars. Other combinations of spliced bars will be governed by the larger of LTE or the larger (or stronger) bar and the tension lap splice length of the smaller (or weaker) bar per Note 4 of Detail 1/S1-3001.

Clear documentation of these bars shall be made available from time of delivery. Submit as-built or marked-up submittal that reflects these bars for record.



Exhibit - B, & C depict the location and degree in which

WOJV proposal North elevation on gridline A: (See Exhibit - B) Between CDSM piles 167 to 168 WOJV is proposing to decrease the specified 36" wall thickness to 34" to clear the encroaching Steel plate attached to SP 167 & 168, originally this was a WR1 reinforcement area #11@8" oc EF vertically and would change to #11@6" OC, the reduction in foundation wall thickness would be

compensated by reducing the rebar spacing predicated on

WOJV proposal on the South elevation: (See Exhibit - B) Between CDSM piles 611-612 to 613-614, WOJV is proposing to decrease the specified 36" wall thickness to

the SP are encroaching

Detail A/Sk.1 (Exhibit - D).

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

651 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0741	BGP - Pile Loc	ation Discrepancy at GL E	34.5 in Zone 4	Closed	09/17/2013	09/27/2013	09/26/2013	Potentia	lly
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author: Shir	nmick Construction Compar	ny, Inc Ben Gordon							
REQUES ⁻	Г:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The bridge shown in S shown alo depicts the at gridline Bridge dra aforement piles on gr	erence attached drawing S1 e pier pile (4'-0" diameter) no SI-2057 to be offset from the gridline 34.7. In addition, e pile being located within the E/34.5. However, as per Enwings and as-built conditionationed bridge pile is installed ridline 34.7. Infirm the as-built location of e and the sump pit detail shoupplicable.	ear grid E/34.5 is typical row of piles detail 1/SI-3007 ee pit that is located BBI's Beale Street is, the in line with the other				already been a	ddressed in pasi RFI T-0264.7 BS		
Г-0742	BGP- CDSM S	Soldier Pile Encroachment	Area 9	Closed	09/20/2013	09/30/2013	09/26/2013	Potentia	lly 🗀
From: Web	ocor Construction LP	Michael Spillane	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Author:									
REQUES ⁻	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	Documents: Exhibits A - G				George Metzg	_			
soldier pile in mat slal encroachr	addresses the impact of the es (SP) and steel plate on the b pour Area 9 as well as all I ment into the foundation wall to 188 on the north elevation	e north & south wall levels of the between CDSM			reinforcement added steel pl reducing the s	due to encroad ates) in Area 9 pacing of embe	sions to foundation of the control o	s (and Note that rtical	

impact the installation of embedded column cross-ties which are #5 per construction drawings.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

652 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

34" to clear the encroaching SP 612. This foundation wall area was originally a embedment column with reinforcement in this area was a double layer of #11@6" OC EF vertically and would change to #11@5" OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on Detail A/Sk.4 option1 (Exhibit -E). In all other areas without CDSM pile encroachment issues the reinforcement will remain unchanged as per the Contract drawings.

See Exhibit - F & G showing details of transition between modified reinforcement to contract reinforcement.

These solutions if approved would be incorporated into the TG06 shop drawings.

Please confirm if these solutions would be acceptable.

T-0742.1 BGP - U-Bar at CDSM Encroachment Near GL 16.9/J in Area 9

Jackson Tukuafu

SUGGESTION:

Closed

10/27/2013

10/23/2013

Potentially

Co-Author: Shimmick Construction Company, Inc Ben Gordon

REQUEST:

T-0743

From: Webcor Construction LP

Please refer to drawing S1-2024, S1-3302 and response to RFI T-0742 - CDSM Soldier Pile Encroachment Area 9.

Per the response to RFI T-0742, the spacing of the verticals in the C21 embedded column at Gridlines 16.9/J was changed from 6" OC to 5" OC due to the CDSM soldier pile encroachment. As a result, there is an odd number (19) of verticals per laver which would leave one row of verticals to not be straddled by a U-bar. Gerdau proposes to widen the final U-bar in the embedded column and straddle 3 rows of vertical bars as depicted in the attached Gerdau sketch SK-97.

Please confirm it is accceptable to proceed as shown in SK-97.

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

ANSWER:

10/17/2013

Accept Suggestion:

George Metzger 10/22/2013 RESPONSE:

All exterior wall bars at their penetration into the mat shall have lateral support perpendicular to the edge of the mat. In Gerdau Sketch SK-97, provide a single leg tie with a 180 hook on the odd exterior vertical wall bar. Alternatively, normal u-shaped ties can be placed either side of an odd bar and a 180 hook added to the odd bar. The embedment length of the single leg tie shall be that of the u-shaped bars.



Exhibit - B) between CDSM pile 200-201 to 206, WOJV is proposing to decrease the specified 36" wall thickness to 34" to clear the encroaching SP 206. This foundation wall area was originally a WR2 reinforcement area (#11@6" OC EF vertically) and would change to #11@5" OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated

WOJV proposal on the South elevation: (See Exhibit - B) Between CDSM piles 574 to 576 and 587 to 588 - 589 WOJV is proposing to decrease the specified 36" wall thickness to 34" to clear the encroaching SP 575 &588, originally these were WR1 reinforcement areas #11@8" OC EF vertically and would change to #11@6" OC, the reduction in foundation wall thickness would be

compensated by reducing the rebar spacing predicated on

Between CDSM piles 588-589 to 591, WOJV is proposing to decrease the specified 36" wall thickness to 34" to clear the encroaching SP 589 & 590. This foundation wall area was originally a embedment column with reinforcement in this area was a double layer of #11@6"oc EF vertically and would change to #11@5" OC this reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on Detail A/Sk.4

In all other areas without CDSM pile encroachment issues the reinforcement will remain unchanged as per the

See Exhibit - G, H & I showing details of transition between modified reinforcement to contract reinforcement. These solutions if approved would be incorporated into

on Detail A/Sk.3 option 2 (Exhibit -E).

Detail A/Sk.1 (Exhibit - D).

option1 (Exhibit -F).

Contract drawings.

the TG06 shop drawings.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 653 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

mber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
From: Webcor	Construction LP	Michael Spillane	To: Turner Construction Cor	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:	-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Do	Reference Documents: Exhibits A - I			George Metzo	jer	- Ш			
This RFI addr	Reference Documents: Exhibits A - I This RFI addresses the impact of the encroaching CDSM				9/25/2013 RESPONSE:				
	SP) on the north & south					r nronosed revis	sions to foundatio	n wall	
, ,	as well as all levels of th						hing CDSM Piles		
•	wall between CDSM pi						educing the space		
the north eleva	ation and 571 to 595 on	the south elevation			embedded column vertical reinforcement from 6 inch				
for Location F	for Location Plan see exhibit - A			to 5 inch may negatively impact the installation of					
Exhibit - B & 0	Exhibit - B & C depict the location and degree in which the				embedded co	lumn cross-ties	which are #5 per		
	SP are encroaching				construction of	rawings.			
WOJV propos	WOJV proposal North elevation on gridline A: (See								



T-0745

From: Webcor Construction LP

BGP - Construction Joint Layout Modifications at Area 6

Jackson Tukuafu

Webcor/Obayashi Joint Venture

Page: Date:

Job:

654 of 1053 11/05/2013 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Prod	ce
Please confir	m if these solutions wou	ıld be acceptable.							
T-0744			Corbel and Haunch at SW Corne		09/17/2013	09/27/2013	09/18/2013	Potentially	_
	Construction LP ck Construction Compa	Jackson Tukuafu	To: Turner Construction Cor	mpan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geo	rge Metzger	
REQUEST:	on concuración compa	ny, me Ben Gerden	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
drawing from Sketch SK-RI Per field coor confirm it is a 2/S1- 3204 wi The pilaster is tied with 13 Ties shall be The tie perp developed a r thehaunch The tie para the pilaster Ealin lieu of two combine the tobend at Bar A. The extent of the top of the resume The horizon matching hoo	dination with TT field en cceptable to omit the pil ithin the body of the hau West corner bar (Bar A 5 hooks in both direction at #4 bars spaced at 4" of endicular to the South with minimum of 14" into the lellel to the South wall sha ast corner bar (Bar B in a individual ties, it is also ies into a single shape with the ties shall be from the haunch, after which Deital haunch bars shall terk tal formsaver bars for the corner bars for the 6" O.C. on the inside a	gineer, please laster ties of detail lanch provided that: in attached sketch) ns l.c. vall shall be South wall beyond all be hooked around attached sketch) o acceptable to with a 90 degree the top of the mat to tail 2/S1-3204 will rminate with a spliced e future train tunnel					ribed in the RFI i the haunch.	S	

To: Turner Construction Compan Gary Krutsch

Closed

09/18/2013

09/28/2013

Answered By: Adamson Associates, Inc George Metzger

09/30/2013

Potentially



built-up girder size at the Roof Park Level between column lines E.6 and D.4 (see CD RFI-015 SK1 attachment). It

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

655 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
:o-Author: Shim	nmick Construction Compar	ny, Inc Filip Filipic							
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached photos of the construction joint at mat slab area 6 South, near grid line 8.5, and CJ layout drawings. Due to congestion and access SCCI would like to shift the walls and concourse joints at this location 14.5" to the East. This adjustment does not affect any other structure's elements and complies with the CJ parameters outlined in the contract specifications.				George Metzger 9/27/2013 RESPONSE: Per conversation between TT & Shimmick, it clarified that the proposed joint modification i the south end where the original N-S running the mat and the Lower Concourse will turn at near the toe of the chamfer so that the joint w					
Please cor acceptable	nfirm modifiying the construe.	ction joint layout is					on wall. The 14.5" the south end po		
0746	BGP - Plumbir	ng Clarifications to 2" Vent	and 3" San Connection in Area 4	Open	09/18/2013	09/28/2013	09/20/2013	Potential	ly
From: Web	ocor Construction LP	Jackson Tukuafu	To: Webcor Construction LP	Jackson Tukuafu	Answered By	Adamson Ass	ociates, Inc Georg	ge Metzger	
o-Author: Shim	nmick Construction Compar	ny, Inc Filip Filipic							
REQUEST	Г:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
(dated 04/2 On 09/10/2 about the i	er to attached plumbing dra $26/2013$) and IR Report 163 2013 , the SFDBI inspector ϵ installation of the 2" vent an	expressed concern			for the future F	nd 2" vent conr Phase 2 under o	nections serve as car deluge system	control	
Please cor	ab area 4 - See IR 1633. nfirm the 2" vent and 3" con d per drawing PSK-2022	nection pipes are to			to detail 3/P1- primer connec	6001 (with trap	to sprinkler drains below floor, no tra r, the trap primer r).		
0747	SSS - BU Gird	er Size at Roof GL 28		Closed	09/20/2013	09/30/2013	09/25/2013	Potential	ly
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
o-Author:									
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Drawing: S1-4114 Sketch: CD RFI 015 SK1 a	ttached.			GL28 Roof Be accurate.	eam size provide	ed in the Revit mo	del is	
Deference	dotail A/C1 4114 which doe	a not indicated the							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

656 of 1053 11/05/2013

Date: Time:

10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
intended to provided on	m the latest Revit model the BU66x30x1.5x2.25. Planthe Revit model is accurate be used at this location.	ease confirm the size tte or advise the							
T-0748	SSS - Type TT	T Threadbar Anchor Bolt E	mbedment	Closed	09/20/2013	09/30/2013	09/23/2013	Potential	ly 🗌
From: Webc	cor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Turner Constru	uction Comr Stac	y Wilson	
Co-Author:									
REQUEST:	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference [Drawings: S1-5051						m Lee Ishida of		
depths for T 8" and 2'-8" type TTT th the embedn	S1-5051 which indicates the Type T and TT threadbar and T, respectively, while the erroreadbar anchors is to be 1 ment depth for Type TTT that as indicated on 4/S1-505	nchors are to be 3'- nbedment depth for 6'-0". Please verify nreadbar anchors is			feet.	asetti confirmin	g the embed leng	gtn is 16	
T-0749	SSS - Anchor	Bolt Finish Requirement		Closed	09/20/2013	09/30/2013	09/25/2013	Potential	ly 🗌
From: Webc	cor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:	1		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Drawing: S1-5051, S-0007 Specification: 05 10 00 3.2						S1-5051 are to be ered by fireproofing		
on 7/S1-505 either ASTM does not ex all bars to b Specificatio S-0007 call	is made to the base plate a 51 indicating anchor rods a M A615 or A722 standards plicitly state finish require e uncoated. Within the IFO on Section 05 10 00 3.2.P.6 for miscellaneous metals dipped galvanized.	are to conform to . While ASTM A615 ments, A722 calls for C documents, 6 and Note SS-10 on							
	firm the finish requirement plate anchor rod schedule								



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

657 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Г-0750	SSS - Moment	Frame Column Field Spli	ce at Bus Level	Open	09/20/2013	09/30/2013	10/02/2013	Potentiall	у
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	awing: S1-4201, S1-420 etch: CD RFI 022 SK1 &					or's proposal to e	extend the thicker eptable.	ned web	
moment frame Level. Per det column web p 48" deep mon acceptable at 1. The web pla location, elimi	made to drawing 1/S1-4/e column field splice above tails 1/S1-4201 and 1/S1/elate is required at the Branch columns. Please verthis field splice: ate can be extended 14/9 nating a shop web splice. O RFI 022 SK1 & SK2 for	ove the Bus Deck 1-4203, a thickened us Deck Level in the erify the following is ' to the field splice e in the column.				d web plate shall 202 as stated in	l be tapered simil the RFI.	ar to	
	ned column web plate wi ail 8/S1-4202 at the field SSS - Roof Le	•	n Field Splice at GL 28	Closed	09/20/2013	09/30/2013	09/26/2013	Potentiall	
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor		,
Co-Author:			·	•					
Reference Sk Reference is r 5/S1-4203 ind moment conn 0" typical field column grid D	awing: S1-4114 ,S1-420 etch: Reference CD RFI made to drawing 1A/S1-dicating the SMRF columection at the Roof Level I splice dimension noted 44 and E.6 is from the to " column section welded	1 023 SK1 & SK2 4114 and detail on to beam flange . Please verify the 8'- l on A/S1-4114 at p of the roof girder,	SUGGESTION:		the bottom of		nsion is measure providing an 8 ft		
Г-0752	SSS - Anchor	Bolt Coupler Location		Closed	09/20/2013	09/30/2013	09/25/2013	Potentiall	у 🗌
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

658 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

			9		,			
umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Reference Drawing: S1-5051						vill be centered ab		
Reference is made to detail 6/S1-505 Threadbar Anchors. Please confirm to centered about the bottom of the more indicated.	ne couplers will be			23.00 0. 0.0				
0752.1 SSS - Anchor	Bolt Coupler Location		Closed	10/21/2013	10/31/2013	10/22/2013	Potential	ly 🗌
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan Gal	ry Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please confirm it is acceptable to locathe Type TT Anchor system 12-3/4" a moment frame beam joint to allow for temporary 1/4" alignment plate to aid and alignment of the anchor rods dur pour.	bove the column and the installation of a with the installation			system may be and moment to	at the couplers for moved to 12-	or Type TT ancho 3/4" above the co	lumn	
0753 BGP - East Bu	ılkhead and Catch Basin Co	onflict with Mat Slab Construction Joint i	n Closed	09/20/2013	09/30/2013	10/02/2013	Potential	ly 🗍
From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan Gal	ry Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
co-Author: Shimmick Construction Compa	ny, Inc Filip Filipic							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to attached photo of as-l SKA-2821 and excerpt from the CJ st drawing CJ-04 (TG0600-030).				George Metzg 9/28/2013 RESPONSE:	ger	atch Basin location	n	
SCCI had to shift the construction join areas 6 and 7 Eastward due to the in micropiles and trestle piles. This shif bulkhead against the catch basin nea	terference with the tin the CJ puts the			approximately	24" to the Wes	to the west accord	.850).	
Please confirm it is acceptable to shit location approx. 24-inches in either early of the bulkhead/CJ.								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

659 of 1053

11/05/2013 10:53 AM

30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0754	BGP - Area 9	Clear Cover to the Vertical I	Reinforcement on the Foundation Wall	Closed	10/10/2013	10/20/2013	10/18/2013	Potentiall	у
From: Webcor Cons	struction LP	Michael Spillane	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Further to response of foundation wall/e the north & south w than 6" of clear covolocation plan see e Exhibit - B & C dep foundation walls where the second	embedded column vall elevations which rer to the vertical reach xhibit - A sict the amount and	ch will have greater einforcement for discontinuous discon				er between the veinforcement as	waterproofing sys presented in Exh		
clear cover to the v									
		e wall with the revised pile encroachment in							
Please confirm that waterproofing system outlined at these lo	em and the vertical cations is accepta	l reinforcement as ble.	Reinforcement on the Foundation Wall	Clasad	10/11/2013	10/21/2013	10/18/2013	Potentiall	
From: Webcor Cons		Michael Spillane	To: Turner Construction Compan Ga				ociates, Inc Geo		у
Co-Author:		·		,	·		,	3 3-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
of foundation wall/e the north & south w than 6" of clear cov location plan see e Exhibit - B & C dep foundation walls w clear cover to the v RFI T - 743 shows	embedded column vall elevations which to the vertical reachibit - A plot the amount and inch the will have greatical reinforcement the thinning of the	einforcement for d location of the greater than 6" of				ger er between the v sinforcement as	waterproofing sys presented in Ext		
Please confirm that waterproofing system outlined at these lo	em and the vertical	reinforcement as							



1) Please supply the location, length, and elevation for

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

660 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0756	BGP - Structu	ral Slurry Primer in Mat Sla	b	Closed	09/24/2013	10/04/2013	09/25/2013	Potentiall	ly 🗌
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shimmick	Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Foley (CEMEX) With limited site a larger than no	the attached letter, aut QC), dated Septembe access, many Mat SI access, many Mat SI control and SCC in pro-	r 17, 2013. ab pours will require ne. To ensure that			the mat slab,	that is not the ap	proved mix desi ne primer, shall ı		
slick-line with a the specified de miniscule perce	s plugged, SCCI is pro structural slurry that w sign strength for the N ntage of this primer wi his percentage would me.	ill reach and exceed lat Slab. A Il be deposited into			placed in the	mat slab.			
Please confirm priming is accep	the proposed SCCI me otable.	ethod of slick-line							
T-0757	SSS - HSS Vei	tical Post Size at Roof Parl	c Level	Closed	09/25/2013	10/05/2013	09/26/2013	Potentiall	ly
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Draw	vings: 2/S1-7109, A&C	:/S1-7136					nat were added a		
vertical posts we provide the miss	and E.6, west of grid ere added per ASI No. sing HSS vertical post ons above the Roof Pa 1 & SK2).	0105. Please sizes at the			7109 and deta		-7136 have beer	1	
T-0758	SSS - W12 Bea	am Information at Roof Lev	el GL E.1	Closed	09/25/2013	10/05/2013	10/11/2013	Potentiall	ly 🗌
From: Webcor C	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
W12x14 beam s	ade to Drawing S1-260 stubs near grid line E, e following W12x14 be RFI 027 SK1:	east of grid line 1.			not required.	ms identified in t	ed in the RFI ske		



concrete as appears to be shown in detail 5B/S1-5051.

2) For the 26" by 30" type 2 base plates as shown in 2/S1-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

plate is only 26" wide, the shear key may be located 10" from center of column (instead of 10- 3/4" shown

on 3/S1-5051) to fit within the width of the 26" wide

661 of 1053 11/05/2013

30100

Time: 10:53 AM Job:

JOINT VE	NIORE		30100 - Tra	ansbay irans	sit Center	Project			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
2) Please v noted betw 3) For the s	eams between grids E.2 an verify the member sizes for een grids D & E.2 are to be same areas indicated in itel ocations, lengths, and elevi	the three areas W12x14. m #2, please supply			W/O Note: Pi	rovide credit for o	deleted beams.		
-0759	SSS - Beam C	amber Dimensions at Ground I	_evel	Closed	09/25/2013	10/05/2013	09/27/2013	Potentiall	у 🗀
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y: Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	is made to Drawings S1-23 F.9 and G.13. Please verify				For the W30x W24x76 bear	:90 beam near g ns between grids	rid F.9 and the the F/G & 13/14, th		
have a 3 ¼	indicates the W30x90 bea camber (reference CD RI amber should be ¾" in lieu indicated.	FI 028 SK1). Please			cambers sna	I be 3/4" and not	3 1/4".		
grids F/G 8 CD RFI 02	indicates that three W24x 13/14 are to have a 3 ½" 8 SK 2). Please verify the of the 3 ½" dimension indicates	camber (reference cambers should be							
-0760	SSS - Column	Base Plate Detail Clarification		Closed	09/25/2013	10/05/2013	10/10/2013	Potentiall	y 🗀
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered B	:Adamson Asso	ciates, Inc Geor	rge Metzger	
Co-Author:							·		
REQUEST	: :		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ify the following in reference he sketches attached (SD I					hole in the shear shear key (5" fro	key is to be cer		
please con	2 column base plates at the firm the grout hole indicate late in order to place it 5" by	d is to be 7" below			3/S1-5051. L	on of the shear ke ocation of the sh	ear key is contro	olled by	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 662 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
10" from c	se confirm the shear key pla enter of column to fit within lown on SK3 base plates.				base plate.				
wide do sin	own on one base plates.								
-0761	SSS - Beam Si	ze Clarification - Roof Par	k Level GL	Closed	09/25/2013	10/05/2013	10/02/2013	Potentiall	у 🗌
From: Web	cor Construction LP	Robert Kjome	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	erence S1-2603 which calls s "BU-44x230" (see CD RFI					n the area betwe ase refer to ASI	een 7.8 & 9 has b 106.	een	
	oply the plate sizes for this I								
-0762	BGP - Haunch	Bar Grade and Size Increa	ase	Closed	09/25/2013	10/05/2013	09/30/2013	Potentiall	у 🗌
From: Web	cor Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shim	nmick Construction Compar	ny, Inc Ben Gordon							
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refe section 03	er to attached drawing S1-3 2000.	201 and spec			George Metzg 9/30/2013	ger	- Ш		
"haunch" is drawing S´ SCCI prop	Grade 60 concrete reinforces s shown on the typical found 1-3201. The trade group pages the use of a Grade 75 are Grade 60 #10 "haunch."	dation wall section ckage contractor			typical founda	tion wall section th #10 GR75 rei	rcing shown on th n, 1/S1-3201, can nforcing with the	e be	
	nfirm it is acceptable to use	Grade 75, #10 or					the detailing an		
	in lieu of the specified conci					·	n that headed bar		
					embedment ir	nto the mat, either is interrupted by	n that the straight er vertical or incli y a dewatering we	ned,	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

663 of 1053 11/05/2013

Date: Time:

10:53 AM Job: 30100

lumber	<u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
					#11 bars of ei #10 haunch re		not be used in lie	u of	
-0763			rimeter	Closed	09/26/2013	10/06/2013	10/02/2013	Potential	ly
	Construction LP	Robert Kjome	To: Turner Construct	ion Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author: REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	maatian.		
Reference de at the roof alc documents, th W24x55, caus M8x22.6) to fo	tail 5/S1-4205 showing ong column lines B and in ne beam size was increasing the MC10x41.1 brace out the beam flange. Se for reference and advisit.	H. In the IFC ased from W21x55 to ice (increased from e CD RFI 020 SK 1 &	SUGGESTION.		A portion of th of the web (up		om flange and a poottom of the bea		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

664 of 1053 11/05/2013 10:53 AM

30100

Time:

30100 - Transbay Transit Center Project

Vuml	ber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Г-076	64	SSS - Built-Up	Beams - Plate Yield Stren	gth	Closed	09/26/2013	10/06/2013	09/30/2013	Potential	ly 🗌
	From: Webcor Consti	ruction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Please reference cor structural steel note of for flanges in built up ASTM Designation A yield point of 58ksi.	SS-1, which indica beams shall mee	ates that plates used the criteria of			Note SS-1 is condition is me	to ensure the st et. Hence, this licable to steel	specified on Gen rong column/we requirement ma plates for seismi	ak beam y be	
	The plate mills will no A572-50 criteria and maximum of 58ksi. T that will yield within the you will find correspond for reference.	further restricts the plate mills will he range of 50ksi	e yield to a guarantee material - 65ksi. Attached			ksi is a very re tests common	easonable targe ly show a lower	e maximum yield t. Also, the lab t yield than what ons (around 2- 6	ensile is	
	Please confirm, for the members produced frange of 50ksi - 65ks	rom A572-50 mate				steel contractorseismic mome	or even though i ent frame beams urther accepting	this is still a risk t is only applicat s. We agree to i the yield streng	ole to the elax this	
Г-076	66	SSS - Stiffener	Requirements at Column	Base Detail	Closed	09/27/2013	10/07/2013	10/02/2013	Potential	ly 🔲
	From: Webcor Consti	ruction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Please confirm the for base details shown of		ce to the column				e II & Type III b	s stiffeners at fla ase plate only ha		
	 a) With reference to only the Type I base column flanges and v base plates have ver column web. 	plates have vertic web, while the Typ	al stiffeners at the e II and Type III			b) Yes. the ba only. The type			ourpose	
	b) With reference to please confirm the brin these details are for indicate the type of bright with the detailed three.	ase plate type and or graphical purpo pase plate to be us	l column indicated ses only and do not							

T-0767



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

665 of 1053 11/05/2013

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: W	ebcor Construction LP	Robert Kjome	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Webcor Const	ruction LP Robe	rt Kjome	
U.S. Ple plate. W40 X 3 593 Gra W40 X 3 593 Gra A709-50	owing sizes and shapes are no ease confirm all sizes will be Bo 392 Grade A992, W40 X 503 G Ide A992 will be fabricated with 392 Grade A709, W40 X 503 G Ide A709 at the Bus Deck will be	ailt up sections from Grade A992, W40 X A572-50 Plate. Grade A709, W40 X be fabricated with	SUGGESTION:		provided in lie are domestica and grades ar equivalent bui	u of rolled shap Illy unavailable. e acceptable. P	uilt-up sections can es listed in the RF Proposed plate ty late dimensions for hall be per corresp	I that pes or the	
-0767.1 From: W Co-Author:	SSS - Fillet We debcor Construction LP	ld Sizes for Built up Memb Robert Kjome	ers To: Turner Construction Co	Closed ompan Gary Krutsch	10/18/2013 Answered By	10/28/2013 :Webcor Const	10/30/2013 ruction LP Robe	Potentia lrt Kjome	lly
REQUE The responsible for	ponse to Webcor/Obayashi RF nfirmed that equivalent built-up d in lieu of W shapes not availa 503 and W40 X 593 at the Gro 2 thru S1-2311) will be built-up provide fillet weld sizes accord the attached sketch.	sections can be able domestically. All und level (reference sections.	SUGGESTION:		equivalent to NRFI T-0704.1. 2) For built-up flange welding 4 ft from each 5/8" fillet weld Note that W40 Bus Deck and	W40x503, refer sections equiv- shall be with d end of each fla s in between. 0X503 and W40 Roof Levels. W	gestion:	web to elds for lible	
-0768 From: W Co-Author:	SSS - PJP Well debcor Construction LP	d Preperation at Column Ba	ase To: Turner Construction Co	Closed ompan Gary Krutsch	09/30/2013 Answered By	10/10/2013 Adamson Asse	10/02/2013 ociates, Inc Georg	Potentia lge Metzger	lly
REQUE Referen	ST: ace Drawing: 3/S1-5051		SUGGESTION:		ANSWER: Confirm that the	Accept Sug	gestion: o weld is 1/2" as s	hown.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

666 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

To: Turner Construction Compan Gary Krutsch

Please confirm the weld prep for the PJP weld indicated on Detail 3/S1-5051 is 1/2" deep at 45 degrees (reference CD RFI 038 SK1).

T-0769 SSS - Verify Beam Locations at Ground Level East

Robert Kjome

Closed

10/10/2013

10/02/2013

Potentially

Answered By: Adamson Associates, Inc. George Metzger

Co-Author:

REQUEST:

From: Webcor Construction LP

Reference Drawings: S1-2305, S1-2306, and S1-2307

As indicated on the sketches attached, there are beams which have not been located on the referenced drawings. The dimensions provided and clouded in red are taken from the latest Revit model. Please verify all clouded dimensions required to located the steel in question.

SUGGESTION:

ANSWER: **Accept Suggestion:**

Beam locations are identified on structural drawings

1) Dimensions to nearest gridlines,

09/30/2013

- 2) Dimensions to Edge of slab (Coordinate with architectural edge of slab drawings per sheet note on first zone plan of each level to identify beam locations),
- 3) Dimensions shown on partial plans,
- 4) Special symbols such as asterisks (*) adjacent to beam size tags in combination with sheet notes. See 3a) and 3b) for examples.
- a) Ground level: Beams supporting W systems are identified with asterisks. Sheet notes are provided on S1-2305, S1-2306 and S1-2307 stating that the locations of such beams need to coordinated with TG08.1 package.
- b) Roof park Level: Sheet note 5 on S1-2602 states that for beams with a specific connection symbol, beam locations need to the coordinated with TG08.1 package.
- 5) General note GR-13 on S-0005 which states "Assume equal spacing between established dimensions, if not indicated on drawings".
- 6) General notes GR-11 through GR-16 shall apply.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

667 of 1053

30100

Time: 10:53 AM

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
								· <u></u>	
					RFI 769 and	770 if further cla am locations oth	ines, please resub rification is neede er than those cove	d. We	
T-0770	SSS - Verify Bo	eam Locations at Roof Park Le	evel West	Closed	09/30/2013	10/10/2013	10/02/2013	Potential	ly
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQU Refere	EST: ence Drawings: S1-2602		SUGGESTION:		ANSWER: Please see re	Accept Sug	gestion:	Э.	
dimen Level 2 red, w	tached CD RFI 026 SK1 showing sions required to locate beams a Zone 02. Please verify all dimens hich have been taken from the lacurate to locate the steel in que	at the Roof Park nsions indicated in atest Revit model,							
T-0771	SSS - Lower C	oncourse Anchor Bolt Details		Closed	09/30/2013	10/10/2013	10/04/2013	Potential	ly 🖂
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								-	
REQU	EST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	e reference Drawing S1-5051 an ng in regards to the column bas				The numberin		se below matches	with	
bolt pe	firm it is acceptable to oversize enetrations through base place p	er AISC's 13th			1.Confirmed 13th edition,		e oversized per Al	SC's	
Edition	Table 14-2 (reference CD RFI	016 SK2 attached).			2.Confirmed.				
accept	firm the hole sizes indicated in table for anchor bolt penetration ntal column stiffener.					ckness shall be i edition, Table 14	n accordance with -2.	า	
plate v	ofirm it is acceptable to supply a washer above the column stiffen				4.Grout hole confirmed by	locations and protections the mock-up.	ocedure shall be		
oversi	ze hole.				5.1/2" anchor	plate matching	the base plate at	the	



0" cover at the underside of the concrete beam. See

2. For item 5 please confirm it is acceptable to use an alignment plate with a 7" diameter center hole to allow for the consolidation of concrete and aid the alignment of the threaded bar. See attached sketch SK-2 for clarification.

attached sketch SK-1 for clarification.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

668 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

2. Confirmed that it is acceptable to use an alignment

plate with a 7" diameter center hole

Alumbar	Cubinat			Ctatus	Date Created	Date Boguired	Date	Cost	Dunnand
Number	Subject			<u>Status</u>	Created	Required	Answered	_ <u>Impact</u>	<u>Proceed</u>
	acceptable to locate to own on CD RFI 016 SI					anchor bolt is no solidation of the	ot acceptable as concrete.	it will	
					6.Confirmed,	the stiffener is 2	" thick.		
 5) To aid in the alignment of the thread bar anchor rods during concrete operations, please confirm it is acceptable to provide one ½" thick anchor plate at the base of the thread bars with size to match the base plate in lieu of four separate ½" x 4" x 4" anchor plates. 6) Confirm the thickness of the stiffener for Type II and Type III column bases is to be 2". 7) Confirm an anchor bolt projection of 2.5 x AB dia. above 					the length of t washer thickn	the hex nut. Rec	anchor rod supp ommend projecti ngth + 1.5x d Mir ance	ion =	
6) Confirm the Type III colum	thickness of the stiffern the s	ner for Type II and			8.See respon	se to question #	7.		
					9.Confirmed t	he 1" clear is ac	ceptable.		
	er on top of the colum ee CD RFI 030 SK3 for				10.Confirmed that wrench tight is adequate.				
	anchor bolt extension to washer is acceptable.								
9) Confirm tha is acceptable.	t the 1" cover as show	n on CD RFI 030 SK3							
10) Confirm th tight.	at the anchor bolts sha	all be installed wrench							
T-0771.1	SSS - Lower	Concourse Anchor Bolt De	etails at Column Base	Closed	10/11/2013	10/21/2013	10/14/2013	Potential	lly
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction (Compan Gary Krutsch	Answered By	Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
As per the responding:	ponse to RFI# T-0771	please confirm the			the underside		ble to have 0" co beam, as the bo lumn.		
1. For items 8	& 9 please confirm it is	s acceptable to have			,		blata vasa av al'		



From: Webcor Construction LP

Michael Spillane

Webcor/Obayashi Joint Venture

Page: Date:

Job:

Answered By:Turner Construction Comp Gary Krutsch

669 of 1053

30100

Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0772	SSS - Anchor	Bolt Details at Column Ba	se	Closed	09/30/2013	10/10/2013	10/04/2013	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author:									
sketches in regard 1) Confirm that the 5051 are acceptable (reference CD RFI washers clear the 2) Confirm the plat acceptable (refere 3) Confirm that the 5051 are acceptable (reference CD RFI washers clear the	ole to typically locate 1034 SK1 attached; stiffener plate and vite washer size, thicknee CD RFI 034 Ske 2-1/2" anchor bolte lole to typically locate 1034 SK2 attached; stiffener plate and vite 1034 SK2 attached;	se details: s as referenced 7/S1- e as shown) so that the plate weld. kness and grade is (1 attached). s as referenced 7/S1- e as shown) so that the plate weld	SUGGESTION:		ANSWER: 1) confirmed. 2) confirmed. 3) confirmed. 4) Use 1" thick	Accept Sug	gestion:	talog.	
,	te washer size, thic nce CD RFI 034 Sk	ŭ .							
Г-0773	BGP - Geothe	rmal Fields 11, 12, & 13 La	yout in Zone 4	Closed	09/30/2013	10/10/2013	10/10/2013	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimmick C	onstruction Compa	ny, Inc Chris Williams							
To avoid conflicts	r, please confirm if	igh the buttress shaft	SUGGESTION:		install as show is not accepta system capac Documents. P contractor pro	ot be an RFI. On the Controlle. Option 2 rety and is a charter the Contract posed change stor review by the	ur preferred optic act Documents. duces geothermange to the Contra Documents this should be submitted TJPA or the TJ	Option 1 al act ted as a	
r-077 <i>4</i>	RGP-Pre-cutti	ng of CDSM Soldier Pile		Closed	09/30/2013	10/10/2013	10/21/2013	Potential	lv 🗆

To: Turner Construction Compan Gary Krutsch



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 670 of 1053 11/05/2013

Date: Time: Job:

If the results of the concrete cylinders meet ACI criteria and averages (as defined by ACI) exhibit values above design strength, the element may be considered to have attained its design strength.

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
pre-cut the in required cut waterproofing cutting of the of heat dam remainder coremoval will contractor.	esponse to RFI T-725, Winside flange of the CDSM toff elevations prior to the ng system see exhibit A foe CDSM beams would minage to the waterproofing sof the CDSM beam cutting be completed by the TGC firm if this would be accept	I beams at the installation of the or details, This pre- nimize the possibility system. The and top section 012.1 Civil Sitework			comply with m recommendati	ns and method i anufacturer's re ons to ensure p	tem. Contractor quirements and roper installation ork per contract		
T-0775		e strength requirement for b	•	Closed	09/30/2013	10/10/2013	10/10/2013	Potential	ly
From: Webc Co-Author:	or Construction LP	Michael Spillane	To: Turner Construction C	ompan Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	restion:		
contractor is design team order to fulfi the following		gth results to the ternal bracing. In ntractor has asked			removal of the	of this RFI is lin	nited to the scope	g struts:	
average stre calculated to bracing be r	he criteria for bracing remonength of the concrete cyling to be above the design streemoved? In tolerance on the design	nders tested is ength can the internal			defined in gen TG03 BSE doo temporary sho	eral note FO-5 ocuments: "F0-6 oring struts again wall and mat co	the shoring struts on sheet S-0005 on Do not remove nst foundation wa oncrete has attair	of the e Ils until	
concrete ha bracing be r	t for bracing removal, for its reached 90% of design removed? Obviously this ce construction schedule.	strength could the			For considerat concrete cylind considered act meet ACI 318 "test" in ACI w	ion of bracing roder tests, designated when all acceptance crit	emoval prior to 56 a strength may be earlier tested cyl eria. For this pured to be the avera cular batch.	e inders pose,	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

671 of 1053 11/05/2013

Date: Time: Job:

Page:

10:53 AM 30100

JOINI VEN	TURE		30100 - Tra	ansbay Irans	sit Center	Project					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
					2. The lowest level brace D may be removed when the concrete strength has reached 90% of design strength. Note that this is a relaxation of the contract document criteria and limited to the removal of the lowest level brace D.						
T-0775.1	BGP-Concrete	e strength requirement for I	evel D bracing removal	Closed	10/09/2013	10/19/2013	10/16/2013	Potential	lly 🗌		
From: Webco	or Construction LP	Michael Spillane	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Geor	ge Metzger			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
WOJV is req once the con 75% of its de	estion 2 in RFI T-0775 uesting that the level D b crete in the mat slab ber ssign strength. rm if this would be accep	neath has reached			contract docu criteria of 75% produce all no	Iready allowed a Iment requireme 6 design strengt ecessary calcula and the reduced	relaxation of the nt. To consider th n, the Contractor tions to justify that stiffness at 75%	ne shall at the			
T-0776	BGP - Mat Sla	b Construction Joint Betwe	een Area 2 and Area 4	Closed	10/01/2013	10/11/2013	10/03/2013	Potential	lly 🗌		
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y:Adamson Asso	ociates, Inc Geor	ge Metzger			
Co-Author: Shimm	ick Construction Compa	ny, Inc Filip Filipic									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
As discussed Meetings, SC S104 into on The specifica bulkheads in construction	to attached excerpt draw ckage TG0600-030.3, Ited and coordinated in various cCI plans to combine slate pour without bulkhead intons do not restict SCC the east and west direct joint layout shop drawing the coordinated revised	m ID #033000-003.3. ous Progress b pours S102 and forms in between. I from using ions. The returned g review comments			Submittal TG May 29, 2013 formed the ba (Item 033020 CTL (Shimmi	tion joints submi 0600-030.2 (Iten were acceptabl asis for CTL's Su -011). ck's consultant)	ited and approve n 033000-003.2) e to the design te bmittal TG0600- indicates that sla y likely when asp	dated eam and 201.1 b			



REQUEST:

Please reference drawing E1-2026 and Spec Section 26

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

672 of 1053

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

ANSWER:

George Metzger

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please confirm it areas S102 and forms in betweer	is acceptable to combin S104 into one pour with	ne slab placement out bulkhead			ratios exceed construction j aspect ratio p elimination of risk eliminate per the revise TG0600-030. 17, 2013. Fu new geometr CTL submitta	end the leir own S104 tal tember at the			
T-0777	BGP - FF & FL V	alues for Concourse Slab		Closed	10/02/2013	10/12/2013	10/17/2013	Potential	
From: Webcor Co	onstruction LP	Jackson Tukuafu	To: Turner Construction Cor	npan Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger	- Ш
Co-Author: Shimmick	Construction Company,	Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
This RFI is being T-0691. As per o	ttached RFI T-0691. I submitted in response contract specification sees concrete finish of the least value of 20.	ction 033020,			FL numbers of	oncourse shall b contained in the 1a. Section 3.6	e finished to the F Specification 03 3 3-1a will take prec	30 20,	
achieve a surface smooth floated s	ACI 302.1R (page 46) se with an FF value of 20 urface. ACI 302.1R does sof "F" numbers for bro), it must be a es not provide any							
finish: 1. To have	ne design intent for the over a rough broom/rake fine finished to an FF value.	inish or 2. To have							
T-0778 From: Webcor Co		Equipment and Box Layout	t in Electrical Room B2640 - A To: Turner Construction Cor		10/02/2013 Answered B	10/12/2013	10/25/2013 ociates, Inc. Georg	Potential	ly
	Construction Company,		· · · · · · · · · · · · · · · · · · ·	npan Gary Muiscii	Allowed B	7 •Audiliouli A550	ociates, inc Georg	ge Metzgel	

SUGGESTION:



"...location of outlets, fixtures and equipment..." layout as

shown in the attached SCCI sketch SK-RFI-336 for

Electrical Room B2461 in Area 08 is acceptable.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

conformance with the Contract Documents. As noted

in response to RFI 0665.1, documentation should be

presented on CAD for review and approval, hand

sketches are not acceptable.

673 of 1053 11/05/2013

Time: 10:53 AM 30100

umber Subje	ect		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Boxes, Article 3.2 - B, please	s and equipment" layout as sketch SK-RFI-337 for			electrical equip conformance v in response to	oment locations with the Contrac RFI 0665.1, do CAD for review	uts for conformar and layouts are ii t Documents. As cumentation shou and approval, han	n noted ild be	
0778.1 BGP	- Electrical Equipment and Box Lay	out in Electrical Room B2640 - Area 15	Closed	10/28/2013	11/07/2013	10/30/2013	Potential	ly 🗌
From: Webcor Construction	_P Jackson Tukuafu	To: Turner Construction Compan Gary	Krutsch	Answered By:	Adamson Asso	ciates, Inc Georg	ge Metzger	
co-Author: Shimmick Construction	n Company, Inc Ben Gordon							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Section 26 05 34. RFI #0778 response propose	Electrical Room B2640 - Area ched.			not been prope AAI. Further s should be subr	eview these layerly coordinated ubmissions of e	outs because wall Refer to markup equipment layouts drawings on CAD nation.	o from	
0779 BGP	- Electrical Equipment and Box Lay	out in Electrical Room B2461 - Area 8	Closed	10/02/2013	10/12/2013	10/10/2013	Potential	ly 🔲
From: Webcor Construction	_P Jackson Tukuafu	To: Turner Construction Compan Gary	Krutsch	Answered By:	Adamson Asso	ciates, Inc Georg	ge Metzger	
co-Author: Shimmick Construction	n Company, Inc Chris Williams							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Please reference drawing E- 05 34. As per spec section requirer Boxes, Article 3.2 - B, pleas	nent 26 05 34 - Raceways and				ewed these layo	uts for conformar		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 674 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please advise.								
-0779.1	BGP - Electrical Equipment and I	Box Layout in Electrical Room B2461 - Area 8	Closed	10/28/2013	11/07/2013	10/31/2013	Potential	ly 🖂
From: Webcor	Construction LP Jackson Tuk	tuafu To: Turner Construction Compan C	Sary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	- 🗀
Co-Author: Shimmic	k Construction Company, Inc Ben Gordon	·	•					
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please referen Section 26 05	ce RFI #T-0779, drawing El-2024, and Spe 34.	c			RFI T-0779.1	BGP - Electrical Electrical Room	B2461 -	
equipment and	response proposes layout for electrical dox layout in Electrical Room B2461 - Are	a		George Metzg	er			
	nat. See attached. n layout is acceptable.			10/29/2013 RESPONSE: WSP cannot re	eview these lay	outs because wa	lls have	
				AAI. Further s	submissions of	 Refer to marku equipment layout drawings on CAD 	S	
					or proper coord			
-0780		Box Layout in Electrical Room B2460 - Area 08	Closed	10/02/2013	10/12/2013	10/14/2013	Potential	ly
	Construction LP Jackson Tuk	Tamor Company	Sary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
	k Construction Company, Inc Chris William							
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Section 26 05	ce drawing E1-2026, A1-2104 and Spec 34.			George Metzg 10/10/2013 RESPONSE:	er			
	ection requirement 26 05 34 - Raceways an 3.2 - B, please confirm the proposed	d			ewed these layonement locations	outs for conforma	nce with	
"location of o	outlets, fixtures and equipment" layout as			dimensioning s	should be revis	ed as noted in the		
	ttached SCCI sketch SK-RFI-335 for m B2460 in Area 08 is acceptable.			Documents. A	s previously no	ance with the Cor ted in response to	RFI	
Please advise.						d be presented or sketches are no		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

675 of 1053 11/05/2013

Time: 10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Γ-0780.1	BGP - Electrica	al Equipment and Box Layo	out in Electrical Room B2460 - Area 08	Closed	10/28/2013	11/07/2013	10/30/2013	Potentiall	у 🗌
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By: Adamson Associates, Inc Geor		ge Metzger		
Co-Author: Shimmic	ck Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	nce RFI #T-0780, drawin ec Section 26 05 34.	ngs El-2026 and Al-			George Metzg 10/29/2013 RESPONSE:	er			
equipment and	response proposes layo d box layout in Electrical nat. See attached.				not been prop AAI. Further s	erly coordinated submissions of e	outs because wa l. Refer to marku equipment layout	ip from s	
						mitted as snop (for proper coord	drawings on CAE ination.)	
Please confirm	n that the layout is accep	ptable.							
From: Webcor	BGP - Electrica Construction LP	al Equipment and Box Layo	out in Electrical Room B2441 - Area 09 To: Turner Construction Compan Ga	Closed ry Krutsch	10/02/2013	10/12/2013	10/10/2013 ociates, Inc. Geor	Potentiall ge Metzger	у 🗌
From: Webcor	BGP - Electrica	al Equipment and Box Layo			10/02/2013	10/12/2013	10/10/2013 ociates, Inc Geor		у 🗌



10 in CAD format. See attached.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

not been properly coordinated. Refer to markup from AAI. Further submissions of equipment layouts

676 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Γ-0781.1	BGP - Electric	al Equipment and Box Layo	out in Electrical Room B2441 - Area 09	Closed	10/28/2013	11/07/2013	10/30/2013	Potential	ly 🗌
From: Web	cor Construction LP	Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shim	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	erence RFI #T-0781, drawir Spec Section 26 05 34.	ngs El-2024 and Al-			George Metzg 10/29/2013 RESPONSE:	er			
equipment	31 response proposes layou box layout in Electrical Roomat. See attached.				WSP cannot r not been prop AAI. Further s	erly coordinated submissions of e	outs because wa I. Refer to marku equipment layout drawings on CAI	up from ts	
Please con	firm that the layout is acce	ptable.				or proper coord		•	
Г-0782	BGP - Electric	al Equipment and Box Layo	out in Electrical Room B2560 - Area 09	Open	10/02/2013	10/02/2013	10/14/2013	Potential	ly 🗀
From: Web	cor Construction LP	Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Author: Shim	mick Construction Compar	ny, Inc Chris Williams							
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refe Section 26	erence drawing E1-2025, A 05 34.	1-2105 and Spec			George Metzg 10/10/2013 RESPONSE:				
Boxes, Arti "location shown in th	c section requirement 26 00 cle 3.2 - B, please confirm of outlets, fixtures and equipe attached SCCI sketch SIRoom B2560 in Area 09 is a	the proposed ipment" layout as K-RFI-333 for			WSP has revi electrical equi dimensioning attachments to Documents. A	pment locations should be revised be in conformals.	ed as noted in the ance with the Co ted in response t	e ntract o RFI	
Please adv	rise.						d be presented o sketches are no		
Г-0782.1	BGP - Electric	al Equipment and Box Layo	out in Electrical Room B2560 - Area 10	Closed	10/28/2013	11/07/2013	10/31/2013	Potential	ly 🖂
From: Web	cor Construction LP	Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo		,
Co-Author: Shim	mick Construction Compar	ny, Inc Ben Gordon	·	•			·		
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	erence RFI #T-0782, drawir Section 26 05 34.	ng El-2025, Al-2105,			George Metzg 10/29/2013 RESPONSE:		g		
	82 response proposes layo and box layout in Electrical				WSP cannot r		outs because wa I. Refer to marki		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 677 of 1053 11/05/2013 10:53 AM

30100

Date: 11
Time: 1

30100 - Transbay Transit Center Project

ımber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					should be sub	mitted as shon o	drawings on CAI)	
Please confir	m that the layout is acce	eptable.				for proper coord			
0783	BGP- CDSM S	Soldier Pile Encroachment A	Area 11	Closed	10/18/2013	10/28/2013	10/24/2013	Potential	ly 🗌
From: Webco	r Construction LP	Michael Spillane	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author:									
soldier piles (pour Area 11 the foundation the north elev for Location Exhibit - B & G SP are encro WOJV propos Exhibit - B) be proposing to G 34' to clear th	sal North elevation on gretween CDSM pile 234 t decrease the specified 3 de encroaching SP 235.	h wall in mat slab ne encroachment into iles 188 to 236 on the south elevation d degree in which the ridline A: (See o 236, WOJV is 86" wall thickness to Originally this was a	SUGGESTION:			r proposed revis due to encroacl	gestion:		
would change wall thickness rebar spacing WOJV propos Between CDS decrease the the encroachi	ement areas #11@8"oc e to #11@6" OC, the red s would be compensated g predicated on Detail A/ sal on the South elevatic SM piles 548 to 551 WO specified 36" wall thickr ing SP 550, originally thi t areas #11@8" oc EF v	duction in foundation If by reducing the Sk.1 (Exhibit - D). In: (See Exhibit - B) UV is proposing to the ses to 34" to clear is was a WR1							

See Exhibit - E & F showing details of transition between

Contract drawings.

In all other areas without CDSM pile encroachment issues the reinforcement will remain unchanged as per the

change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on Detail A/Sk.1 (Exhibit - D).



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 678 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

modified reinforcement to contract reinforcement.

These solutions if approved would be incorporated into the TG06 shop drawings.

Please confirm if these solutions would be acceptable.

T-0784 BGP- CDSM Soldier Pile Encroachment Area 12

Closed

10/18/2013

10/24/2013

Potentially

From: Webcor Construction LP

Michael Spillane

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Co-Author:

REQUEST:

This RFI addresses the impact of the encroaching CDSM soldier piles (SP) on the north elevation in mat slab pour Area 12 for location Plan see exhibit - A. This RFI is subject to revision as the current survey data available does not recorded positioning of the CDSM beams at the lowest mat slab elevation.

Exhibit - B, & C depict the location and degree in which the SP are encroaching

WOJV proposal North elevation on gridline A: (See Exhibit - B) between CDSM pile254 to 257, WOJV is proposing to decrease the specified 36" wall thickness to 34" to clear the encroaching SP 255 & 256. Originally this was a WR1 reinforcement areas #11@8"oc EF vertically and would change to #11@6"OC, the reduction in foundation wall thickness would be compensated by reducing the rebar spacing predicated on Detail A/Sk.1 (Exhibit - D).

The South elevation has no encroaching piles and therefore the reinforcement would remain unchanged per the contract drawings

In all other areas without CDSM pile encroachment issues the reinforcement will remain unchanged as per the Contract drawings.

See Exhibit - E which shows a detail of transition between modified reinforcement to contract reinforcement.

ANSWER: Accept Suggestion:

George Metzger 10/23/2013 RESPONSE:

10/18/2013

The contractor proposed revisions to foundation wall reinforcement due to encroaching CDSM Piles in Area 12 are acceptable. We note that the survey data for CDSM piles near the mat level is not provided in this RFI. Once that information is available, the encroachment information and therefore the foundation wall reinforcement in Area 12 may require further revision.

Answered By: Adamson Associates, Inc George Metzger



TEMPER OR DIN 34 CRNIMO 6 + QT CODE EN 10083". The pin manufacturer, Dyson Corp., indicates this material is not available and suggests a substitution to ASTM-A540

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 679 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
This solution if approved would be TG06 shop drawings.	incorporated into the							
Please confirm if these solutions w	rould be acceptable.							
0785 BGP - Colu	mn Type C31/D22 Vertical Cou	pler Layout	Closed	10/03/2013	10/03/2013	10/08/2013	Potential	ly
From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction	Compan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
co-Author: Shimmick Construction Com	pany, Inc Ben Gordon							
REQUEST: Please refer to drawing 1/S1-3300 attached Sketch SK-90. Detail 1/S1-3301 requires the coup column vertical bars be staggered of 24" or more; however, due to the vertical bars for the type C31/D22 the condition cannot be met. Attac SK-90 - C31/C22 Column Vert Lay pattern for the vertical bars in the the Please confirm the proposed concishown in the attached sketch is ac C31/D22 columns.	olers for the adjacent with a vertical distance e pattern and spacing of detailed on S1-3306, shed is Gerdau sketch rout with a proposed ype C1/D22 columns. rete reinforcement detail	SUGGESTION:				ation for placeme	ent of	
0700 CCC Links	Calumn Clavia Bin Matarial		Classed	40/04/0042	40/44/2042	40/44/0040	Dotontial	<u> </u>
.0786 SSS - Light From: Webcor Construction LP	Column Clevis Pin Material Robert Kjome	To: Turner Construction	Closed Compan Cary Krutsch	10/04/2013 Answered By	10/14/2013	10/11/2013 ociates, Inc. Geo.	Potential	ıy
Co-Author:	Robert Rjoine	io. Turner Construction	Compan Gary Mulson	Allaweied by	-Audilisuli Assi	ociates, inc Geo	ge Merzgel	
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Drawing: S1-6006 Note on drawing S1-6006 states "A		3332311011.		We checked t	he proposed su position and str bstitution for the	bstitution with requirements pin material is A	nts. An	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 680 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee
							

grade 823, class 5 (see attachment).

From: Webcor Construction LP

T-0787 SSS - Charpy V-Notch Impact Testing Requirements

Robert Kiome

rements Closed

To: Turner Construction Compan Gary Krutsch

. . .

10/14/2013 10/10/2013

Potentially

Answered By: Adamson Associates, Inc George Metzger

Co-Author:

REQUEST:

Please confirm the following regarding the Charpy V-Notch (CVN) testing requirements for the project:

(OVIV) testing requirements for the project.

The members identified on the attached sketches (SFRS - SK) are the only members that are part of the Seismic Force Resisting System (SFRS/SLRS/MF/BF) and are CVN tested in accordance with AISC 341-10 "Heavy Section" definition.

o Except from AISC 341-10: "For structural steel in the SFRS, hot rolled shapes with flanges 1-1/2" thick and thicker shall have a minimum CVN toughness of 20 ft-lb at 70°F, tested in the alternate core

location as described in ASTM A6 Supplementary
Requirement S30. Plates 2" thick and thicker shall
have a minimum CVN toughness of 20 ft-lb at 70°F,
measured at any location permitted by ASTM

A673, Frequency P, where the plates is used for the following:"

- Members built up form plate
- -The steel core of buckling restrained braces
- · SFRS/SLRS/MF material will use the "Heavy Section" definition from AISC 341-10: hot rolled shapes with flanges 1-1/2" thick and thicker and plate 2" thick and thicker.
- · Non SFRS/SLRS/MF material will use the project specification, Section 05 10 00, Part 1, 1.2, C.6, "Heavy Section" definition: hot rolled shapes with flanges exceeding 1-1/2" thick and plates exceeding 2" thick.
- Non SFRS/SLRS/MF material will be CVN tested in accordance with note SS-9 on drawing S-0007. These testing requirements apply only to steel using complete joint penetration groove welds that fuse through the

SUGGESTION:

ANSWER: Accept Suggestion:

10/04/2013

- 1-) In elevation sheets S1-4101 through S1-4116; moment frame columns, transfer girders and tapered roof girders are part of Seismic Framing (SFRS). In this RFI, only moment frame beams are highlighted by the Contractor as SFRS in these sheets. As indicated in Sheet S1-2302 (see Sheet Notes), Sheets S1-4101 through S1-4116 include "superstructure transverse seismic frame elevations".
- 2-) RFI correctly highlighted all the members in the "longitudinal seismic framing elevations" as SFRS. This was also indicated in Sheet S1-2302 (Sheet Notes).
- 3-) Buckling Restrained Braces are part of SFRS. If core plates within the BRBs 2" or thicker (unlikely since the specified BRB steel core area is relatively small), AISC 341-10 Heavy Section CVN requirements will apply.
- 4-) Ground Level Gridline G beams between Gridlines 12 and 16.9 are SFRS. Note that RFI correctly highlights these beams as SFRS in longitudinal seismic framing elevation views. However, they were not shown as SFRS in the plans.
- 5-) 2nd Floor Gridline D beam between Gridlines 16 and 16.9 is SFRS as indicated in construction drawings.
- 6-) For pipe columns (large diameter tubular sections), CVN requirements are as indicated in General Notes SS-1 (API 5L, Product Specification Level 2). CVN requirements for alternative material options for pipe columns are also provided in the same section of



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 681 of 1053 11/05/2013 10:53 AM

Time: Job:

: 10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
Number	Subject	Status	Created	Required	Answered	Impact	<u>Proceed</u>

thickness of a flange or web. Members or plates that meet this criteria shall be CVN tested as follows:

o ASTMA6/A6M hot rolled shapes with a flange thickness exceeding 2" and built-up heavy shapes with plates exceeding 2" in thickness shall have a minimum CVN toughness of 20 ft-lb at 70°F.

o ASTM A709 hot rolled shapes with a flange thickness exceeding 2" and plates exceeding 2" in thickness shall have a minimum CVN toughness of 30 ft-lb at 70°F.

o ASTM A709 hot rolled shapes with a flange thickness less than or equal to 2" and plates less than or equal to 2" in thickness shall have a minimum CVN toughness of 25 ft-lb at 70°F.

The testing is in accordance with ASTM A673. The frequency is $\boldsymbol{\mathsf{H}}$.

o For "Heavy" rolled shapes, as defined by 05 10 00, test to be in accordance with ASTM A6/A6M, supplementary requirement S30, CVN impact test

for structural shapes ¿ alternate core location. The testing is in accordance with ASTM A673. The testing frequency is H.

o For "Heavy" built-up shapes, as defined by 05 10 00, test to be in accordance with ASTM A6/A6M,

supplementary requirement S5, CVN test. The testing is in accordance with ASTM A673. The testing frequency is P.

- Confirm that the exception noted in the response to SK RFI 020 (W/O T-0732) for the built-up train box columns still applies which states that for the built-up heavy plates of the train box columns frequency H testing is acceptable.

Please confirm that this RFI, and its response, shall be the governing document for all CVN testing for the structural steel shapes, plates and bars, and that no further testing, beyond what is explicitly stated within the RFI and its response is required.

General Notes. Note that the CVN requirement for option 1 (API 2B) and option 2 (Spuncast pipe) shall be 30 ft-lb at 0 degree Centigrade (not 0 degree Fahrenheit). This revision is to a higher temperature therefore to a less stringent CVN requirement.

Data

- 7-) CVN requirements for steel below grade columns are as indicated in our response to RFI T-0732.
- 8-) For Non SFRS/SLRS members, the testing requirements indicated in General Note SS-9 apply to a) steel using CJP welds that fuse through the thickness of a flange or web, b) members that are spliced using CJP welding (see meeting minutes, 09/26/13 Weekly Structural Issues Coordination).

We note that scope of this RFI is limited to CVN requirements for steel plates.

BGP - Areas 5 and 6 EW Top Mat Reinforcing at South Wall Radius

Closed 10/04/2013

10/14/2013

10/04/2013 Potentially

Answered By: Adamson Associates, Inc George Metzger

T-0788



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

682 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

lun	nber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Refer to the attached sketch 131003_S105-S106 South Radius.			George Metzo 10/4/2013 RESPONSE:	ger			
	In Areas S105 and S106, EW top mat reinforcing makes an increasingly acute angle with the south wall. This eventually prevents the reinforcing from penetrating the haunch and wall reinforcing curtains to reach the edge of the mat.			It is acceptable Areas S105 a		EW top mat reinfo reaching the edo FI.		
	Per field coordination, please confirm it is acceptable to terminate EW top mat reinforcing in a hook prior to reaching the edge of the mat slab provided the following provisions are as followed:							
	 All terminating EW top mat reinforcing shall be hooked Where the angle becomes such that the mat reinforcing cannot penetrate the inner wall reinforcing. The reinforcing may terminate immediately in front of the wall reinforcing inside the haunch. This is labeled Zone 1 in the sketch. In Zone 1, single haunch bars that interfere with penetration of mat reinforcing into the haunch shall be relocated to allow penetration. Relocation will be to the nearest adjacent placement opportunity without regard to the 8" spacing module. Clear spacing, however, between haunch bars shall be maintained. The total number of haunch bars will remain unchanged. 							

T-0789 ASI 106 - Forced Air Thermal Cooling addition to LCC Nodes

Robert Kjome

In Zone 1, provide a curved band of reinforcing at the typical size and spacing of the mat within the wall.
Where the angle becomes such that the mat reinforcing cannot penetrate the haunch without relocating more than one haunch bar, reinforcing may terminate at the toe of the haunch. This is labeled Zone 2 in the sketch.
In Zone 2, provide a curved band of reinforcing at the typical size and spacing of the mat within the haunch.
Zone 1 and Zone 2 bands will overlap typical reinforcing

Closed

10/17/2013

10/21/2013

Potentially

REQUEST:

by the distance LTS.

From: Webcor Construction LP

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

Co-Author:

SUGGESTION:

ANSWER:

10/07/2013

Accept Suggestion:



thickness may be 1/2" as per Detail 3 Section A, not 2" as

shown.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 683 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
ASI 106 spector "casting to however, in carbon equivible will need to	Attached Bradken letter cification section 05 15 2 to be normalized with forcorder to reach other required alent, and mechanical potential potentials are quench the material properties specificed for this specification requences ability to deliver the path of this change to the second	ced air cooling."; irements (chemistry, roperties) Skanska il to achieve the the nodes. irement willl greatly product, thus Bradken			(liquid quencl	ning) is acceptab	by Bradken/Skan ble to replace norr atment specified in	nalized	
T-0790	SSS - Anchor	Bolt Diameter Clarification		Closed	10/07/2013	10/17/2013	10/09/2013	Potential	Ily
	r Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:	. 04 5054		SUGGESTION:		ANSWER:	Accept Sug		0/48	
See attached anchor bolts	rawings: S1-5051 I CD RFI 043 SK1 & SK: for the columns at Grids per 7/S1-5051.				diameter and (Type T anch without additi	hor is similar to to or bolts). At the onal cost to TJP	er. The details for the ones for 1" dia contractor's optio A, 1" diameter an e the 3/4" diamete	imeter in chor	
T-0791	SSS - Anchor	Plate Dimensions		Closed	10/07/2013	10/17/2013	10/09/2013	Potential	lly
From: Webco	r Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered B	y:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
plate washer	CD RFI 044 SK1 and c dimensions are sufficier	nt for the 2 1/2" dia.			The plate was 4" x 4").	sher dimension i	s correct as show	n (2' x	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

684 of 1053

Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0792	SSS - Anchor	Bolt Detail Clarification		Closed	10/07/2013	10/17/2013	10/21/2013	Potential	ly 🗌
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Dra	awing: S1-5051						ımn web, moving		
is not sufficier	vasher will clear the fille nt to accommodate the nce based on the maxir Please advise.	maximum anchor bolt			proposed in R column flange suggest locati column cente	RFI will cause wa e (or welds). To ing the 2 1/2" an r line (in directio	lumn center line asher plates to cl alleviate this pro- achor bolts 4" fro- n parallel to web may be deleted	ash with bblem, m). The	
not sufficient t as-built tolera per A.I.S.C. C	vasher will clear the fille to accommodate the ma nce based on the maxin confirm it is acceptable to me the center of the col	aximum anchor bolt num oversize holes o locate the anchor			to column web, in this RFI is acc	veb, moving			
-0793	SSS - Connec	tion Plates at Type 2 Drag	Connections	Closed	10/07/2013	10/17/2013	10/22/2013	Potential	ly 🗌
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
finger type co beams slide b beams to side	or the Type 2 Drag conr nnections where the car between the framing plate down between these s in please confirm a 1/8"	rrying plates on the tes. In order for the hop attached plates	SUGGESTION:		ANSWER: Confirmed that	Accept Sug at the proposed	gestion: 1/8" gap is acce	otable.	
-0795	SSS - Transfe	r Girder Stiffener Configu	ration	Closed	10/07/2013	10/17/2013	10/11/2013	Potential	ly 🖂
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Webcor Const	ruction LP Rob	ert Kjome	, _—
Co-Author:				•				•	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Dra Stiffeners req line F are foul 5052 and 4/ S	aiwngs: S1-4302 & S1-5 uired on TR9 transfer gi ing. Stiffeners were det S1-5052. See attached s cation. We propose to to ouling.	rder (A/ S1-4302) at ailed as per 2/ S1- sketch CD RFI 040			be avoided m	required. Interfe	erence for this ca grade column st		
Please advise	e if this proposal is acce	ptable.							



to shift the joint Eastward to capture the thickened section

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

685 of 1053 11/05/2013

Time: 10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Pr
-0796	SSS - Transfe	er Girder Stiffener Thicknes	s	Closed	10/07/2013	10/17/2013	10/09/2013	Potentially
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Construction Comp	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	orge Metzger
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
For columns above out thicknesses of for tfc >2"). For cc \$1-5052 calls out note 3)". Note 3 s girder elevations". Where columns a girder and full height girder elevations, full height stiffene	f "X=1 1/2" for tfc columns that are belowed in the stiffener tates "Stiffeners recovered in the stiffeners recovered in the stiffeners are should be stiffeners.	petail 1/ S1-5052 calls 2 or tfc=2" and "X=2" ow transfer girders 4/ PL ea side, typ. (see quired UON in transfer and below a transfer hown per transfer hat thickness these			below an abo that line up w used within the or 6/S1-5052 govern the the condition is in which states, transfer girde in Detail 2 and details), Deta understood by Note that whe connected to	ve grade column the flanges of the fransfer girder which are for all ckness of the fudicated by Note the stiffeners are relevations. For d 6/S1-5052 (see it 1/S1-5052) is refer the above grather transfer girder which the flant fransfer girder the fransfer girder which transfer girder w	is present immen, full depth stiffer the column abor. Therefore, Debove grade coluil height stiffened 4 of Detail 1/S1 te half-depth UO or information not e Note 2 in these ferred to as columns are ders via castings quirements are designed.	eners ove are estails 1, 2 mns, ers. This -5052 N in t shown e rrectly
-0797	BGP - Mat Sla	ab Construction Joint Conf	licts in Area 8	Closed	elevations.	10/18/2013	s from Transfer 10/16/2013	Potentially
From: Webcor Co	nstruction LP	Jackson Tukuafu	To: Turner Construction Comp	an Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Geo	orge Metzger
Co-Author: Shimmick C	Construction Compa	ny, Inc Filip Filipic						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
from submittal par SK-0341. The east side of the (S108) has several keyway and other following are iden remediation: 1. The current east within the row of reand Photo-2. SCH-/- to the East of 2. The east consideration:	he mat slab construal constructability is project structure el tified conflicts and set construction joint nicropiles as shown CI intends to jog the GL 16.6 to clear the truction joint of area	action joint of Area 8 sues with the mat ements. The SCCI proposed			shift is " 12' not "12"+/- depicted in th 2. The propos not acceptabl alternative wo parallel) to Gl	e the RFI means +/- to the East to to the East of GI e RFI sketch Sk sed jog around to e as proposed. build be to turn th F.7 within S10	s to state the proposed of the proposed of the proposed of the pit/thickened of the pit/thickened of the CJ westward of the CJ westward of the CJ on the westward of the pit/thickened of the proposed of the pr	" (and aphically ceptable. slab is ceptable along (or 90



Two vertical bars in the pilaster will have to be bent in order to clear the pipe and two others will have to be slightly displaced to clear the pipe. See the attached

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

686 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

0 0	THE VENTONE		30100 - 1ran	sbay Trans	sit Center	Project			
Numb	er <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
		Subject Status Date Created D							
	within the Area 8 pour.								
T-0798		•	side) Conflicts in Area 09	Closed	10/08/2013	10/18/2013	10/16/2013	Potential	lly
I	From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	ge Metzger	
Co-Au	uthor: Shimmick Construction Compa	ny, Inc Filip Filipic							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
					10/15/2013	ger			
	(S109) has several constructability iss	sues wih the mat				I mat joint betwe	en S109 and S1	10 is	
	proposes to install the CJ between ar shown on the attached sketch.	ea 09 and 10 as					int on west side	of area 9	
T-0799	BGP - Partitio	n Wall Pilaster and Plumbir	g Conflict at GL C.5/4.8	Closed	10/08/2013	10/18/2013	10/10/2013	Potential	lly
ı	From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Au	uthor: Shimmick Construction Compa	ny, Inc Ben Gordon							
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Please refer to drawing S1-2052 and	S1-9050.				ger			
		t with the drainage			RESPONSE: The revised re	einforcement de scribed in the R	•	ar Grid	



From: Webcor Construction LP

Co-Author: Shimmick Construction Company, Inc. Filip Filipic

Jackson Tukuafu

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Adamson Associates, Inc George Metzger

687 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Gerdau sketch SK-93 for details. Please confirm the revised reinforcement detail for the partition wall pilaster as detailed in sketch SK-93 is acceptable. T-0800 SSS - Top of Base Plate Elevation Clarification Closed 10/08/2013 10/18/2013 10/09/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Drawing: S1-3621, S1-5051 Yes, the top of the base plate for grids 21.0/D.4 & 21.0/E.6 shall be at (-) 4'-6 1/2". The top of base plate elevation at Grids 21.0/D.4 & 21.0/E.6 is shown as -4"-4 1/2 in 2/S1-5051 but when working with detail 5/S1-3621, the top of base plate elevation is -4' -6 1/2. Please refer to attached CD RFI # 041 SK1 to SK3 and provide the top of base plate elevation to be used at the noted Grids. T-0801 SSS - Revit Model Dimension Verification Closed 10/08/2013 10/18/2013 10/09/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: **REQUEST:** SUGGESTION: ANSWER: **Accept Suggestion:** See response to RFI-0769. Resubmit the RFI On S1-2302, S1-2303 & S1-2304 there are some beam & HSS member locations that are not located on the design considering the guidelines provided in the response to drawings therefore we have used the Revit model to locate RFI-0769 to locate beams on floor plans these members. On sketch CD RFI 047 SK1 to SK3 please verify all clouded dimensions that were taken from the latest Revit model received 9/12/13 to locate the steel in question. T-0802 BGP - Mat Slab Construction Joint (east side) Conflicts in Area 10 10/08/2013 10/18/2013 10/16/2013 Closed Potentially

To: Turner Construction Compan Gary Krutsch



of the W21x48 for the W21x44 and W21x55 for the

W21x50 would resolve the stability issue. Please advise if

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

negatively affect the edge clearance. Skanska may

decide to move the beam to gain the same edge

688 of 1053 11/05/2013 10:53 AM

30100

Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
	to attached SCCI sketch rpt from submittal packa				George Metzger 10/15/2013 RESPONSE:						
(S110) has s	e of the mat slab constru several constructability is other project structure ele	sues wih the mat				d mat joint betwe	een S110 and S11	1 is			
proposed to	install the CJ between are attached sketches.					T-0798 for the jo 3110 and S111.	int on west side o	f area			
	rm the revised construction attached SCCI sketch S										
T-0803	SSS - 2nd Lev	vel Revit Model Dimension	Verification	Closed	10/08/2013	10/18/2013	10/09/2013	Potential	ily		
From: Webco	From: Webcor Construction LP Robert Kjome		To: Turner Construction Co	mpan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger			
Co-Author:											
REQUEST: On S1-2402, S1-2403, S1-2404, S1-2406 & S1-2407 there are some beam & HSS member locations that are not located on the design drawings therefore we have used the Revit model to locate these members. On sketches CD RFI 048 SK1 to SK5 please verify all clouded dimensions that were taken from the latest Revit model received 9/12/13 to locate the steel in question			SUGGESTION:		response to F the guidelines	RFI-0769. Resu	gestion: rract document. S bmit the RFI cons response to RFI-	sidering			
T-0804	SSS - W21 Be	am Substitution		Closed	10/08/2013	10/18/2013	10/11/2013	Potential	lly		
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Geor	ge Metzger			
Co-Author:											
on Dwgs S1- S1-2407 (Se Level) and D these beams		d Level), S1-2402 to 502 to S1-2507 (Bus 7 (Roof Park Level), anges. These beams	SUGGESTION:		on either one substitutions acceptable as TJPA. Howe	or both sides of for temporary end solong as there in ver, where there	shaft opening or rethe W21, the projection stability are so no additional coats an opening or	posed e st to recess			
	these beams have relatively narrow flanges. These beams sizes are problematic with regard to stability during erection for spans over 30 feet in length. The substitution						the W21, substitution with wider flange	0			



- Part C do not apply. Please confirm.

Webcor/Obayashi Joint Venture

Trebeen e bajaem e em tremene

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

the removal of weld tabs and backing shall be in accordance with the details included in the contract

689 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
these sub	ostitutions are acceptable.				distance and s dimensions) as		ed framing plan (with	
-0805	BGP-Area 7 le	vel D bracing removal		Closed	10/08/2013	10/18/2013	10/21/2013	Potential	ly 🗌
From: We	ebcor Construction LP	Michael Spillane	To: Turner Construction Com	pan Gary Krutsch	Answered By:	:Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
supportin (PB&A) s dimensio bracing s level D bi across th Areas 7 & as well a: The remo to be con delays to As part o put a mo which wil mat slab	or response to RFI T-0641 ple g information from the interniee exhibits B this information nal structural analysis of the ystem. WOJV is proposing t racing in area 7 and also the e Construction joints betwee & 8 waler (WD-09 to WD-12, s struts 20-25 level D See Skoval of this bracing will allow an pleted in area 7 and mitigate the construction schedule. If this bracing removal proceditoring plan in place to moniful be unsupported by either the or the level D walers and struction if this would be accept	al bracing designer is a three CDSM wall and he removal of the bracing which spans in Areas 6 & 7 and & WD-60 to WD-63 (-1 2 & 3 in exhibit A) all the first lift of wall e any possible ss, WOJV will also tor the CDSM beams e concrete of the uts see exhibit C			removed above reached adeques hould comme. Where mat slate removal will all risk of cracking CDSM materia illustrated on desire the comment of the comment	on where the Lee a poured mat uate strength, the strength as to the application of the strength own additional magnetic and loss of wall as compared trawing GT-111 at the early rem	evel D bracing wi slab that has not be structural engi propriateness of the poured, Level D be provement and po- tatertightness of the to the sequence 2. Therefore we proval of the Level	neer his. oracing se a	
-0806	SSS - Backing	Bar Removal from CJP W	elds	Closed	10/09/2013	10/19/2013	10/11/2013	Potential	ly
From: We	ebcor Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By:	Adamson Asso	ociates, Inc Geor	ge Metzger	-
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
members 'subject t	rence to AWS D1.1, Skanska s or connections identified on o cyclical loading'. Therefore, nding that the provisions of A	the drawings as it is our			not apply.		Caluse 2-Part C		



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

690 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

umber Subj	ect		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	elds subject to the provisions s the governing reference for king.			tabs and back	king are not spec ments, AWS D1	where removal of where removal of whically detailed or .8, Table C-1.1 is	n the	
0807 Bloc	kout and reinforcement detail on th	e future bridge decks	Closed	10/10/2013	10/20/2013	10/16/2013	Potential	ly 🗌
From: Webcor Construction	LP Michael Spillane	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
48"diameter bridge piers su installed) temporary bridges and Beale street. Provide specification for por	appropriate concrete cover with			block-outs for TG07.2 Groun block-outs are therefore the	rstanding that the the temporary be nd Level concrete considered ten	is RFI is in regards or idge piers through the roadway slabs. In porary openings the Contractor per e a detail.	gh the These and	
0808 SSS	- Material Grade Certification		Closed	10/10/2013	10/20/2013	10/18/2013	Potential	ly 🗌
From: Webcor Construction	LP Robert Kjome	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
and confirm all connection in 5051 is ASTM A36 material	RFI 046 SK1 to SK5 sketches material shown on drawing S1- per the material note for -0007 unless specifically noted			Confirmed				
0809 SSS	- Shear Plate Connections		Closed	10/10/2013	10/20/2013	10/22/2013	Potential	ly 🗌
From: Webcor Construction	LP Robert Kjome	To: Turner Construction Com	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	



shall be ground to fit closely against flanges."

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

following cases, "fitted" requirement can be

691 of 1053 11/05/2013

30100

Time: 10:53 AM

				•		,					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
	hear plate connection es CD RFI 060 SK1 o		SUGGESTION:		ANSWER: Accept Suggestion: 1. Confirmed. It is typically acceptable to provide a distance of 2 3/4" between face of the beam web and the bolt centerline.						
face of beam we marks. 2. Confirm it is a "k" distance of the maintaining a 1/2	cceptable to locate the bas shown for duplication cceptable to cope the ne supported beam (V2" minimum clearance lieu of the 1/2" max. s	eation of shear plate be beam to match the V24) while be to avoid cutting			beam by a di minimum cle 5011 applies beam and e Figure 10-3 o	stance of k - e w arance as noted . k is the "k" dist is the fillet encro of the AISC Stee	cope the supporter while maintaining a wherever detail 1 ance of the supporter achment allowed I Manual 14th Edit n the RFI, see res	1½" /S1- rted per ion.			
3. Confirm the sl W16x31 to W24	hear plate thickness a x68 connection as pe ar plate and 1/4" weld	r Note 3 in 1/S1-			3. The shear plate connection shown in SK1 and SK2 occurs at 4 locations between GL 12 and 14. W16 beams at these four locations are going to be upsized in a future ASI.						
T-0810	SSS - Transfe	r Girder Kicker Connection		Closed	10/10/2013	10/20/2013	10/11/2013	Potential	lly		
From: Webcor Co	onstruction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y:Webcor Const	truction LP Robe	rt Kjome			
Co-Author:											
per detail 5/S1-5 locations as note	r grids 24.9/E the kic 015 will miss the con ed on sketches CD R n alternate connection	necting beams at 4 FI 064 SK1 & SK2.	SUGGESTION:		locations hig	hlighted in the R	gestion: 5 slope at the four FI so that the top 444 beams that sp				
T-0811	SSS - Fitted S	tiffeners		Closed	10/10/2013	10/20/2013	10/17/2013	Potential	lly		
From: Webcor Co	onstruction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered B	y :Adamson Ass	ociates, Inc Georg	ge Metzger			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Reference: Attac Spec 05 10 00 -	ched sketch 16 N states: "Stiffene	ers: Fitted stiffeners			"fitted" stiffer	tiffener is called ner, it shall be gr	out in the drawing ound to fit closely e specification. In				



Please refer to sketch CD RFI #070 SK1. The BU

members on Grid 1 are not noted as MF, TR or TPG and it

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Bottom flange bracing is not required at the BU-

40x22x1x2 beams along GL 1.

692 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
terminology does drawings. 2. Confirm it is ac	which stiffeners are finct appear to be not appear to be not appear to provide inus 1/16" for fabrica	the shear plate			standard AIS stiffeners are CJP welding. 8003. c-) In D	C fabrication tole welded to beam b-) In Sheets S etail 1/S1-5013. er is not called c C fabrication tole	n be constructed erances: a-) When /column flanges 1-8001, S1-8002, out as "fitted", use erances for const	n using S1-	
T-0812	SSS - Pipe Co	olumn Connections to Cas	t Nodes	Closed	10/10/2013	10/20/2013	10/18/2013	Potential	
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Constructio	n Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
and cast node de 1. Work points fo node connections work line as note	ached sketches with stails for pipe connect r 32" diameter baske s have been offset fr d on design sheet S eed to be bevel cut to	etions to cast nodes. et column to cast om the theoretical			line of the pip cast node. S perpendicular to be bevel con geometry.	e is not in line wince the cast not to the cast nodut to match face	et S1-4020, the country that the center line de ears are caste e axis, the pipe et of the case node the case and so the case a	e of the ed to be nd need	
the 32" diameter along the top sur matching the cut	pipe we propose to a face on centerline of surface to the cast r	the pipe to facilitate			methods. The shall be subm	e depth and thic nitted for review. of the appearance	s a part of means kness of the scrib Scribe line if add se of the cast nod	oe line ded,	
T-0813	SSS - Kick An	gle Requirements		Closed	10/10/2013	10/20/2013	10/21/2013	Potential	ly 🗌
From: Webcor Co	nstruction LP	Robert Kjome	To: Turner Constructio	n Compan Gary Krutsch	Answered By	y:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Please confirm it is acceptable to increase the top mat

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

693 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

RESPONSE:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please adv	which kicker brace detail or ise which kicker brace detai along Grid 1	• •							
Г-0814	SSS - Missing	BU Members in the Bottor	n Flange Brace Schedule	Closed	10/10/2013	10/20/2013	10/14/2013	Potential	
From: Webo	cor Construction LP	Robert Kjome	To: Turner Construction Cor	mpan Garv Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor		,
Co-Author:		·		, ,	·		,	J	
SK1 and su	: 7/S1-5015 please refer to sk upply the information for the 5 & BU 30x22x1.5x2 memb	missing BU	SUGGESTION:		be braced per noted in the d 7/S1-5015 wh 12". The BU3	6/S1-5015 whe etail is less than tere the "H" dime	gestion: ame (MF) beams re the "H" dimen or equal to 12" of ension is greater phlighted in the R s "H" < 12" for the	sion or per than :FI are	
Г-0815	SSS -Missing k	licker Brace Details		Closed	10/10/2013	10/20/2013	10/21/2013	Potential	ly 🖂
From: Webo	cor Construction LP	Robert Kjome	To: Turner Construction Cor	npan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	- Ш
Co-Author:									
please refe supply the a be used for	: level near grid line 12 and a r to sketches CD RFI # 073 appropriate kicker brace de the noted beams as these ansfer Girders or Tapered G	SK1 to SK3 and call on S1-5015 to beams are not MF	SUGGESTION:			etail 7/S1-5015,	gestion: in the similar to the on		
Г-0816	RGP - Revised	Placement Tolerance at T	on Mat Reinforcement	Closed	10/10/2013	10/20/2013	10/22/2013	Potential	lv 🖂
	cor Construction LP	Jackson Tukuafu	To: Turner Construction Cor				ruction LP Jack		
	mick Construction Compan		Tamor Construction Con				January Li Guon	SSII TANGGIU	
REQUEST:	·	,, · · · · · · · · · · · · · · · · · ·	SUGGESTION:		ANSWER:	Accept Sugg	nestion:		
	er to drawing S1-2052 and A	CI 117.	220010		George Metzo 10/18/2013				



Number

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Date

Answered

10/23/2013

694 of 1053 11/05/2013

Impact Proceed

Time:

10:53 AM

30100

30100 - Transbay Transit Center Project

Status

Date

Created

Cost

Potentially

Potentially

slab reinforcement placement tolerance from +/-1/2" to +1/2" and -1" as discussed and coordinated with TT field

respresentative. This would also change the concrete

cover tolerance from -1/2" to +/-1/2".

From: Webcor Construction LP

From: Webcor Construction LP

Subiect

Minimum acceptable concrete cover over top reinforcing stands at 1" per ACI 117 Section 2.2.2 (+1/2 proposed in RFI). Minimum acceptable concrete cover over headed reinforcing stands at 1/2" per ACI 117 Section 2.2.2.

Date

Required

Maximum acceptable concrete cover may be increased to as much as 3" provided that the distance from the top of reinforcing to the protection slab is no less than 58" (Relaxation of proposed -1" tolerance in RFI to -1.5" with stipulation).

Answered By: Adamson Associates, Inc. George Metzger

T-0817 BGP -Compressible material between concrete structure & CDSM wall Closed

Michael Spillane

To: Turner Construction Compan Gary Krutsch

Co-Author:

The contractor has raised a concern see letter in exhibit A

attached.

REQUEST:

Does the design team envisage any possible issues with the CDSM wall if the waterproofing substrate becomes compressed between the permanent structure and the CDSM wall once the level D bracing is removed? The same question applies when the re-bracing is installed against the permanent foundation walls.

Closed

ANSWER: **Accept Suggestion:**

10/21/2013

George Metzger 10/21/2013 RESPONSE:

10/10/2013

10/11/2013

We do not envisage any problems with the CDSM wall due to the compressible layer. The performance of the CDSM wall with regards to meeting the specified deflection criteria is the responsibility of the internal bracing designer.

WOJV shall coordinate between the Waterproofing and shoring Sub-contractor and provide requested information to BBI.

T-0818 SSS- Kicker Brace Connection to Underside of Beam Flange

Robert Kjome

To: Turner Construction Compan Gary Krutsch

Answered By: Adamson Associates, Inc George Metzger

10/17/2013

Co-Author:

REQUEST: On S1-2505 at grid lines 20.1/E please refer to sketches CD RFI # 074 SK1 & SK2 and supply a connection detail SUGGESTION:

SUGGESTION:

ANSWER: **Accept Suggestion:**

10/20/2013

Adjust the slope of the kicker brace such that the top gusset plate connects to the bottom flange of the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

695 of 1053 11/05/2013

Date: Time: Job:

for the metal deck at the gap between the WT and the transfer girder top flange. Refer to SKS-0288

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
for the kicker b shown.	orace to the underside o	of the beam flange as			to underside o plate detail 7/5	f beam flange r 31-5015. Slope	n detail of kicker I efer to typical gus of the kicker brac zontal to 5 vertical	set e	
-0819	SSS -Gusset F	Plates at Kicker Angle Conne	ctions	Closed	10/10/2013	10/20/2013	10/14/2013	Potential	lly
From: Webcor	Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
kicker angle co	or the bottom flange con connection clarification pl RFI # 077 SK1 & SK2 fo	lease refer to			Confirmed. Ch gusset plate a are acceptable	anges propose s shown in CD	d in the RFI (cutting RFI 077 SK1 and	ng the SK2)	
shown to avoic beeffective in t 2) Confirm it is shown to avoic	acceptable to cut the g d a pointed corner as the the shaded triangle area acceptable to cut the g d a pointed corner as the shaded triangle area.	e weld will not a. gusset plate as							
-0820	SSS - Missing	Beam Connection Details		Closed	10/10/2013	10/10/2013	10/22/2013	Potential	ııv 🗀
	Construction LP	Robert Kjome	To: Turner Construction Com				ruction LP Robe		шу
Co-Author:	Construction Er	Robert Rjoine	10. Turner Construction Com	pair Gary Kruisch	Allswered by	Webcoi Consti	TUCTION LF KODE	it Kjoine	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
At the ground I please refer to items 1 to 4 be 1) Supply a co 2) Confirm con 3) Supply a co	level north of grid line G sketches CD RFI # 078 elow and supply connect nnection detail. nnection is per 12/S1?]5 nnection detail. nnection detail.	8 SK1 to SK4 for tion details as noted.			1. Connection similar to 2/S1 shear plate, th between the th of plates to ma flange plate wi plate and 4 bo spacing betwee plate thickness and transfer gi	detail at the W3 -5011 except the connection winee transfer girlatch the larger of dths. Provide 2 lts in the bottomen the bolts, both and fillet weld rder flanges/we	Box99 beam will be at instead of a sire ill have two shear der flange plates. If the transfer gird bolts in the top slow shear plate. Bolt let edge distances between the shear borothe closure provide closure provide closure provide in seam will be shear be shear plate.	ngle plates Width er hear t sizes, , shear ar plate es are	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

696 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Tranchay Trancit Contar Project

George Metzger

There are a number of sprinkler drains that terminate

in the level B2 stairwells outside of the exit path

with an indirect waste connection and they are located

radius. The dedicated indirect waste connections for

the sprinkler drain risers are an integral part of the

10/30/2013

RESPONSE:

JOINT VENTURE			30100 - Transb	ay Transi	t Center	Project			
Number	Subject Status Oate Created Pate Date Date Date Date Impact (attached) for the connection details. 2. Provide connection detail per 2/51-5011 except that the shear plate spans between top and middle flange plates of the Transfer grider. Refer to SK5-0280 (latached). 3. Connection detail at the W30x99 beam will be similar to that described in 1. For the connection at W40x183, provide 2 bolts in the top shear plate and 7 bolts in the botton shear plate. Width of plates to match the larger of the transfer grider thange plate widths. Bolt sizes, spacing between the bolts, bolt odge distances, shear plate thickness and filler weld between the shear plate and transfer grider thange plate widths. Bolt sizes, spacing between the bolts, bolt odge distances, shear plate training grider flange plate widths. Bolt sizes, spacing between the bolts, bolt odge distances, shear plate training grider flange plate widths. Bolt sizes, spacing between the bolts, bolt odge distances, shear plate plate and transfer grider than the plate and transfer grider than the plate and transfer grider Shear plate plate sizes are plate and transfer grider than the plate plate and transfer grider. 4. Provide a double angle connection per detail 9/S1-5010 at the W40x183 beam. Provide 1 bolt less than that required by the connection details. 4. Provide a double angle connection per detail 9/S1-5010 at the W40x183 beam. Provide 1 bolt less than that required by the connection details. 4. Provide a double angle connection per detail 9/S1-5010 at the W40x183 beam. Provide 1 bolt less than the plate and transfer grider. 4. Provide a double angle connection per detail 9/S1-5010 at the W40x183 beam. Provide 1 bolt less than the plate and transfer grider. 4. Provide a double angle connection on other side of the transfer grider. 4. Provide a double angle connection per detail 9/S1-5010 at the W40x183 beam. Provide 1	Proceed							
					2. Provide cor the shear plate plates of the T (attached). 3. Connection similar to that W40x183, probolts in the bomatch the larguidths. Bolt siedge distance between the sflanges/web for 2/S1-5011. We per 5/S1-5015	nection detail pe spans between ransfer girder. If detail at the W3 described in 1. vide 2 bolts in the tom shear plate ger of the transfezes, spacing be s, shear plate thear plate and tor the two plates hen a transfer ger at a beam with	er 2/S1-5011 excent top and middle flager to SKS-0288 BOx99 beam will be For the connection he top shear plate be. Width of plates the ween the bolts, both sickness and fillet was are to be followed irder brace is requals	lange an at and 7 to te bolt weld d per ired	
					plate. Bottom not required in (attached) for 4. Provide a d	gusset plate per such instances the connection of ouble angle con	5/S1-5015 is typic Refer to SKS-02 details.	cally 89 9/S1-	
T-0821	BGP - Plumbing Line	in Area 4 Stairway		Closed	10/10/2013	10/20/2013	10/31/2013	Potential	ly 🗌
From: Webcor Constru	uction LP	Jackson Tukuafu	To: Turner Construction Compan G	ary Krutsch	Answered By	Adamson Asso	ciates, Inc Georg	e Metzger	
Co-Author: Webcor Constru	uction LP	Jackson Tukuafu							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference Drawing P1-2022 between Line C/4-5

Per drawing P1-2022, a 6" sanitary line and vent connection is shown inside the Area 4 stairway. WOJV recognizes the need to flush the sprinkler system and/or needed drain. However, per CBC Code 2007 section 1020.1.2, plumbing line or drains are not listed under Penetrations.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

697 of 1053 11/05/2013

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	onfirm the plumbing line deta will comply with the referen				sprinkler syste riser itself.	em just as much	as the sprinkler	drain	
Γ-0822	SSS - Angle C	onnection Details at GL 23		Closed	10/11/2013	10/21/2013	10/14/2013	Potential	
From: Wel	bcor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author:									
REQUES	Т:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
attached (5015 may	05 around the light column (CD RFI 062 SK1 and confirm) be applied at the noted (16) detail reference.	n details 6 & 7/S1-				aces may be pro is highlighted loca	ovided per 6 and ations.	7/S1-	
Γ-0823	SSS - Bolted E	Beam Connections		Closed	10/11/2013	10/21/2013	10/14/2013	Potential	ly 🗌
From: Wel	bcor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Georg	ge Metzger	
Co-Author:									
REQUES	Т:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	012 for the typical bolt beam cetches CD RFI # 079 SK1 to				changed to 13	Vertical bolt edo 3/4" in details 1 t more than 7/8	ge distance 2db o and 2/S1-5012 if '.	can be the bolt	
& 2/S1-50 2) Confirm 1, 2 & 3/S					for details 1, 2	and 3/S1-5012	ensions are accep . Note that the dis bolts and the face	stance	
4) Supply 5) Confirm	plate thickness. welding for shear plate to condimensions are acceptable dimensions are acceptable.	e.			3) Plate thickn ASI 106 drawi		oted on Superstro	ucture	
	plate thickness.	5.					and column are ed on ASI 106 dra		
					5) Confirmed.	Noted dimension	ns are acceptabl	e.	
					6) Confirmed.	Noted dimension	ns are acceptable	e.	



1) The noted "MF" beam is a BU-44x24x1.25x2.75. Detail

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

GL 21, provide connections per 1/S1-5011. There are

698 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

				<u> </u>					
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					7) Plate thick ASI 106 draw		ted on Superstruc	cture	
-0824	SSS - Bottom	Flange Connection Plate		Closed	10/11/2013	10/21/2013	10/22/2013	Potential	ly 🗌
From: Webc	or Construction LP	Robert Kjome	To: Turner Construction	n Compan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per detail 6/S1-5015 for the bottom flange connection plate please refer to sketches CD RFI # 069 SK1, SK2 & SK3.						e web extension per following location			
					1) Location h	ighlighted in SK	1 in the RFI		
	or field welding the web ex s a problem at the noted lead r locations.				2) At GLs 6/0	2.3 and 6/F.7			
Confirm the	web extension plate may	he typically omitted			3) At GLs 9.9	/C.3 and 9.9/F.7	7		
	mension shown as 1 3/4"				4) At GLs 20.	1/C.3 and 20.1/	F.7		
							ng into moment fra 33.2 (Total 8 brad		
					at locations li	•	ch SKS-0290 (atta 4 above. Braces a not required.	,	
-0825	SSS - W30 Be	am to Girder where bf exc	ceeds 22	Closed	10/11/2013	10/21/2013	10/17/2013	Potential	
From: Webc	or Construction LP	Robert Kjome	To: Turner Construction	n Compan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
beam frame	along grid line 20.1/E.6 v s into the MF girder pleas 76 SK1 & SK2 for items 1	se refer to sketches			the two W30x Frame beam	ouble angle conr <108 beams that at GL 20.1. For	ection per 1/S1-5 frame into the Mathe four shear pland W40x149 bear pland	oment ite	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

plate panels welded to the solder piles, depending on

699 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						_			
supply a typion when the "bf" 2) Please not	pes not apply as "bf" exce cal connection for a round " exceeds 22 (work with it te that if a full depth shea n extension plate per 6/S	d circle on plans em 2 on SK2) ir plate is used it will				specified and wher than 22".	ear plate connect nere support bear		
0826	SSS - Oversize	ed Hole Size in Web Stiffeners		Closed	10/14/2013	10/24/2013	10/22/2013	Potentiall	ly 🗌
From: Webco	or Construction LP	Robert Kjome	To: Turner Construction Compar	Garv Krutsch	Answered By	√ :Adamson Asso	ociates, Inc Geor	ae Metzaer	- Ш
o-Author:		,						9	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
the web stiffe	rm it is acceptable to over eners to the bolt diameter :1-5019 and CD RFI 055	+ 3/16". Reference			Use of oversize not acceptable	ze bolt holes in t	his drag connecti	on is	
0827	BGP - Clarifica	ation to Galvanized Steel Plate	at Seismic Joint in Area 16	Closed	10/14/2013	10/24/2013	10/28/2013	Potential	ly
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Compar	Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author: Shimm	nick Construction Compar	ny, Inc Scott Bunnell							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer 4/S1-3010.	to attached drawing detai	il 7/A1-8881 and			George Metzo 10/24/2013 RESPONSE:				
5/8" x 6' galva and soldier p	8881 (and other details on anized steel plate secure iles. This plate does not tails for the seismic joint i	d to the mud slab appear on the			AAI Response 1. The 5/8" mat slab (hori to serve as re	e: thk x 6' wide pla izontal) and at th latively smooth	tes were provided ne shoring wall (ve backing for the se	ertical) eismic	
galvanized st	xplain the functionality and teel plate shown in 7/A1-8 the seismic joint assemb	3881 and 1/A1-8881			slab and shor the neoprene 2. The horiz	ing wall. It also p gasket seal whe contal plates are	x moves against to provides a flat sur en pressed agains mechanically and lab with 3/8" expa	face for st it. chored	
welding and on the "5/8" TH	ovide revised structural d design criteria required to K x 6' wide galv steel plate eam, respectively.	attach and secure			anchors (with 3" depending The vertical p	the shortest min on the manufacture are either:	nimum embed 2 5 turer) spaced at 8 seam/slot welded vith total width of 0	5/8" or 3" min. to the	



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

700 of 1053

Time:

10:53 AM 30100

				•		-			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						on of installed a	djacent soldier pil ish.	es.	
					TT Response This plate is n drawings.		how on the structu	ıral	
T-0828	SSS - Location	s for Scratch Plate for BF	RBs	Closed	10/14/2013	10/14/2013	10/17/2013	Potentiall	
From	: Webcor Construction LP	Robert Kjome	To: Turner Construction Con	npan Gary Krutsch	Answered By	:Adamson Ass	ociates, Inc Georg	je Metzger	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug			
prop	se reference the sketch attached a osed scratch plate end locations a tions are acceptable.				acceptable wi scratch plate of the BRBs in	from the BRB in	dification: Move the Detail H/S1-4150 50. Mount scratch	to one	
T-0829	BSE - Voids Ad	cross Top of CDSM Wall o	on the West side of Zone 1	Closed	10/15/2013	10/25/2013	10/21/2013	Potentiall	ly
From	: Webcor Construction LP	Robert Kjome	To: Turner Construction Con	npan Gary Krutsch	Answered By	Adamson Ass	ociates, Inc Georg	je Metzger	
Co-Author	:								
REQ	UEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Refe	rence Photos: attached				The voids do	not need to be f	illed at this time.		
CDS photo Arup mate	e are a number of voids that run at M wall on the West side of zone 1 os). During prior conversations be a there has been discussion of fillingerial. Please provide the material ared by the design team to fill these	(see attached tween W/O and ng these voids with and application							
T 0020	CCC T: T 7	T and TTT Dags Dists Av	acher Dad Lacetian Confirmation	Closed	40/45/2042	40/25/2042	40/24/2042	Detenti-II	
T-0830 Erom	SSS - Type T, T : Webcor Construction LP	Robert Kiome	nchor Rod Location Confirmation To: Turner Construction Con		10/15/2013	10/25/2013	10/21/2013	Potentiall	y



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

701 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
type TTT base are other deta	I-5051 provides location e plate anchor rods will iils throughout the plans	be installed. There that contradict the			rods informat	ion.	provide correct ar			
5051. For exa 10.1/G.3 as h detail; howeve	e plate anchor rod location imple: 7/S1-5051 shows aving a type TTT base per, 1/S1-3610 shows the par type T base plate and	s a column at gridline plate anchor rod c column at 10.1 and		 Type T anchor rod details are provided in Detail 3 & 5/S1-5051 (see the note stating "TYPE T thread bar anchor shown, for Type TTT threadbar anchor see 4/S1-5051, for TYPE II threadbar anchor see 6/S1-5051). 						
	m that detail 7/S1-5051 chor rod detail for each									
Please provid	e a type T base plate ar	nchor rod detail.								
-0831	BGP - Area 11	Clear Cover to the Vertical	Reinforcement on the Foundation \	Vall Closed	10/22/2013	11/12/2013	10/29/2013	Potential	ly 🗌	
From: Webcor	Construction LP	Michael Spillane	To: Turner Construction Compar	n Gary Krutsch	Answered B	y: Adamson Asso	ociates, Inc Geor	ge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Further to response to RFI T-609 this RFI shows the areas of foundation wall/embedded column in pour Area 11, on the north & south wall elevations which will have greater than 6" of clear cover to the vertical reinforcement for location plan see exhibit - A					ver between the seinforcement as	waterproofing sys presented in Exh				
foundation wa clear cover to	C depict the amount and alls which the will have g the vertical reinforceme 25 on the north elevatio	reater than 6" of ent in this case only								
	hows the thinning of the spacing due to CDSM									
waterproofing	m that the clear cover be system and the vertical ese locations is accepta	I reinforcement as								

10/24/2013



T-0834

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

11/05/2013 10:53 AM

30100

702 of 1053 Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor Const	ruction LP	Michael Spillane	To: Turner Construction Co	ompan Gary Krutsch	Answered B	y: Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Further to response to RFI T-609 this RFI shows the areas of foundation wall/embedded column in pour Area 12, on the north & south wall elevations which will have greater than 6" of clear cover to the vertical reinforcement for location plan see exhibit - A Exhibit - B & C depict the amount and location of the foundation walls which the will have greater than 6" of clear cover to the vertical reinforcement in this case only two pile numbers 237 & 238 on the north elevation has this issue. RFI T - 784 shows the thinning of the wall with the revised reinforcement spacing due to CDSM pile encroachment in Area 12. Please confirm that the clear cover between the waterproofing system and the vertical reinforcement as outlined at these locations is acceptable.				George Metzger 10/29/2013 RESPONSE: The clear cover between the waterproofing system and vertical reinforcement as presented in Exhibit C of this RFI is acceptable.					
waterproofing syster	n and the vertical ations is acceptab	reinforcement as	il Support	Closed	10/16/2013	10/26/2013	10/30/2013	Potential	
From: Webcor Const		Jackson Tukuafu	To: Turner Construction Co				ociates, Inc Georg		
Co-Author: Shimmick Con			Turnor Constitution Co	mpan Cary Radon		y -7 (damoon 7 (oc	loolates, mo Georg	go Motzgoi	
REQUEST:			SUGGESTION:		ANSWER:	Accept Suc	gestion:		
Please confirm the le embed dimension is drawing 4/S1-7630	2'-7", as shown ir				Note that the therefore the	ger th is confirmed. re is more than height of vertica	one size of HSS, al plate may vary.		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 703 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	cor Construction LP mick Construction Company	Jackson Tukuafu r, Inc Chris Williams	To: Turner Construction Compan	Gary Krutsch	Answered By	y: Adamson Ass	ociates, Inc Geor	ge Metzger	
slab and co structural st conflict with required ret lug and bloc limited to: - Typical M model) - B-68 Bea - Main cond - Column C model)	a rebar congestion model of plumn C2 at C/24.9. As is agreed shear lug portion of the nather teniforcing steel and with bar spacing. The rebar confickout that are present, including the second (plum) and the course slab (pink colored bars in microurse slab (pink colored bars).	oparent, the plate embed is in II not fit with licts with he shear de but are not plored bars in odel) rs in model) colored bars in	SUGGESTION:		plate/shear ke of the shear k steel column Spacing for th misc. beams	ey in the wrong of the seys are to be in as shown in det the slab rebars at (e.g., B71 at Gri	ems to orient the bedirection. The lon parallel to the we ails on Sheet S1-and the top rebars id C/2, B68 @ Gri htly to clear the sl	ng face b of the 5051. for the d	
	vide a solution that will provide the structu	ıral steel plate.	port Embed Clarifications	Closed	10/17/2013	10/27/2013	10/29/2013	Potential	
From: Webo	cor Construction LP mick Construction Company	Jackson Tukuafu	To: Turner Construction Compan				ociates, Inc Geor		'y
REQUEST: Please refe S1-3411, S 1. Please c on D1 of S1 S1-2251 (ne total embed) 2. Please c embeds) sh are located (notation in 3. Please p	erence attached drawings S1 1-3203 and S1-3204. Confirm the beam support and 1-3411 are located where shotation in red). There will be dis. Confirm the wall support angle own on detail D6/S1-3203 awhere shown on the notated	-2251, A1-7401, ligle/plate as shown own on drawing a a total of three le/plate (two total and D10/S1-3204 d drawing S1-2251	SUGGESTION:		ANSWER: George Metz(10/29/2013 RESPONE: 1. Confirmed. 2. Confirmed. 3. See attach		gestion:		
Please advi	ise.								



Co-Author: Shimmick Construction Company, Inc Ben Gordon

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

704 of 1053 11/05/2013 10:53 AM

Time: Job:

30100

Jackson Tukuafu y, Inc Ben Gordon 453.1 and attached lieu ofbending the e to weld two 1-1/8" e desired obtuse ds per detail 1 S1- an be welded to ponse T-0853 (this eference attached ations of embeds in	To: Turner Construction Compa	Open an Gary Krutsch	11/05/2013 Answered By ANSWER:	11/15/2013 /: Accept Sug	gestion:	Potentially
y, Inc Ben Gordon 453.1 and attached lieu ofbending the e to weld two 1-1/8" e desired obtuse ds per detail 1 S1- an be welded to ponse T-0853 (this eference attached ations of embeds in	·	n Gary Krutsch			gestion:	
lieu ofbending the e to weld two 1-1/8" e desired obtuse ds per detail 1 S1-an be welded to ponse T-0853 (this eference attached ations of embeds in	SUGGESTION:		ANSWER:	Accept Sug	gestion:	
lieu ofbending the e to weld two 1-1/8" e desired obtuse ds per detail 1 S1- an be welded to ponse T-0853 (this eference attached ations of embeds in	SUGGESTION:		ANSWER:	Accept Sug	gestion:	
lieu ofbending the e to weld two 1-1/8" e desired obtuse ds per detail 1 S1- an be welded to ponse T-0853 (this eference attached ations of embeds in						
e to weld two 1-1/8" e desired obtuse ds per detail 1 S1- an be welded to ponse T-0853 (this eference attached ations of embeds in						
an be welded to ponse T-0853 (this eference attached ations of embeds in						
		Closed	10/17/2013	10/27/2013	10/23/2013	Potentially
	10. Turner Construction Compa	in Gary Krutsch	Allswered by	-Adamson Asso	ociates, inc Geor	ge Metzger
,	SUGGESTION:		ANSWER:	Accept Sug	gestion:	
ils near grid line stle pile. The bars pile and provide an er plans.			10/22/2013 RESPONSE: Provide splice and that RFI's length may be	ger ed bent bar as in accompanying ereduced to 69"	ndicated in RFI T- g Sketch SKS028 ⁻ ". The total length	1. Lap of bent
o the interrupted ponse to RFI T-066; length which would rdau propose to not incoporate an offirm if this is			mat reinforcing	g shall be 60". 7	The bent bar may	be
	Jackson Tukuafu y, Inc Ben Gordon ils near grid line stle pile. The bars pile and provide an er plans. o the interrupted conse to RFI T-066; length which would rdau propose to not incoporate an offirm if this is	SUGGESTION: ills near grid line stle pile. The bars pile and provide an er plans. o the interrupted conse to RFI T-066; length which would dau propose to not incoporate an ifirm if this is	Jackson Tukuafu To: Turner Construction Compan Gary Krutsch SUGGESTION: SUGGESTION: SUGGESTION: The bars pile and provide an er plans. To: Turner Construction Compan Gary Krutsch SUGGESTION: SUGGESTION: The bars pile and provide an er plans. To: Turner Construction Compan Gary Krutsch SUGGESTION: SUGGESTION: The bars pile and provide an er plans. To the interrupted conse to RFI T-066; length which would redau propose to not incoporate an infirm if this is Suggestion: To the part of the par	Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Answered By Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Answered By ANSWER: George Metzg 10/22/2013 RESPONSE: Provide splice and provide an er plans. To: Turner Construction Compan Gary Krutsch Answered By Answered B	Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Answered By:Adamson Ass SUGGESTION: ANSWER: Accept Sug George Metzger 10/22/2013 RESPONSE: Provide spliced bent bar as in and that RFI's accompanying length may be reduced to 69 bar extending beyond the inte mat reinforcing shall be 60". rotated so that the tail clears reinforcing. To: Turner Construction Compan Gary Krutsch Answered By:Adamson Ass Accept Sug George Metzger 10/22/2013 RESPONSE: Provide spliced bent bar as in and that RFI's accompanying length may be reduced to 69 bar extending beyond the inte mat reinforcing shall be 60". rotated so that the tail clears reinforcing.	Jackson Tukuafu To: Turner Construction Compan Gary Krutsch SUGGESTION: ANSWER: Accept Suggestion: George Metzger 10/22/2013 RESPONSE: Provide spliced bent bar as indicated in RFI T- and that RFI's accompanying Sketch SKS028 length may be reduced to 69". The total length bar extending beyond the intersection with the mat reinforcing shall be 60". The bent bar may rotated so that the tail clears the layer of mat to reinforcing. To: Turner Construction Compan Gary Krutsch ANSWER: Accept Suggestion: George Metzger 10/22/2013 RESPONSE: Provide spliced bent bar as indicated in RFI T- and that RFI's accompanying Sketch SKS028 length may be reduced to 69". The total length bar extending beyond the intersection with the mat reinforcing shall be 60". The bent bar may rotated so that the tail clears the layer of mat to reinforcing.



which the slab opening dimension is referenced in a drawing that has yet to be issued for construction (A1-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

705 of 1053 11/05/2013

Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refe 2847.	r to attached drawing A1-2	824 through A1-							
plates refer However, th	ctural drawing note at the e to the structural drawings he current structural drawin ble misc metal angle detail	for details. g set do not provide							
typical misc include mou detail, misc	ride structural detail drawin metal elevator door sill su unting detail to concourse s metal details, and all pert detail the elevator door sill	pport angle. Please slab or topping slab inent information to							
-0838	BGP - Concou	rse Slab Opening Dimensio	on Clarification at GL C/13	Closed	10/17/2013	10/26/2013	10/25/2013	Potential	ly 🗌
From: Webo	or Construction LP	Jackson Tukuafu	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author: Shimr	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refe	r to attached drawing A1-2	844 and S1-2204.			George Metzg				
The slab on	ening east of GL 13 and n	orth of GLC shown			10/24/2013 RESPONSE:				
on drawing	A1-2844 appears to be in own on drawing S1-2204.				The Slab Ope	ning for future S et A1-2844 issu	T 402 is 91-1 ¼' led in ASI 107.	as	
Please conf x 8'-8 3/4".	irm the aforementioned sla	ab opening is 26'-3"							
-0838.1	BGP - Concou	rse Slab Opening Dimensio	on Clarification at GL C/13	Open	10/29/2013	11/08/2013		Potential	lv 🗆
	or Construction LP	Jackson Tukuafu	To: Turner Construction Compa	•	Answered By				,
Co-Author: Webo	or Construction LP	Jackson Tukuafu	Α	,	•				
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	nestion:		
	r to the attached drawing A	A1-2844, S1-2204				, tooopt oug			
WOJV is in	receipt of AAI's response	to RFI T-0838, in							



As per OSHA Standards Sub Part R Steel Erection 1926.756 (C)(1) When two structural members are sharing

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Per 01 10 40 1.6 C 2 - TJPA will not reply and will reject the RFI: "Questions relating to construction

706 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
2844, ASI 1	07).								
GL 13 and r	ride the dimensions for the north of GL C as located o wing A1-2844 dated 08/3	on the current							
T-0839	SSS - Bolt Sp	ecifications		Closed	10/18/2013	10/28/2013	10/30/2013	Potential	lly 🗌
From: Webc	or Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
strength bol bolts shall a 1. We propo field) 1-1/8"	Contract Drawings and Sp ts shall be A325, A490 & idditionally conform to AS ose to use TC bolts for all diameter or less (unless a bolts to be standard A325	A354 BD. All TC TM F1852 & F2280. connections (shop & galvanized). All			RFI refers to he will be pre-ten Specification of the specification of t	ne term "Standa nigh-strength bol sioned using ac Section 05 10 00 ne case, please ification. Respo	ord AXXX" used in the set of the	ds that ds per han TC). I with	
2. All bolts 1	1-1/4" to 1-1/2" diameter t	o be standard A490.				ed in Specification	on Section 05 10	00 -	
3. All bolts la A354 BD	arger than 1-1/2" diamete	er to be standard			specification s	shall be as indica	ated in the const acceptable for ga		
Please conf	irm this is acceptable.					A490 is acceptab	ole in this diamet	ter	
					3.) Standard A range.	A354BD is accep	otable in this dia	neter	
T-0840	SSS - Means	& Methods - Erection Devices		Closed	10/21/2013	10/31/2013	10/23/2013	Potential	lly
From: Webc	or Construction LP	Robert Kjome	To: Turner Construction Compa	an Gary Krutsch	Answered By	Turner Constru	ction Comp Stac	y Wilson	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		



The detail is shown at GL 7 & GL 8. Other locations are

similar.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 707 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
common connection holes, at least one bolt shall remain connected to the first member unless a shop or field attached seat or equivalent connection device is supplied with the member to prevent displacement. We propose the Means & Methods depicted in the attached sketch SK-1A to meet these OSHA requirements. Please advise if this is acceptable.						autions. (These	sequences, proc are the Contracto		
Please	e advise ii this is acceptable.								
-0841	SSS - Transfer	Girder Splice Conflict with	th Clip Angle Connection	Closed	10/18/2013	10/28/2013	10/24/2013	Potential	ly 🗌
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQU	JEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
are se transfe girder TR11, Please modifi	ted on sketches CD RFI 075 SK overal instances where the clip at a girder connection is in conflict web splice. This condition occur TR19.1, TR19.9, TR21, and TR are reference the sketches attached transfer girder web splice loc table to avoid conflict with the bection.	ngle at the beam to with the transfer at TR7, TR8, 24.			shown in sketo There is no sp (D/S1-4305) a	ches SK1 through lice specified of t TR24 betweer	s may be moved gh SK7 in this RF n the structural dr n gridlines E.2 and (8 is not acceptab	I. awings I D.8.	
0011110	0.011.								
-0842	SSS - Full Heig	ght Columns		Closed	10/18/2013	10/28/2013	10/24/2013	Potential	ly 🗌
From:	Webcor Construction LP	Robert Kjome	To: Turner Construction Com	pan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQU	IEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
colum extend have a Please	e refer to the attached drawing, s ns shown in the transverse fram d from the ground level to the roo a field splice located 4' above the e confirm that this field splice ma is acceptable to provide full heic	e elevation that of level typically e bus deck slab. ay be eliminated and			and below the	splice point are	column sections a dentical, it is olumn field splice.	above	



Sheet S-0007, General Note SC-4 states that weld sizes shown are considered effective weld sizes. Prequalified

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

708 of 1053 11/05/2013

Time: 10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	at a shop splice may be requir olling lengths.	ed due to limitations							
-0843	SSS - PJP We	lds at Roof Node to Brace	Beam	Closed	10/18/2013	10/28/2013	10/25/2013	Potential	ly 🗌
From: W	ebcor Construction LP	Robert Kjome	To: Turner Construction	on Compan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	rge Metzger	
Co-Author:									
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Detail" v node to specifie	ce is made to sheet S1-4205, which specifies a 1 ¾" effective brace beam. Sheet S1-5131, is a bevel of 2 3/8" x 45 degree question.	e weld from roof Detail 1, Side View F			effective weld acceptable to	size required for revise the bever g to the effective	2/S1-4205 is the or this joint. It is I size shown in 1, e weld size as re	/S1-	
shown a weld joi the effe	-0007, General Note SC-4 state considered effective weld state BTC-P4-GF (attached for rective weld size shall equal the izontal weld positions.	sizes. Prequalified eference) states that							
horizoni of 1 ³ / ₄ " accepta	velds are intended to be performal or flat position. Please confito equal the specified weld size ble and conforms to the requires 2010 D1.1 Detail BTC-P4-0	rirm that a bevel size te of 1 ¾" is rements of note SC-4							
-0844	SSS - PJP We	ld at Roof Node to EBF Li	nk Beam	Closed	10/18/2013	10/28/2013	10/24/2013	Potential	ly 🗌
From: W	ebcor Construction LP	Robert Kjome	To: Turner Construction	on Compan Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geor	rge Metzger	- 🗀
Co-Author:								- 0	
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Beam D roof noo Side Vie	ce is made to sheet S1-4205, letail" which specifies a 2 ¼" et le to EBF Link beam. Sheet S lew F specifies a bevel of 2 3/8 I joint area in question.	effective weld from 1-5131, Detail 2,			effective weld acceptable to	shown in Detail size required fo revise the beve g to the effectiv	 1/S1-4205 is the	/S1-	



Co-Author:

REQUEST:

With reference to the Grade 60 A615 Type T threaded

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

Confirmed that substituting Grade 60 Type T thread

ANSWER:

709 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

weld joint BTC-P4-GF (attached for reference) states that the effective weld size shall equal the bevel size for flat and horizontal weld positions. These welds are intended to be performed in the horizontal or flat position. Please confirm that a bevel size of 2 ½" to equal the specified weld size of 2 ½" is acceptable and conforms to the requirements of note SC-4 and AWS 2010 D1.1 Detail BTC-P4-GF attached. T-0845 SSS - Welding Type 61 Roof Nodes to Roof Beams Closed From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes shown are considered effective weld sizes. Prequalified
the effective weld size shall equal the bevel size for flat and horizontal weld positions. These welds are intended to be performed in the horizontal or flat position. Please confirm that a bevel size of 2 ½" to equal the specified weld size of 2 ½" is acceptable and conforms to the requirements of note SC-4 and AWS 2010 D1.1 Detail BTC-P4-GF attached. T-0845 SSS - Welding Type 61 Roof Nodes to Roof Beams Closed 10/21/2013 10/31/2013 11/05/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By:Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: According to the welding procedure indicated in this Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
of 2 ½" to equal the specified weld size of 2 ½" is acceptable and conforms to the requirements of note SC-4 and AWS 2010 D1.1 Detail BTC-P4-GF attached. T-0845 SSS - Welding Type 61 Roof Nodes to Roof Beams Closed 10/21/2013 10/31/2013 11/05/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates, Inc George Metzger Co-Author: REQUEST: SUGGESTION: Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
Co-Author: REQUEST: Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
REQUEST: Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes SUGGESTION: ANSWER: Accept Suggestion: According to the welding procedure indicated in this RFI, corresponding bevel size at this joint would also be 1".
Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
Reference Drawings: S1-4205, S1-5132, S-0007 Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
Reference is made to sheet S1-5132, Detail 1, Side View D which specifies a bevel of 1" x 45 degrees for the weld joint for Type 61 roof nodes to the roof beam. Sheet S-0007, General Note SC-4 states that weld sizes
weld joint BTC-P4-GF (attached for reference) states that the effective weld size shall equal the bevel size for flat and horizontal weld positions.
These welds are intended to be performed in the horizontal or flat position. Based on the information provided above, please provide the required effective weld size at the area in question and confirm the bevel size is to match the specified weld size.
T 2016
T-0846 SSS - Grade 60 A615 Threaded Anchor Rod Closed 10/21/2013 10/31/2013 10/23/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Adamson Associates. Inc. George Metzger

SUGGESTION:



Please refer to attached excerpt details 6/A1-8711 and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

710 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

George Metzger

lumbe	er Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
	anchor rod specified on detail 7/S1¿]50 request to substitute this material for th A615 anchor rod at no additional cost.				bar anchors v proposed is a		15 anchor rods as	3	
	Please confirm this is acceptable.								
-0847 F	SSS - Weld Pro	cess for Roof Nodes at Roof Robert Kjome	Beams To: Turner Construction Com	Closed	10/21/2013 Answered B	10/31/2013	10/28/2013 ociates, Inc. Georg	Potential	ly
Co-Au		Robert Rjoine	10. Turner Construction Con	ipan Gary Krutsch	Allowered D	y.Auamson Asso	ciales, inc Georg	je ivietzgei	
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
;	Please reference sheet S1-5131 Detail 2 Section F, and sheet S1-5132 Sectio proposing to perform the CJP welds from the CJP well and the CJP well	n D. OIW is om P3 to P4 using a ld (NGI ESW)" vs the use of			ESW) for the on prior appro	proposed location proposed location with the WPS with the proposed location proposed location with the proposed location proposed location with the proposed location proposed location with the proposed location	Electroslag Weld on is acceptable p and Welding proc repared in accord	ending edure	
1	Attached is a detailed narrative and support of this welding process including the followard of the followar	ving: , and Practices ant) ets (WPS)							
j	Upon conceptual approval of this proce job specific PQR/WPS data will be pro- review.								
	Please confirm that NGI ESW welding acceptable in this application.	process is							
-0848	RGP - Dowator	ng Well Pipe Alternate Route		Closed	10/21/2013	10/31/2013	10/31/2013	Potential	
	From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Com				ociates, Inc Georg		'y
Co-Au	thor: Shimmick Construction Company	, Inc Scott Bunnell		,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	
	REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

711 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
as prope attache	01. requesting to re-route all 2" double double all 2" double dou	and depicted in the re-route is to				ering system with I not be permitte			
removal Upon co line will with the poured and all co of the file	, wall waterproofing, rebar, an impletion of the use of the devibe cut below the sleeve, capp trestle block-out pour back. In place with the future mat an awall lifts. The line will also be hall wall lift.	ad form/pour/strip). watering system, the ed and grouted in The line will be ad concourse slabs be capped at the top							
	confirm the proposed dewater in the attached file is acceptab								
0849	BGP - Mat Sla	b Layer 3 Lap Splice Reloca	ation in Area 11 thru 16	Closed	10/21/2013	10/31/2013	10/23/2013	Potentia	illy
From: W	ebcor Construction LP	Jackson Tukuafu	To: Turner Construction C	ompan Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
o-Author: S	nimmick Construction Compar	ny, Inc Ben Gordon							
REQUE	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to drawing S1-2052. Due to limited access between the waterproofing and access trestle, Gerdau proposes to shorten the mat slab typical layer three (North-South) 67'-0" bars at Areas 11 through 16. This requires the lap splice location to be moved from the center of column line, as specified on Note 1 of the Mat Top Bar Notes in S1-2052, to the location shown in the attached Gerdau sketch SK-99. Please confirm the revised lap splice detail shown in Gerdau sketch SK-99 is acceptable.						le to move the r	einforcing splice hadicated in the Ri		

BGP - Request for 14 day Concrete Compressive Strength test on future mat slab | Closed

10/22/2013

11/01/2013

10/25/2013 Potentially

Answered By: Adamson Associates, Inc George Metzger

From: Webcor Construction LP Michael Spillane To: Turner Construction Compan Gary Krutsch

Co-Author:

T-0850



From: Webcor Construction LP

Co-Author:

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

712 of 1053 11/05/2013

Date: Time: Job:

Answered By: Adamson Associates, Inc George Metzger

e: 10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Per discussion with TT field Engineer and TJPA representatives, WOJV is asking for all future mat slab pours that one of the two concrete test cylinders allotted for the 28 day compressive strength test could be tested at 14 days instead, This information will be used to assess the concrete strength for the level D bracing removal. Please confirm if this would be acceptable.			SUGGESTION:		concrete test strength testin All future mat testing consis followed by (3 cylinder per so testing if requ	s acceptable to cylinders allotteng by the Specifical slab pours will sting of (1) cylinders for 5 et shall be retai	test (1) of the (2) d for 28 day comp fications. have a sample set der for 7, 14, and 2 days. (1) additioned in reserve for tumber of cylinders	for 8 days nal ater	
T-0852 From: Webcoo	SSS - Weld R	eturns at EBF Link Beams Robert Kjome	To: Turner Construction Co	Closed ompan Gary Krutsch	10/24/2013 Answered By	11/03/2013 / :Adamson Ass	10/25/2013 ociates, Inc Georg	Potential je Metzger	ly
Co-Author:									
REQUEST: Detail 3 on sheet S1-4205 indicates the weld requirements from the underside of the EBF link beam (28" W) to the roof node (24" W). Detail 3 requires a 3 ½" reinforcing weld to be returned (boxing) 6" at each interior corner of the welded roof node. The distance from the roof node to the edge of the girder flange is only 2" on each side based on the dimensions noted above (reference drawings attached).			SUGGESTION:		the 6 inch retu	urns provided th	gestion: nch reinforcing fille nat welding pass is th thick region into		
longitudinal to as 1 ½" reinfo transverse to	m it is acceptable for the other direction of the EB orcing fillets, while the with girder flange remains attached detail showing the control of the control	F Beam to be made reld running at 3 ½" as specified.							
T-0853	SSS - Transfe	er Girder Field Splice		Closed	10/24/2013	11/03/2013	11/04/2013	Potential	ly 🗌

To: Turner Construction Compan Gary Krutsch



confirm it is acceptable to use a 1" gap between the girder

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 713 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST: In order to facilitate self-supporting erection of the transfer girders during temporary conditions prior to the completion of the field welded splice joints, please confirm it is acceptable to utilize a temporary connection plate that will bolt the two transfer girders together while the weld takes place, as shown on the attached sketches GS-1.0 and GS-2.0. The temporary connection plate will be removed and open holes will be permanently filled with A325 bolts.		SUGGESTION:	ANSWER: Accept Suggestion: Acceptable for the bolt diameter (1-1/8") and spacing (6") shown in sketches GS-1.0 and GS-2.0.					
-0854 SSS - Type 4 Dr	ag Connection (Y)		Closed	10/25/2013	11/04/2013	10/29/2013	Potential	lv \square
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Com				ociates, Inc. Georg		'y
Co-Author:	resort rijome	10. Turner Construction Con	ipair Gary Muiscri	Allowered by	Auamson Assi	ociates, inc Georg	ge Metzger	
REQUEST: For Type 4 Drag connection (Y) per det please refer to sketches CD RFI # 082 items 1 & 2 noted below. Note sample I 2402 near grids 2/C.3 shown on SK2. 1) See SK2 & SK3 and confirm this 18" locations noted as "Y" on plans as this exceedingly outside the supporting bea 2) Please clarify which plan drawings the	SK1 to SK3 for ocation is on S1- applies at all will place the bolts m profile.	SUGGESTION:		1/\$1-5019 for a 2b) At Second GL 2 and GL 3 per Detail 1/\$1 14 locations the these 8 location 1" outside of the RFI. Provi	Level: There as where Type 4-1-5019 are to be supporting gins, provide b se W30x99 flan	b = 18" per sched lrag connections. re 14 locations be -(Y) drag connect e provided. At 8 or rder is a W30x99. uch that the beam ge as indicated in e remaining 6 loca	etween ions of these At a end is SK3 of	
-0855 SSS - Double A	ngled Connection		Closed	10/25/2013	11/04/2013	10/29/2013	Potential	ly 🗌
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Com	npan Gary Krutsch	Answered By:	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
For the double angle connection at the per detail 12/S1-5010 please refer to sk SK1 for the following question. Based on the 3" bolt location from the following the skill below the skill be	etch CD RFI 085			the face of the	is acceptable to girder web and tween the bolt of	o use 1) 1" gap be I end of the beam centerline and the	and 2)	



note the bottom of the beam flange will be partially coped to clear the MC10 channels per the response to Webcor

RFI # T-0763 (SK RFI # 032).

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 714 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject		St	atus	Date Created	Date Required	Date Answered	Cost Impact	Proceed
web and t the beam.	he end of the beam with a 2	2" end distance on							
T-0856	SSS - Skewed	d Beam Connections	CI	osed	10/25/2013	11/04/2013	11/04/2013	Potentiall	у 🗌
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compan Gary K	rutsch	Answered By:	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
detail 7/S to 3 noted 1) Confirm 3/4" as sh marks. 2) Confirm beams sq 3) Confirm	ewed beam connections up	087 SK1 for items 1 y locate the bolts 2 er of shear plate end of the skewed shown. shear plates square	SUGGESTION:			ted to account	gestion:		
T-0857	SSS- Gusset	Plate Fouling W24 Beam	CI	osed	10/25/2013	11/04/2013	10/29/2013	Potentiall	у 🖂
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compan Gary K	rutsch	Answered By:	Adamson Asso	ociates, Inc Geo	rge Metzger	- Ш
Co-Author:									
perimeter MC10x41 the botton flanges as Please ve	T: -2602 to S1-2607 along the lines the gusset plates requal Link braces per detail 5/5 of of the revised beam size via noted on sketches CD RF rify the bottom of the W24 le gusset plate as an alternation.	uired for the S1-4205 are fouling W24x55 beam Il 089 SK1 & SK2. beam can be coped	SUGGESTION:		W24 beam as (stiffener) and	shown in SK-2 the double cha ch to 12 inch b	bottom flange of to clear the gussinnel.	set plate	



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

715 of 1053 11/05/2013

Time:

10:53 AM 30100

ANSWER:

JOINT VE	NTURE		30100 - Transl	oay Trans	sit Center	Project			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	etch SK1 to establish the gus rify the 8 3/8 to 12 bevel (sca ate.								
-0858	SSS - Framing	HSS Post & Bracing		Open	10/25/2013	11/04/2013		Potential	ly
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:			
Co-Author:									
REQUES1	Т:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference	e Drawings: S1-2303								
(member s	arify the details for the HSS i sizes, connections etc¿) as ming plans or elsewhere on	they are not defined							
-0859	SSS - Elevator	· Framing		Closed	10/25/2013	11/04/2013	10/30/2013	Potential	ly 🗌
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:Webcor Constr	uction LP Rob	ert Kjome	- Ш
Co-Author:									
REQUES1	Т:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
ASI 0106 pand clarify referenced	s 2, 3 & 4/S1-7108 and sectic please refer to sketches CD the discrepancy in framing d drawings. Note the elevato on ASI 0106 but a similar ve 'S1-7136.	RFI 106 SK1 & SK2 that is shown on the or vertical was			vertical HSS s extent of the s the vertical HS through the H The primary p to show eleva vertical HSS r	sections because section cut. Sec SS because the SS member in Surpose of the setor rail support finembers highlig vator rail suppor	how the highlighe they are beyon tion C/S1-7136 section is directled to the control of the contr	d the shows y cut lans7136 is s. The ure not	
-0860	BGP - Area 3 D	Orill and Epoxy Walls		Open	10/25/2013	11/04/2013		Potential	ly 🗌
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compan	Gary Krutsch	Answered By	:			

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

716 of 1053 11/05/2013

30100

Time:

10:53 AM Job:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
						Accept Sugg	restion:		
	ence: Contract Dwg. A1-2122 to aned sketch	A1-2123, and				Accept Sug	gestion.		
gridlin Septe acces and w attach additio opera basis.	r dowels were installed for future nes A-F/1-6 during Area 3 mat slaw that 7, 2013. Due to conflicts with soft the removal of Level C and walers, selected rebar areas as should be drawing will need to be cut at onal walls that are found to be buttons have begun will be analyzed. Please confirm it is acceptable to partition walls as shown on the a	b pour on th equipment D shoring struts own on the and removed. Any ocking access once d on an as needed o cut rebar dowels							
on an pilaste proce	as needed basis, with exception ers, then return to drill and bond a dures are complete. Scanning w	to columns and wall after bracing ill be included.							
on an pilaste procee	as needed basis, with exception ers, then return to drill and bond adures are complete. Scanning w	to columns and wall after bracing ill be included. Wall Thickness Change Cla		Open	10/28/2013 Answered Bv	11/07/2013		Potential	ly
on an pilaste proced	as needed basis, with exception ers, then return to drill and bond a dures are complete. Scanning w	to columns and wall after bracing ill be included. Wall Thickness Change Cla Jackson Tukuafu	arification in Area 8 & 11 To: Turner Construction Compar	-	10/28/2013 Answered By:	11/07/2013		Potential	ly 🗌
on an pilaste proced 7-0861 From: Co-Author: REQU	as needed basis, with exception ers, then return to drill and bond adures are complete. Scanning was BGP - Interior New Webcor Construction LP	to columns and wall after bracing ill be included. Wall Thickness Change Cla Jackson Tukuafu y, Inc Ben Gordon 055 and attached		-		11/07/2013 Accept Sugg	gestion:	Potential	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

717 of 1053

Time:

10:53 AM

30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Froi	m: Webcor Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered By	:Webcor Const	ruction LP Robe	ert Kjome	
Co-Autho	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ase reference detail 1/S1-5013 reged stiffener detail and confirm the fo				1.) Acceptable		- Ш		
týpi	Confirm it is acceptable to provide a ically at beams with 7/8" dia. bolts it distance noted by the "2db" dimer	n lieu of the 1 ¾"			2.) Confirmed				
dim	Confirm the stiffener width is to equinension, defined as [bf - tw]/2, thus buld read "2db min."								
-0863	SSS - Double A	Angled Connections at TP	G1 & TPG3	Open	10/28/2013	11/07/2013		Potential	ly 🗀
Fro	m: Webcor Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered By	/ :			
Co-Autho	or:			, ,					
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
501 420 ske	the double angle beam connection to into the TPG1 & TPG3 roof girde to are problematic due to the thick etches CD RFI 091 SK1 & SK2 for it posed modified connection.	ers on detail 1/S1- flanges. See							
the Tab	Confirm it is acceptable to reduce the connection angles to 1 1/4" per A.lole J3.4 in order to fit the connection arms at the TPG1 & TPG3 girders.	I.S.C.13th Edition							
as :	Confirm it is acceptable to cut the beshown when the connection angles am "k" area beyond A.I.S.C. allowal	encroach into the							
-0864		Column Connection at Ro		Closed	10/28/2013	11/07/2013	11/04/2013	Potential	ly
	m: Webcor Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered By	:Webcor Const	ruction LP Robe	ert Kjome	
Co-Autho	or:								
RE	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
cor	ference sheet S1-2606 for the BU banection at grids 31/D.4 and 31/E.6 ceptable to reduce the "Lev" dimens	. Please confirm it is			distance, Lev	`	0) and vertical bo tions at all BU56 e.	-	



Refer to details 7 & 8/S1-5010 regarding bending radius requirements for skewed beam connections. The radius

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

718 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Tranchay Transit Contar Project

				ransbay rrans	Date		Date	Coat	
Number	Subject			Status	Created	Date Required	Answered	Cost <u>Impact</u> F	rocee
3/S1-5011 to web we	from 5" to 2 ¾" in order to ld as indicated in CD RFI 0	o clear the BU flange 192 SK1 & SK2.							
	ot acceptable, please provi								
T-0865	SSS - Clarific	ations for Kicker Brace at	Ground Level	Open	10/28/2013	11/07/2013		Potentially	
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered By:				
Co-Author:									
REQUES1	Г:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
brace requ	er to detail 6/S1-5022 and uirements at ground level a o SK3 and in the items belo	s noted on CD RFI							
CD RFI 09 2) Supply plate. 3) Confirm (intended 14) Confirm the referer be deleted 5) Confirm 19.1, 24.9 plans. 6) Confirm grid line 16 7) Confirm	the alternate bracing conr 33 SK1 is acceptable. the weld size and length for the work point location independent to match S1-5015 details). The reference to S1-2304 need detail and the reference. detail 6/S1-5022 applies of & 27.1 on the Ground Level detail 6/S1-5022 is typical 5.9, similar to grid line 19.1 detail 6/S1-5022 is typical 7.1, similar to grid line 19.1	or brace angles to ½; dicated is acceptable should be added to ce to S1-2307 should only to grid lines 16.9, rel as referenced on I for all braces along I for all braces along							
T-0866 From: Web	SSS - Bendin	ng Radius at Skewed Beam Robert Kjome	Connections To: Turner Construction	Open Compan Gary Krutsch	10/28/2013 Answered By:	11/07/2013		Potentially	
Co-Author:			ramor condition	Compan Cary Mateon					
REQUES1	Γ:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Per details 1&2/S1-5016 refer to sketch CD RFI 056.1 SK1 and confirm it is acceptable to cope the beam as

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

719 of 1053 11/05/2013 10:53 AM

Time:

30100

20100 Transhay Transit Contar Project

			30100 - 11ai	isbay mans	sit Center i	roject			
lumber	Subject			Status	Date Created		ate nswered	Cost Impact I	Procee
	in CD RFI 095 SK2 is per A. terial). Please confirm it is a								
per this cr	iteria.								
-0867	SSS - W24 Sko	ewed Beam Connections a	at Grid 6.C.3	Open	10/28/2013	11/07/2013		Potentially	
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By:				
Co-Author:									
REQUEST	Т:		SUGGESTION:		ANSWER:	Accept Suggest	ion:		
portion of CD RFI 09 this beam portion of tight desig beam is no	rawing S1-2303 (CD RFI 09 the W24x68 running betwee 96 SK2 shows the tight design run connecting to TR6. Pleathe W24x68 beam can be eign requirements. If eliminating ot acceptable, please provide detail to TR6, as detail 8/S attion.	en GL C.3 and GL 6. gn requirements for ase advise if this liminated due to the ag this portion of the le an alternate							
-0868	SSS - Framing	Clarification for W21 Bea	ıms at Ground Level	Open	10/28/2013	11/07/2013		Potentially	
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By:				
Co-Author:									
REQUEST	Т:		SUGGESTION:		ANSWER:	Accept Suggest	ion:		
10.1 & 11 the noted	ne areas indicated on S1-23 and D & F (CD RFI 097 SK W21x50 beams are at top of the BU-WT's are not requir	1). Please confirm if steel elevation 19'-							
-0869	SSS - Coping	Brace Beam Bottom Flang	ge	Open	10/29/2013	11/08/2013		Potentially	
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By:				
Co-Author:									
REQUEST	Т:		SUGGESTION:		ANSWER:	Accept Suggest	ion:		



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

720 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed shown to be able to erect the beam with the double shear plates permenantly shop welded. The gap between the shear plates will be the beam web thickness, the doubler plate(s) + 1/16" ~ confirm. T-0870 SSS - Skewed Beam Connections 10/30/2013 10/30/2013 Open Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** For skewed beam connections per detail 8/S1-5011 please verify the skewed beams may be cut square with the flange clipped as shown on sketch CD RFI 088 SK1. T-0871 SSS - Type 4 Drag Connection Stiffener Clarification 10/30/2013 Open 11/09/2013 Potentially From: Webcor Construction LP Robert Kjome Answered By: To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference drawing S1-2303 and CD RFI 115 SK1 highlighting the W40x149 beam connection along grid line F, between grid lines 9.9 and 10.1. Per detail 1/S1-5019, the web stiffener plate is to be 31" long at each end. Due to the length of this beam, the web stiffeners will foul each other. This same condition occurs on S1-2303 along grid line D between 9.9 and 10.1. Please confirm it is acceptable to supply one continuous web stiffener plate at the two locations identified as indicated in CD RFI 115 SK2. T-0872 SSS - Drag Connection Clarification for Kicker Brace 10/30/2013 11/09/2013 Potentially Open From: Webcor Construction LP Robert Kjome Answered By:

To: Turner Construction Compan Gary Krutsch

ANSWER:

SUGGESTION:



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

721 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Pro	cee
Defense and descri	04 0000 as I OD 5					Accept Sug	ggestion:		
indicating the Wa This detail requir and bracing per	ng S1-2303 and CD F 40 beam connection t res a full height shear 5/S1-5015. (Referenc tion occurs on S1-230	o TR11 at Grid F.11. plate per 1/S1-5019 e CD RFI 116 SK2).							
kicker brace to the increase the gus	t is acceptable to conine 1 ½" full depth she set plate below the best provide an accepta	ear plate and earn to 1 ½" thick.							
-0873	BGP - Spandre	el Beam Modifications in Ar	ea 8	Open	10/30/2013	10/30/2013		Potentially	
From: Webcor Co	onstruction LP	Michael Spillane	To: Turner Constru	iction Compan Gary Krutsch	Answered By:				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	ggestion:		
proposed change for location plan Exhibit - B shows necessary to the elevations due to foundation wall d as well as typical beams. RFI T - 724 show	nse to RFI T-637 plea es to the spandrel bea see exhibit - A s the plan view of the spandrel beam on the othe revised reinforce due to encroachment of I cross sections of the ws the extent of the month and south	modification we north and south we ment width of the of the CDSM beams we revised spandrel codification to the							
Please confirm the locations is acce	hat this modification a ptable.	as outlined at these							
-0874	BGP - Spandre	el Beam Modifications in Ar	ea 9	Open	10/31/2013	11/10/2013		Potentially	
From: Webcor Co	onstruction LP	Michael Spillane	To: Turner Constru	iction Compan Gary Krutsch	Answered By:				_
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Date

Date

722 of 1053 11/05/2013

Time: Job:

Cost

10:53 AM 30100

30100 - Transbay Transit Center Project

Date

ımber	Subject		<u>s</u>	tatus	Created	Required	Answered	Impact	Procee
proposed change for location plan Exhibit - B shows necessary to the elevations due to foundation wall das well as typical beams. RFI T - 742 show foundation wall of 9.	the plan view of the spandrel beam on the the revised reinforce ue to encroachment cross sections of the state extent of the man the north and south that this modification at	modification ne north and south ement width of the of the CDSM beams e revised spandrel modification to the h elevations of Area							
0875	BGP- Trestle	oiles No 20 & 21 in comflict	with beams at Lower Concourse level C	pen	11/01/2013	11/11/2013		Potentiall	ly 🗌
From: Webcor Co	nstruction LP	Michael Spillane	To: Turner Construction Compan Gary H	Krutsch	Answered By:				
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Tomasetti on the that trestle pile n attached) are in opits on the lower	w and discussion wit trestle pile locations umbers 20 and 21 (s conflict with beams (I concourse slab elevans. F. The contractor is	, it has been noted ee sketches 34A) at the escalator ation between							

The contractor is to insure that the appropriate reinforcement lap splices are present between these concrete pours.

blockout a section of slab as shown on the sketch, this blockout section would then be infilled once the trestle pile

Please confirm if this option would be acceptable

11/11/2013

has been removed.



Page: Date:

Job:

723 of 1053 11/05/2013

Time:

10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

JOINT VEN	TURE		30100 - Trai	nsbay Trans	sit Center I	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	r Construction LP	Michael Spillane	To: Turner Construction Com	pan Gary Krutsch	Answered By:				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugge	estion:		
T-0877	SSS - Light Co	olumn Blockout at GL 23		Open	11/04/2013	11/14/2013		Potential	ly 🔲
From: Webco	r Construction LP	Robert Kjome	To: Turner Construction Com	ipan Gary Krutsch	Answered By:				
REQUEST:	etchs: SK1 and SK2		SUGGESTION:		ANSWER:	Accept Sugge	estion:		
3. Please cor supply the dir 4. Please cor plate to the e the dimension	ded shear keys as referentirm a 6"x6" corner clip in mensions as referenced offirm a 2" set back from the dge of stiffener plate is a not be oversize hole criterians.	s acceptable or in SK1 the edge of the base acceptable or supply							
T-0878	BGP - All of Lo	ower Concourse Slab Edge	Dimension Discrepancies	Open	11/04/2013	11/14/2013		Potential	ly
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By:				
Co-Author: Shimm	ick Construction Compar	ny, Inc Ben Gordon							
REQUEST: Please refer t	to similar RFI T-0838 and	d T-0838.1.	SUGGESTION:		ANSWER:	Accept Sugge	estion:		
through SI-22 for the slab o drawings con	I drawings for the lower of 207, framing plans) do no penings. Scaled dimensi flict with many of the dimeral slab edge plans (Al-2	ot include dimensions ions from these nensions provided on							
Please confir	attached for observed coments the dimensions slipplens at the slab opening	hown on the							



constructability concern with these embeds. A similar constructability concern was brought up in RFI T -0453.1,

member of such thickness is bent to achieve an angle other than that member's stock angle, it will structurally

stating that if an angle

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

724 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
T-0879	BGP - Elevato	or Opening Embed Conflicts	with Future Walls	Open	11/04/2013	11/14/2013		Potential	ly 🗌
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction C	Compan Gary Krutsch	Answered By:				
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugge	estion:		
2202 thru Al-220 are for reference	attached Detail4 on Sl 05 and Al-2207. The e Sl-2202 thru Sl-2205 Sl-7134, Sl-7136 and	following drawings 5 and SI-2207, SI-							
	no conflict exists betw I future walls highlight awings.								
T-0880	BGP - Recepta	acle Requirements at Elevat	or Pits Near GL 19/E and 20/0	G Open	11/04/2013	11/14/2013		Potential	ly 🔲
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction C	compan Gary Krutsch	Answered By:				
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugge	estion:		
Please refer to o	drawing E1-2024 and	E1-2025							
lines 19/E and 2	tor pits in the mat slat 20/G. The drawings E y receptacles being su this is correct.	1-2024 and E1-2025							
T-0881	BGP - Vehicle	Ramp Wall Embedded Sup	ports	Open	11/05/2013	11/15/2013		Potential	ly
From: Webcor C	Construction LP	Jackson Tukuafu	To: Turner Construction C	Compan Gary Krutsch	Answered By:				
Co-Author: Shimmick	Construction Compa	ny, Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugge	estion:		
detail10 S1-320 T-0835 and atta RFI Response T ramp wall inters angle. Where th embeds per deta	te attached detail6 S1-4, RFI Response T-04 tched SKA-2863. I-0835 confirmed that tects the foundation whis ramp wall intersect ail 6 on S1-3203 and CCI and its embed sup	453.1, RFI Response the vehicle bike all at a 97 degree s the foundation wall, detail 10 S 1-3204							



Please confirm it will installed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

725 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

			30100 - Halisbay Halish Center Project						
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
stress that n	nember.								
plates togeth Response T	onfirm it is acceptable to weld ner in order to achieve angle -0835. Reference SKA-2863 es required. Forthcoming sho ds.	prescribed in RFI for the acute and							
T-0882	BGP - Column Tio	e Change from T9 to T12		Open	11/05/2013	11/15/2013		Potential	ly 🗌
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By:				
Co-Author: Shimn	nick Construction Company,	Inc Ben Gordon							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer	to drawing S1-3304 to S1-33	306.							
column ties (135° bends	irm if it is acceptable to replace (90° or 135° bend on either eon both ends). See the attacurther details.	nd) with TI2 ties							
T-267	BSE - DI Installati	ion at First Street		Closed	11/29/2011	12/09/2011	12/13/2011	Potential	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By:	AECOM Techr	nical Service Eric	Zagol	
Co-Author: Balfou	r Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference R	RFI U-101, Sheet U-3021					eleted from RU	P due to unfores		
CB #501 fro However the surface wate	ponse U-101 dated 02-28-20 m the RUP contractor's scop ere has been no replacement er control system neither sugg	e of work. or adequate			to drain south CB at STA 4+2 completion of I	to existing CB a 20 to remain in RUP.	noff from adjacer at STA 4+20. Ex place and active	disting at	
BBII recomn	eplace the CB # 501. nends that this catch basin # nal design to control surface	· ·			BSE Contracto accordance wi		ermwater control ents.	on site	



Page: Date:

Job:

726 of 1053 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
-268	BSE - Rebar in	Secondary Shafts		Closed	12/08/2011	12/18/2011	12/12/2011	Potentia	lly
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction Compar	n Gary Krutsch	Answered By	/ :Arup	Kevi	in Clinch	
Co-Author:									
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	GT-2201, Installation Sequ	ence Note 5				in Note 5 on she	eet GT-2201, sin	ce the	
	ofirm the reinforcement in the last buttress				reinforcement	on has been exc shall be installed ows 15 and 16.	ed in the seconda	ary	
-474.1	BGP - Waterpr	oofing Micropile on Slope		Closed	05/02/2013	05/12/2013	05/03/2013	Potentia	lly 🗌
From: Web	cor Construction LP	Kody Cooper	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shim	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
manufactu detail for th	erence response to RFI# T- rer and installer will not provice in micropile located in the solvide a waterproofing detail	vide a waterproofing loped sump pits.			contract drawi	ings and specifi	to RFI T-0519, the cations cover the ng system paran	e general	
use under	the conditions specified in F	RFI# T-0474.			submitted to comproposes to comproposes to compressions.	demonstrate the onform to the in	shop drawings she way the CM/GC formation given at the contract documents.	; and the	
					please submit	t a shop drawing manufacturer's	74 previously dire g based on the recommendation		
-509	BGP - Orientat	ion of Protection Board		Closed	04/23/2013	05/03/2013	04/26/2013	Potentia	
From: Web	cor Construction LP	Kody Cooper	To: Turner Construction Compar	n Gary Krutsch	Answered By	Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author: Shim	mick Construction Compar	ny, Inc Ben Gordon							
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Specification: 07 12 10 - 3.				intended for p	tection board as rotection, but to	s specified. It is a serve as a subs		
This section states "Install Protection board on vertical surfaces with long dimension vertical and the polyethylene film side facing the soil/cement surfaces." Per the manufacturer's installation instructions, "the protection board will be installed length wise for easier handling during the fastening procedure." SCCI suggests installing				Protection boa the edges of t each pile. This	he boards will b s will provide a l	hen installed ver e butted and fasi ine of fasteners of	tened at on the		



RFI T - 628.1 shows the extent of the modification to the foundation wall on the north and south elevations of Area

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 727 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Numb	per	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	the protection board le instructions. Is this ac		ne manufacturer's			board will be	fastened on the te the installation	nstalled horizonta intermediate pile if the piles are to	which	
								ened to the CDSN e steel soldier pile		
T-701		SSS - Dimens	ion Clarification Required		Closed	08/29/2013	09/08/2013	08/30/2013	Potential	ly 🗍
	From: Webcor Constru	iction LP	Robert Kjome	To: Turner Construction	Compan Gary Krutsch	Answered B	y :Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Drawing: 1	/S1-5131						In this RFI is 2	6	
	Please see attached by 1 View D (Front View) center of the 8" radius	. Please provide				inches.				
T-719		BGP - Spandr	el Beam Modifications in Are	a 7	Void	09/11/2013	09/21/2013	09/16/2013	Potential	ly 🗌
	From: Webcor Constru	iction LP	Michael Spillane	To: Turner Construction	Compan Gary Krutsch	Answered B	y :Webcor Const	ruction LP Jack	son Tukuafu	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Documents	s: Exhibits A - B				See RFI T-07	' 19.			
	Further to response to proposed changes to for location plan see e	the spandrel be	ase find attached ams in pour Area 7							
	Exhibit - B shows the necessary to the span elevations due to the foundation wall due to as well as typical cros beams.	drel beam on the evised reinforce encroachment	ne north and south nement width of the of the CDSM beams							



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

728 of 1053

30100

Time:

11/05/2013 10:53 AM

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed 7. Please confirm that this modification as outlined at this location is acceptable. TG03.00-0001 TG03 Question 0001 - E & O Insurance Closed 08/04/2010 08/18/2010 08/24/2010 Potentially From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Answered By: Webcor Construction LP Joanne Filipas Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference Exhibit A. 2.A & 4.F A. The insurance requirements for this scope of work are as described in Exhibit A, Section VI. Insurance A. Confirm \$25,000 dollar policy is required. Conflicts w/ Requirements. 16.4 (page 11) of the LONG FORM SUBCONTRACT document. However, 16.9 says more stringent of B. 4.F of Exhibit A, Section VI. Insurance requirements apply. Requirements was revised in Addendum 2 stating the professional liability insurance maintenance period will B. Confirm duration of E & O insurance. EXB-A Section be for a period of 3 years beyond the Contract Final 4.F states insurance shall be maintained "...10 years Completion. beyond the Contract Final Completion Date..." Considering the internal bracing, trestle, and bridges are temporary shouldn't the policy only apply when the system is in use. Once removed (street level construction complete), the liability should shift to the permanent structure's design team as the station superstructure is erected. Taken literally, this could require the E & O maintained 17 years (7 years of construction + 10 years beyond). Submitted by Charles M. Gardner Kiewitt Infrastructure West Co. 08/03/2010 TG03.00-0002 TG03 Question 0002 - BIM Closed 08/10/2010 08/17/2010 08/13/2010 Potentially From: Webcor/Obayashi Joint Venture Manuel Saldana Answered By: Webcor/Obayashi Joint Ve Manuel Saldana To: Turner Construction Compan Daphne Faulkner

ANSWER:

Accept Suggestion:

SUGGESTION:



systems are noted that they may remain in the permanent

mat slab once the temporary structures are removed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcorlobayasın John Ventüre

Page: Date:

construction of the columns, walls, elevator pits, etc. The contract documents for other work to be issued in

729 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Reference Project Bi A. Confirm that BIM construction docume	modeling is only a re	equirement for			Confirmed. Answered by 08/13/2010	Webcor / Obaya	ashi		
presentation. Submitted by Charle Kiewit Infrastruture V 08/03/2010					TG03 Questic Posted 08/23	on & Answer Pos /2010	st #1		
TG03.00-0003		003 - Electronic Drawing	•	Closed	08/10/2010	08/17/2010	08/23/2010	Potential	ly
From: Webcor/Obaya Co-Author:	ashi Joint Venture	Manuel Saldana	To: Turner Construction Con	npan Daphne Faulkner	Answered B	:Adamson Asso	ociates, Inc Geor	ge Metzger	
REQUEST: Reference: N/A A. Can Revit or Auto to accelerate pre-bid Terminal Architectural plans and sections of B. Can PDF Version for downloading? Submitted by Charle Kiewit Infrastructure 08/03/2010	design of systems (I al and Structural Drav nly. Details not nece as of the drawings be s m. Gardner	Permanent wings). Floor essary.	SUGGESTION:		specification Addendum 1. Answered by Adamson Ass 08/20/2010	section 00 08 07 George Metzger	ctronic document included with	s. See	
TG03.00-0004 From: Webcor/Obaya Co-Author:		004 - Deep Foundations Manuel Saldana	To: Turner Construction Con	Closed npan Daphne Faulkner	08/10/2010 Answered B	08/17/2010 y:Webcor Consti	09/08/2010 ruction LP Mich	Potential ael Constabl	
REQUEST: Reference Exhibit A,		oundation	SUGGESTION:		can bae place		ng shoring wall s ns determined by		



TG03.00-0006

From: Webcor/Obayashi Joint Venture

TG03 Question 0006 - Temporary Bridge

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

730 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

08/10/2010

08/17/2010

Answered By:Transbay PMPC

08/23/2010

Potentially

Alfred Lau

Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
What is the criteria for locating these ite interfere with permanent foundatoin sys mat slab reinforcing, installation of colur similar? Will deisgn team provide a "stazone" type of instruction or plan related permanent building columns, tie downs, and other special regions of the mat?	tem by interrupting nn base plates or ay clear" or "no fly to proximity to			around the pir the mat slab (the BSE pack 2. Micropiles accordance w 2024. Minor o	n piles, where pinthis work is not a age). are to be locate ith the typical lage is leviation in locate.	waterproofing deta n piles penetrate a part of the scop d, in general, in yout shown on St ion will hvae only	through e for neet S1-	
B. See also Page A3-3 of Exhibit A, las Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/03/2010	t item.			design team v layout shop dr on S1-2024, th the locations of contractor. 3. Trestle piles	will address after awings from te ne micropile corp of the micropiles as: Trestle piles	einforcement, whing receiving micropy contractor. Per nutractor shall coord with the shoring are to be located	ile ote C dinate and	
				review. Trestl		and submitted fo shall be coordina contractor.		
TG03.00-0005 TG03 Question ()005 - Temporary Bridge		Closed	review. Trestl	e pile locations	shall be coordina		
	0005 - Temporary Bridge Manuel Saldana	To: Turner Construction Compan D		review. Trestl pin piles and r	e pile locations nicropiles by the 08/17/2010	shall be coordina e contractor. 09/08/2010	ted with Potential	
TG03.00-0005 TG03 Question of From: Webcor/Obayashi Joint Venture Co-Author:	. , ,	To: Turner Construction Compan D		review. Trestl pin piles and r	e pile locations nicropiles by the 08/17/2010	shall be coordina e contractor.	ted with Potential	
From: Webcor/Obayashi Joint Venture	. , ,	To: Turner Construction Compan Dan SUGGESTION:		review. Trestl pin piles and r	e pile locations nicropiles by the 08/17/2010	shall be coordina e contractor. 09/08/2010 action Comr Daph	ted with Potential	
From: Webcor/Obayashi Joint Venture Co-Author:	Manuel Saldana -006 nimum clear s, trestle, and nder shows single stle approximately			o8/10/2010 Answered By ANSWER: The Engineer trestle shall de to interfere wit criteria related such that they	O8/17/2010 CTurner Construct Accept Sugar of Record for the shoring wall to placement of do not damage	shall be coordina e contractor. 09/08/2010 action Comr Daph	Potential ne Faulkner as not c res res	

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 731 of 1053 11/05/2013 10:53 AM

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
o-Author:							
					. \square		
REQU		SUGGESTION:	ANSWER:	Accept Sug	_		
A. Spr shall b Manito a hook Manito approx regard Please can the	ec. section 01 15 13, 1.2.A states that street bridges be designed to support a "Fully assembled bowce 999 crane weighing 500,000 lbs traveling w/out cload". Page A3-1 of Exhibit A states that the bowce 999 crane body and counterweight weighs kimately 250,000 lbs, and gives unclear informatoin ling the boom weight, and critical swing angle. The clarify if 500,000 lbs applies to street crossings or e same criteria for the trestle be applied to the street and bridges with respect to crane loads only.		500,000 lb ed design load r 1.3.A.1. Tres Exhibit A - At Answered by TJPA (PMPC 08/17/2010	quipment crossir requirements as atle design requir ttachment 3 appl v Alfred Lau	esigned for the stip ng, as well as othe defined in 01 53 1 ements per Bid M y to trestle design	r 3 - anual	
	itted by Charles M. Gardner Infrastructure West Co. 2010						
303.00-000	7 TG03 Question 0007 - West End Train B	ox Closed	08/10/2010	08/17/2010	08/12/2010	Potential	ily
From: \	Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkne	er Answered B	y:Adamson Ass	ociates, Inc Georg	ge Metzger	
o-Author:							
REQU Refere	IEST: ence Geotechnical Drawings	SUGGESTION:	ANSWER: This will be a	Accept Sug			
the we west to Geotec line sh packag design	th the Architectural and Structural drawings show est end of the train box curve continuing to the south of an extent greater than that shown on the chnical drawings. The structural drawings indicate a sowing the "extent of shoring wall in the bid ge". Please confirm that the shoring wall's finall in will follow the geometry shown in the architectural ructural drawings.		Adamson As 08/12/2010	George Metzge sociates, Inc.			

C. Please provide new workpoints & centerline

structural drawings.

B. Both the Architectural and Structural drawings show the south east of the train box curving once Beale street is reached. The Geotechnical drawings show the wall continuing straight along line J until it intersects the end wall. Please confirm that the shoring wall's finall design will follow the geometry shown in the architectural and



Concourse level and street level structural plans were not provided. Can these plans be made available so we can

more accurately plan for bracing and trestle installation

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

732 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

section A/S1-3201,

30100 - Transbay Transit Center Project									
lumber Subject	<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed			
dimensions of CDSM Wall based on the correct end conditions at both the east and west ends.									
Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/03/2010									
G03.00-0008 TG03 Question 0008 - Micropile	Closed	08/10/2010	08/17/2010	08/19/2010	No				
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	e Metzger				
Co-Author:									
REQUEST: Reference: Structural Drawings; tiedowns Questions: 1. 10" diameter tiedowns are shown in the structural drawings. Confirm this drawing is typical along the train box between grids A & J. 2. At the longer bays (51'), what is the tiedown configuration? 3. South of line J, where the train box curves at south west end, please provide a drawing indicating tiedown locations. Submitted by: Charles Gardner Kiewit Infrastructure West Co. 8/3/10.	SUGGESTION:	shown on S1- the quantity in contractor sta building struct layout for the Answered by Adamson Ass 08/19/2010	2024. The contradicated on S1-2 at of the shop dragging engineer with entire Trainbox. George Metzger	bay (42'-6" bay) is actor shall bid bas 024. Prior to the awing process, the Il provide a microp	ed on e base				
G03.00-0009 TG03 Question 0009 - Structural Drawings	Closed	08/10/2010	08/17/2010	08/23/2010	Potential	ily 🗌			
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	e Metzger				
Co-Author:									
REQUEST: Ref: Structural Drawings	SUGGESTION:	level plans an		urse level and stre	et				



Please confirm that the internal bracing is designed to adequatecy support the loading indicated on dwg GT-

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

733 of 1053 11/05/2013

Time:

10:53 AM

30100

JOINT VENTURE			30100 - Tran	sbay Trans	it Center	Project						
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed			
and removal? Submitted by: Charles Gardner Kiewit Infrastructure West Co. 8/3/10. plans A1-2000 through A1-2002 sections A1-5000, A1-6000, A1 6231, sections GT-1111, GT-1112 Answered by George Metzger Adamson Associates, Inc. 08/13/2010 TG03 Question & Answer Post							.1-6102, A1-6118	·				
TG03.00-0010 From: Webcor/Obay: Co-Author:	TG03 Question 00	010 - Bid Bond Manuel Saldana	To: Turner Construction Compa	Closed in Daphne Faulkner	08/04/2010 Answered B	08/18/2010 y: Webcor/Obaya	08/23/2010 ashi Joint V∉Manu	Potentia l el Saldana	ly			
REQUEST: Ref: Project Bidding Question:	Form for the trade su	ubcontractor	SUGGESTION:		issued in a fu Answered by 08/13/2010 Webcor / Oba	ture addendum.	Subcontractor washi Joint Venture					
TG03.00-0011 From: Webcor/Obaya		011 - Bid Bond Form Manuel Saldana	To: Turner Construction Compa	Closed In Daphne Faulkner			08/26/2010 Powers Au Sara	Potentia l Gigliotti	ly			
REQUEST: Ref: Spec sections 3	31 63 29, 31 56 13		SUGGESTION:	ANSWER: Accept Suggestion: Insurance policies cover the entity holding the policy.								



Page 15 Milestones state, "All submittals are to be

provided within 10 days of NTP #1." Please clarify the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

734 of 1053 11/05/2013

Time: Job:

This will be included in an upcoming Addendum #2.

10:53 AM 30100

30100 - Transbay Transit Center Project

				<u> </u>		<u> </u>			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
compliance with drilled shafts (31 13) is adequate Mission St. and	is installed (and top buttree the specifications, that the specifications, that the specifications, that the specifications, the specifications is installed to the specification of the specification	he design for the ing wall (31-56- nent of 301							
Submitted by: C Kiewit Infrastruc 8/3/10.									
TG03.00-0012	TG03 Question 0	012 - Electronic Drawing		Closed	08/10/2010	08/17/2010	08/23/2010	Potential	ly
From: Webcor/O	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Transbay PMF	C Gerr	y MacClellan	ıd
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: N/A					See response	to question 3.			
bidders with elec the Transbay Jo	or general contractor plea ctronic copies of the cont point Powers Authority Con pecifically those drawings	ract drawings for stract No. 08-04-			TJPA (PMPC) 08/17/2010	Gerry MacClella			
Trade Package Submitted by: K Shimmick Const 8/4/10	#TG03. elly Wigton	·			08/23/2010				
TG03.00-0013	TG03 Question 0	013 - Milestones Clarifica	ation	Closed	08/10/2010	08/17/2010	08/23/2010	Potential	ly 🗌
From: Webcor/O	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref: Exhibit A -	Trade Subcontractor Pac	kage				je 15, NTP #01	The last sentental schedule shall		
Question:					provided to Co	ontractor within	10 days of NTP #	#01."	



Specification section 01 15 70 3.2.A.12 states, " Work is

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

of-way that generates night noise. TJPA is responsible for night noise authorization for work done

on TJPA property.

735 of 1053 11/05/2013

Time:

Job:

10:53 AM 30100

JOHN VENTORE	30100 - Transbay Trans	it Center	Project			
Number Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
expectation ("All" submittals?), and how this milestone relates to Milestone NTP #2 Start Date. Submitted by: Charles Gardner Kiewit Infrastructure West Co. 8/4/10						
TG03.00-0014 TG03 Question 0014 - Demolition	Closed	08/10/2010	08/17/2010	08/23/2010	Potential	lly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	y: Transbay PMP	C Gerry	y MacClellan	nd
Co-Author:						
REQUEST: Ref: Exhibit A - Trade Subcontractor Package, D-1001, D2200 Question: Drawing D-1001 shows processed concrete rubble from demolition contract left within the existing basement to approximately existing ground elevation. Drawing D-2200 note 1 indicates depth and thickness may vary. For bidding purposes, please clarify: 1. That the amount of processed rubble will not exceed the sections as shown on D-1001, or ground elevation, and 2. That all material on-site by the demolition subcontractor will be certified free of all contaminants. Submitted by: Charles Gardner Kiewit Infrastructure West Co. 8/4/10	SUGGESTION:	concrete/mate ground elevat (Transbay Tra Ramps Demo 000) will reme ramps prior to demolition co Answered by TJPA (PMPC 08/18/2010	tion. 2) The Dem ansit Center - Ex olition Project - C ediate the Termir o placement of co ncrete/material. Gerry MacClella	ssed demolition will not exceed ex polition Contractor disting Terminal a contract No. 000-0 nal building and b rushed/processed	r nd 08-DM- ous	
TG03.00-0015 TG03 Question 0015 - Night Noise Permit From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	Closed To: Turner Construction Compan Daphne Faulkner	08/10/2010 Answered By	08/17/2010 y: Transbay Joint	08/18/2010 t Powers Au Gerry	Potential y MacClellan	
REQUEST: Ref: 01 15 70 3 2 A 12	SUGGESTION:	ANSWER:	Accept Sugg	gestion:	c right-	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

736 of 1053 11/05/2013

30100

Date: Time:

11/05/2013 10:53 AM

30100 - Transbay Transit Center Project

Number Subject Date Date Date Cost Status Created Required Answered Impact Proceed

restricted during the holiday moratorium (day after Thanksgiving to January 1. inclusive, 24 hours a day, seven days per week as set forth in the Blue Book by the SFMTA. Blue Book allows work at night within the restriction zone,"...as long as the proper night noise permit is obtained." Please confirm that DPW issues the night noise permit, what are the parameters, and that it will be obtainable so that we may at least work night shifts during this period.

Submitted by: Charles Gardner Kiewit Infrastructure West Co. 8/4/10

Please note that there is no specific threshold or criteria that qualifies for or would guarantee DPW night noise authorization; issuance of this authorization is solely at the discretion of DPW. However, DPW is cognizant that there are times when compelling reasons make it in the public; sinterest to allow for night noise and DPW reasonably grants night noise authorization.

Generally, the application for night noise authorization requires:

submission by a responsible party. In this case, the contractor would prepare the application form and provide it to TJPA to submit to DPW. the following information is needed for the permit: project description and address/location, including map and/or drawing compelling reasons for work at night rather than during the day description of night work to be accomplished description of all equipment used for night work, including associated noise level days/time of proposed night work contractor doing the night work contact phone for 24/7 response by both the contractor and project sponsor demonstration that those within a 150; radius have been notified at least 5 days in advance of the night noise work

TG03.00-0016 TG03 Question 0016 - Professional Liability Insurance

Closed

08/10/2010

08/17/2010

08/18/2010

Potentially

From: Webcor/Obayashi Joint Venture

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Answered By: Webcor Construction LP Joanne Filipas

Co-Author:

REQUEST: SUGGESTION:

ANSWER:

Accept Suggestion:



Co-Author:

REQUEST:

Reference specification 00 08 13, 1.8

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

737 of 1053 11/05/2013

Time:

10:53 AM 30100

ANSWER:

Accept Suggestion:

Administration, inspection and other fees associated

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Specification 08 (Insurance in the adeductable not to VI.2.b requires \$2\$250,000.		esional Liability each claim with a aim. Exhibit A e not to exceed			requirements the same as a this scope of Subcontracto have ¿or can by an insuran California¿ fo requirements CM/GC unde associated w work, and bee	included in the those required d work. All five pr rs responded in obtain a liability ce company lice r these limits. T are higher than r the prime contribute the design-bucause the work was required.	I Commercial Liab TG03 BSE packa uring prequalificate equalified Trade the affirmative the insurance policy ensed in the state hese insurance those required of ract due to the rist uild aspects of the will be performed payashi Joint Vent	ge are tion for at they issued of the k BSE by	
TG03.00-0017	TG03 Question 0	017 - Commercial Liabil Manuel Saldana	ity Insurance To: Turner Construction (Closed	08/10/2010	08/17/2010	08/18/2010 ruction LP Joan	Potentia	lly
Co-Author:	dyasın donn venture	Marider Galdaria	10. Turner Construction (Sompan Daprine Fadikher	Allowered D	y. Webcoi Const	ruction LF Joan	ne i ilipas	
Specification 08 (Insurance in the a Exhibit A, VI.1.B Q. Can you clarify held to an amount	of A, BI.1.B and 00 08 05 05, 1.2.B requires Commamount of \$25,000,000 requires \$100,000,000. fy why the Trade Subcout higher than the CM/Go	nercial Liability each occurence. ntractor would be	SUGGESTION:		ANSWER: Refer to resp	Accept Sug			
Submitted by Charles Kiewit Infrastruction 08/04/2010 TG03.00-0018		018 - Fees		Closed	08/10/2010	08/17/2010	08/18/2010	Potentia	
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction (Compan Daphne Faulkner	Answered By	:Transbay Join	t Powers Au Gerry	/ MacClellar	nd

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 738 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

Muni Code 2.4 requires,

"Each applicant shall submit and maintain with the Department a bond, cash deposit, or other security acceptable

to the Department securing the faithful performance of the obligations of the owner and its agent under any permit(s) to excavate and the compliance with all terms and conditions of this Article (the "deposit"). The deposit shall be in the sum of \$25,000 in favor of the "Department of Public Works, City and County of San Francisco."

Also there are Administration fees daily inspection fees and other "additional fees"

Please clarify which fees the Trade Subcontractor on this project will be required to make.

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/05/2010

with the permit process will be paid for by the Trade Contractor and reimbursed by the TJPA in accordance with Section 01 14 10/APA (See Addendum 2).

TG03.00-0019 TG03 Question 0019 - Wastewater Discharge Permit

Closed

08/17/2010

Answered By: Transbay PMPC

08/10/2010

Alfred Lau

Potentially

From: Webcor/Obayashi Joint Venture

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

SUGGESTION:

Co-Author:

REQUEST:

Reference specification 31 23 19, 1.7.C

Spec section 31 23 19 1.7.C requires Contractor to obtain a wastewater discharge permit from the City of San Francisco. Who pays for the cost of is charging into the local municipal waste water collection system? Who pays for the analytical testing?

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/05/2010

ANSWER:

08/10/2010

Accept Suggestion:

Cost for dewatering discharge into public sewer system shall be paid by TJPA. An allowance shall be defined as issued in an upcoming addendum. Analytical testing of dewatering water shall be performed by TJPA¿s representative.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 739 of 1053 11/05/2013

Date: Time: Job:

price. For example, if the total bid is \$1,000,000, and

the SBE goal is 24%, the Trade Subcontractor (if not

an SBE itself) must make good faith efforts to subcontract out at least \$240,000 to SBE

subcontractors.

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
TG03.00-0020	TG03 Question 00	20 - Buy America Requ	irements	Closed	08/10/2010	08/17/2010	08/13/2010	Potentially	у 🗌
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Transbay Joint	Powers Au Sara	a Gigliotti	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec section 00 08 Requirements provi ** This provision ap Agreements: constr agreements for the than \$100,000; and rolling stock valued requirement does n 08 13/APA 17 (b) fu Contractor is respon subcontractors are A) Please confirm " lower tier Subcontra Submitted by Charle Kiewit Infrastructure	plies only to the follow ruction agreements of acquisition of goods vagreements for the acat more than \$100,00 ot apply to lower tier Surther states that, "The nsible for ensuring that in compliance. This requirement does acts" es M. Gardner	ing types of any value; alued at more cquisition of 0. This ubcontracts. 00 Prime t lower tier			Specification 00 08 13/APA 17 incorrectly states that Buy America requirements do not apply to lower tiet Subcontractors. The certification requirement does not apply to lower tier Subcontractors, e.g., lower tiet Subcontractors do not have to each submit Buy America certifications. However, the Buy America requirement applies to the entire contract and the Prime Contractor is responsible for ensuring that low tier Subcontractors are in compliance, and the CM/G is requiring the certification from all Bidders (but not Bidders' subcontractors). A revised Specification we be issued in a forthcoming addendum.				
08/05/2010									
TG03.00-0021	TG03 Question 00	21 - SBE Program		Closed	08/10/2010	08/17/2010	08/13/2010	Potentially	у 🗌
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Transbay Joint	Powers Au Sara	a Gigliotti	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Exhibit	A Section IV Scope Se	ection D				erall SBE goal fo			
that "Trade Subcon participation of 24% Subcontractors bid 1.3B states that the Please clarify what	/ Scope Section D SBI tractor shall obtain a n of the total value of T value". Volume 1 sect SBE goal for this con the SBE requirements or for the BSE package	ninimum SBE rade ion 00 08 21 trat is 17%. are for the			goals for each BSE package calculated by county Bay Al number of SB NAICS code.	e CM/GC will set in individual pack is 24%. SBE pe determining the rea for a particul E firms in the sa SBE participatic alue of the Trade	age. The goal for ercentages are ratio of firms in ar NAICS code ame area for tha on is calculated	or the the nine- to the t same based	

Submitted by Kelly Turner Granite / CJA / NCC Joint Venture

subcontracted to others?

how the % is calculated. Is the SBE participation % based

on the total value of the Trade Subcontractors bid price or

is it based on the amount of the bid that has been



TG03.00-0024

From: Webcor/Obayashi Joint Venture

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

11/05/2013

30100

740 of 1053 Time:

10:53 AM

					Date	Date	Date	Cost	
lumber	Subject			Status	Created	Required	Answered	Impact	Procee
08/05/2010									
G03.00-0022	TG03 Question 00	022 - Bid Date		Closed	08/10/2010	08/17/2010	08/18/2010	Potential	ily 🗌
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Transbay Joint	Powers Au Gerr	y MacClellar	nd
REQUEST: Reference Exhibit A	sign required, we request Bid Date by six (6) volumes M. Gardner		SUGGESTION:		Answer: Accept Suggestion: A forthcoming Addendum will include a time extension of 4 weeks beyond the current bid date. The TJPA will continue to monitor contractor questions and the content of future addenda to be satisfied it allows a reasonable period to finalize contractor bids.				
G03.00-0023		23 - Geotechnical Reports		Closed	08/10/2010	08/17/2010	08/13/2010	Potential	ly
From: Webcor/Obaya Co-Author:	asni Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Transbay PMP	C Mark	: O'Dell	
Geotechnical Report Geotechnical Data R	Harvey	e "Final und. Volumes se upload V3 - or	SUGGESTION:		2,266 pages. broken-up into provided to W volumes for co Therefore the Volume 1 and copy version I	The pdf version 2 volumes. The bcor/Obayashi onvenience in hapdf version loca Volume 2 is equ	Report contains a located on the fe hard copy versus were separated andling. ted on the ftp situal to the 3-volutor/Obayashi's O	tp site is sions into 3 e as ne hard	
G03.00-0024	TG03 Question 00	024 - Ancillary Permits		Closed	08/10/2010	08/17/2010	08/13/2010	Potential	

To: Turner Construction Compan Daphne Faulkner

Answered By: Webcor Construction LP Joanne Filipas



surveyors who can provide \$25,000,000 of insurance. This

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webconobayasiii Joint Venture

Page: Date:

which can be obtained either by the Trade

741 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

30100 - Transbay Transit Center Project

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:							
REQUEST: Reference Project Bidding Manual (20/44) and specification 01 14 10/APA 1 Please clarify the definition of "ancillary permits". Request specific differentiation of responsibilities between Contractor/Trade Subcontractor/ TJPA. Perhaps a new responsibility matrix with a column for the Trade Subcontractor would help. Submitted by Charles M. Gardner Kiewit Infrasturcture West Co.	SUGGESTION:		ANSWER: Accept Suggestion: Revised Specification 01 14 10 / APA 1 will be provided in an upcoming Addendum. Trade Subcontractor is responsible to obtain all permits identified in the matrix as Contractor's responsibility, that are required for Trade Subcontractor's work.				
08/06/2010 TG03.00-0025 TG03 Question 0025 - Access Trestle From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan	Closed Daphne Faulkner	08/10/2010 Answered By	08/17/2010 :Webcor Const	08/16/2010	Potential e Filipas	lly
Co-Author: REQUEST: Reference: SL-001 Concept drawing for the access trestle shows a width of 48' in Zone 4 and 32' wide everywhere else. Are there minimum width requirements for the access trestle? If so, please provide details. Are there maximum width constraints? If so,please provide details. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/06/2010	SUGGESTION:		only. Since the of the site the for excavation, erection. See	ere is minimal a intent of the tre , shoring, struct Exhibit A, Attao	gestion: the drawing is concecess at the pering stle is to allow for a ural concrete and schment 3 for minimaximum requirements.	neter access steel num	
TG03.00-0026 TG03 Question 0026 - Surveyor Insurance From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	To: Turner Construction Compan	Closed Daphne Faulkner	08/10/2010 Answered By	08/17/2010 :Webcor Const	08/16/2010 ruction LP Joanne	Potential e Filipas	ily
REQUEST: Reference Exhibit A, Section VI Part 2A indicates the Trade Subcontractor must utilize	SUGGESTION:		\$25,000,000 ir	n professional li	gestion: on VI.2.A is to requability insurance were were	ith	



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 742 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

20100 Transhay Transit Contar Project

Monahau	Ocal to an			Otatus	Date Created	Date	Date	Cost	D
Number	Subject			<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Proceed
being able to bid higher bid costs. the insurance red Submitted by Ke	minate many survey eng on this work. The resulta Please consider this and quirements are for land s Ily Turner ICC Joint Venture		with respect to Subcontracto have to evide insurance couthe standard of the br>the standard of the standa	o land surveyors or or its retained once \$1,000,000 oring that scope requirements seubcontract. This	engineers. Howe s only, the Trade engineers should in professional li e of work, consist t forth in Article 1 s will be included	only ability ent with 6 of the			
TG03.00-0027	TG03 Question 00	027 - Temporary Street (Closures / Detours	Closed	08/10/2010	08/17/2010	08/13/2010	Potential	lly
From: Webcor Co	onstruction LP	Manuel Saldana	To: Turner Construction (Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
St, Fremont St, a can perform active elements, 2) den elements? If not, elements be perf	losures and/or temporary and Beale St be alowed s vities such as 1) installat nolition, 3) installation of how is the Owner propo- formed?	so the contractor ion of CDSM temporary street				70. This Section	it is specified in s in will be revised		
Submitted by Ke Granite / CJA / N 08/09/2010	lly Turner ICC Joint Venture								
TG03.00-0028	TG03 Question 00	028 - Trade Subcontract	or DBE Participation	Closed	08/10/2010	08/17/2010	08/13/2010	Potential	lly 🗌
From: Webcor/Ol	bayashi Joint Venture	Manuel Saldana	To: Turner Construction (Compan Daphne Faulkner	Answered By	:Transbay Join	t Powers Au Sara	Gigliotti	
Co-Author:						·			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Section 1.2B sta Percentage is no mandated chang	fication 00 08 21, Section tes "The DBE Availability to an enforceable goal un tes to the DBE program, to is not a condition of the	/ Advisory der the CalTrans and compliance			not an enforce advisory perc However, the inform the co	ne Specification eable goal and centage is not a cadvisory percerntractor of the po	the DBE percer compliance with to condition of the condition of the type of which is the condition of the type of which is the condition of the type of which is the condition of the condition o	he ontract. d to y of	



Section 00 08 05 contains specific insurance

requirements. These requirements differ materially from those contained in Exhibit A Section VI as well as section 16 of the proposed subcontract between Webcor /

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

743 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
					the contract, and the TJPA strongly encourages the use of DBE subcontractors. Bidders should also note that there is an SBE participation goal on this contract, and Bidders must demonstrate good faith efforts to meet the SBE goal as a condition of contract. Certified DBEs count as SBEs in TJPA's SBE Program.					
TG03.00-0029	TG03 Question 00	029 - Demolition Contract		Closed	08/10/2010	08/17/2010	08/18/2010	Potential	ly 🗌	
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	y: Transbay Join	t Powers Au Gerry	MacClellan	ıd	
Co-Author:										
REQUEST: Reference specifica	ation 00 00 35, section	1.2.A	SUGGESTION:		ANSWER: Confirmed; se		gestion:			
for removing and ab lead, or PCB ballas Please confirm the specific to the Trade	demolition contractor pating products contain t, or mercury containing reference to demolitic e Subcontractor perfo 000, Existing Termina t.	ining asbestos, ng lamps." on contractor is orming work under			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Submitted by Kelly Granite / CJA / NCC 08/09/2010										
TG03.00-0030	TG03 Question 0	030 - Trade Subcontractor	Incurance	Closed	08/10/2010	08/17/2010	08/18/2010	Potential	lv 🗆	
From: Webcor/Obay		Manuel Saldana	To: Turner Construction Co				ruction LP Joans		'y	
Co-Author:	Some vondio		rumor construction oc	Simpair Daprino i adiminei	,o o. oa D	J-11 CDCO1 CO1131	radion Li Joani	io i ilipas		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference specfication	tion 00 08 05		OGGEOTION.		Refer to Exhil		for TG03 Trade			



Exhibit A, II, "Key Dates for Bidding Process" of the Project Bidding Manual establishes the Bid Due Date as

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Please refer to the answer to question 47 for

information on the SBE program.

744 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

umber Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					- <u></u>	
Obayashi and the Trade Subcontractor. Please clarify what the insurance requirements are for the Trade Subcontractor.						
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/09/2010						
G03.00-0031 TG03 Question 0031 - Contaminated Gro	oundwater Closed	08/10/2010	08/17/2010	08/19/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	:Transbay Join	t Powers Au Gerry	y MacClellan	d
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference specification 01 35 65, sections 1.7.G & 1.7.H.		Settlement Tr	eatment			
Section 1.7H.2 describes construction of a "small-scale batch wastewater treatment system to remove dissolved contaminates" such as petroleum hydrocarbons, benzene, toluene, etc. Please verify that the treatment costs to		effluent to red		nent of dewatering ad prior to discha t items.		
handle contaminated groundwater will be paid as extra work by TJPA.		Chemical Tre	atment			
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/09/2010		contaminants section 1.7H.: if chemical ter contaminants with SFPUC p Treatment sho manner to bri	, as described in 2 will be conside sting shows eleve that cannot be permit requirementall be done in the	ent to removed di a specification 01 ered extra cost ite vated levels of dis brought into comp ents by settlemen e most cost effec ffluent into complet requirements.	35 65, ms only ssolved oliance t alone.	
G03.00-0032 TG03 Question 0032 - Extend Bid Date	Closed	08/10/2010	08/17/2010	08/13/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	:Transbay Join	t Powers Au Sara	Gigliotti	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 745 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

Sept. 14, 2010, 6 weeks from the date of bid package issuance.

Six weeks is an insufficient amount of time to adequately prepare a \$200M estimate and bid. We therefore request that the Bid Due Date be extended an additional 8 weeks for the following reasons

Design-Build

The SBE package includes major deisgn-build elements. The extent of the design work related to shoring, bracing, trestle, cross-street bridging and dewatering that the BSE Trade Subcontractor will be responsible for performing became fully apparent to the prequalified contractors only when the bid package was issued. Developing these required Trade Contractor designs far enough to allow accurate pricing to begin will take time.

Considering the magniute and location of the construction work, the risk accompanying the design is also extremely high. A memorandum of understanding that adequately addresses this risk must be negotiated with the Trade Subcontractor's Professional Engineer before design can even beign. This will take time.

Similarly, the Trade Subcontractor will likely enlist the services of an independent Professional Engineer to act as a peer reviewer to check the work of the Trade Subcontractor's principal engineer. Reconciliation of any differences identified during this review will take time.

Liquidated Damges

Liquidated damages associated with not meeting the CM/GC's schedule for Substantial Completion are extraordinarily high. It appears to us that the BSE Trade Subcontractor's time for substantial completion, i.e. 1,825 days following Notice to Proceed with pre-construction services, is highly interconnected with the work of other trade subcontractors and also contingent on their performance. If this is the case, it becomes very difficult to accurately assess risk of exposure to liquidated damages. The Joint Venture will need time to clarify with the CM/GC the relationship between the other trade subcontractors' work and the BSE Trade Subcontractor's substantial completion date. Then we can adequately

Response by Gerry MacClelland 8/18/2010

A forthcoming Addendum will include a time extension of 4 weeks beyond the current bid date. The TJPA will continue to monitor contractor questions and the content of future addenda to be satisfied it allows a reasonable period to finalize contractor bids.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

746 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

assess the risk resulting from this relationship, include it in our pricing and secure surety commitment.

Small Business Program

The Trade Subcontractor is required to achieve a minimum small business enterprise participation of 24% of its' total bid. Given the magnitude of the principal scopes of work required in the BSE package - shoring/bracing. excavation, drilling - most small businesses will neither be interested in participating nor qualified to do so. Time will be needed to identify a sufficient amount of reasonable scopes of work for small busines sparticipation and to work with interested small businesses, as necessary, prior to bid day to help them with insurance, bonding, shceduling, and performance issues.

Given the cirumstances outline above, Shimmick / Skanska / Traylor strongly urges the Transbay Joint Powers Authority and Webcor / Obayashi to postpone the bid date for the TG03 BSE Package until Nov. 9, 2010.

Submitted by Rich Zito Shimmick / Skanska / Traylor, a Joint Venture 08/09/2010

TG03.00-0033 TG03 Question 0033 - Staging Areas

From: Webcor/Obayashi Joint Venture Manuel Saldana

Co-Author:

REQUEST:

Reference Project Bid Manual IV, A.3.b.

Trade Subcontractor Requirements Q - Will Staging areas 9, 10, 12 etc. from the Existing Terminal Ramps & Demolition Plans be made available to the TG03 - BSE Trade Subcontractor?

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/09/2010

Closed

To: Turner Construction Compan Daphne Faulkner

SUGGESTION:

08/10/2010

08/17/2010

08/18/2010 Potentially

Answered By: Webcor Construction LP Joanne Filipas

ANSWER: Accept Suggestion:

Refer to Project Bidding Manual, Section IV.A.3 .b -Contractor will not provide areas for staging.



Co-Author:

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Webcor Construction LP Joanne Filipas

747 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG03.00-0034	TG03 Question 00	34 - Trade Coordination		Closed	08/10/2010	08/17/2010	08/16/2010	Potentia	lly
From: Webcor/Obaya	shi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	uction LP Joar	nne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Instruction to Bidder's Add. Note 27b & Project Bid Manual IV.A. 12.a Trade Subcontractor Requirements Q. Please confirm and/or clarify that the follow on Structure Trade Subcontractor will be responsible for their own access, or if it is intended to be provided under this Trade Subcontract. IFB Additional note 27 b indicates access will be made available to all Trade Subcontractors, but locations may need to change to suit BSE Contractor during course of Work. Also, Is it the intention of this Trade Subcontract to install all "leave-out" pourbacks? Elevators? Etc.? Please specify all Concrete work in addition to Mud Slab expected of this Trade Subcontract. Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/09/2010			Confirmed. This Trade Subcontractor shall access for follow on Trade Subcontractors. I intention for this Trade Subcontractor to instruct out or pour-backs, but locations of egress, a etc. must be coordinated with the CM/GC. To no other permanent concrete work in this paraxet except for the Mud Slab as indicated in the coordinated in the coordinated with the coordinated in the coordinated with the coordin				s not the I leave- cess, ere are kage,		
TG03.00-0035	TG03 Question 00	35 - Temporary Power		Closed	08/10/2010	08/17/2010	08/13/2010	Potentia	lly 🗌
From: Webcor/Obaya	shi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Transbay Joint	Powers Au Sara	Gigliotti	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Project Bio	d Manual IV.A. 17.a						as defined in the		
Trade Subcontractor Requirements Q Please confirm that the Owner/TJPA will pay the cost of Temporary Power consumption.					Manual Apper by the TJPA.	idix A, Section I	V.B.A.17, shall t	oe paid	
Submitted by Charles Kiewit Infrastructure V 08/09/2010									
TG03.00-0036	TG03 Question 00	36 - Unit Prices		Closed	08/10/2010	08/17/2010	08/18/2010	Potentia	lly

To: Turner Construction Compan Daphne Faulkner



Co-Author:

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Webcor Construction LP Joanne Filipas

748 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	iication 01 10 20 Section 01 10 20 Idule of unit prices.	SUGGESTION:		ANSWER: Section 01 10 Addendum.	Accept Sug	gestion:	e	
Q - These items : Prices found in E	ctor Requirements are not shown on the Schedule of Bid exhibit A. How is the contractor to at his applicable bid prices are?							
Submitted by Kel Granite / CJA / N 08/10/2010	lly Turner ICC Joint Venture							
TG03.00-0037	TG03 Question 0037 - Dewatering		Closed	08/10/2010	08/17/2010	08/16/2010	Potentia	lly
From: Webcor/Ob	payashi Joint Venture Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered B	y: Transbay PMF	PC Alfred	Lau	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Q - Section 31 23 duration that the for maintaining the details of how lor	ctor Requirements 3 19,Dewatering, is unclear regarding the Trade Subcontractor remains responsible ne dewatering system. Please provide ng the Trade Subcontractor is responsible s the system to be turned over to a follow			shall be paid the baseline This shall be revised and i 2. Upon com the dewaterir	by unit prices, w for bid defined ir reflected in 01 1 ssued with an up pletion of operat	e of dewatering sy vith 72 months defin Bid Manual Exhib 0 20/APA which wo ocoming Addendur ion and maintenan tructed by TJPA, oneible for the	ned as it A. ill be n.	
on Subcontractor	r? Is the dewatering system to be Frade Subcontractor for the BSE			deactivation		he system. See B	id Item	
Submitted by Kel Granite / CJA / N 08/10/2010	lly Turner ICC Joint Venture							
TG03.00-0038	TG03 Question 0038 - Temporary Power		Closed	08/17/2010	08/31/2010	08/13/2010	Potentia	lly

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 749 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Exhibit A Attachment 2				he layout for Sk	id 5 has not been		
Q - Logistics, drawing sheet SL-003 Skid Layout (5) has notation "NOT INCLUDED IN THIS SERVICE REQUEST" Q -Please confirm that the Owner/TJPA will be providing this Skid, typically per detail 4/SL-003			in the general	location shown	tor anticipates it w on the drawing; &E's final accepta		
Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/11/2010							
TG03.00-0039 TG03 Question 0039 - Access Trestle		Closed	08/11/2010	08/18/2010	08/13/2010	Potential	lly 🗌
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Com	ipan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Exhibit A - Attachment 3.1					nent on the Acces	ss	
Q - Please confirm access trestle shall be designed (similar to Temp Bridges)for a Manitowoc Crane 999 Series 2 which weigh's approximately 475,000 lbs			restle is spe	cified in Exhibit .	A, Attachment 3.		
Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/11/2010							
TG03.00-0040 TG03 Question 0040 - Access Trestle		Closed	08/11/2010	08/17/2010	08/16/2010	Potential	lly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference A3-2 and drawing sheet SL-001					ovided Contractor		
Q - Please confirm it is the intent of the drawings that the access trestle extends all the way eastward to col line 35+9.75 such that the Trade Subcontractor can access the trestle at the intersection of col line E and col line 35+9.75 (ie; at the east end cdsm wall).			14 19, 1.4.A.	to Parcel N and Webcor / Obaya	N', per Specificati	ION U I	



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

750 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Number	Subject	Status	i	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Submitted by Ke Venture 08/11/2	elly Turner Granite / CJA / NCC Joint							
venture 06/11/2	010							
TG03.00-0041	TG03 Question 0041 - Grid Spacing	Closed	t	08/11/2010	08/17/2010	08/17/2010	Potentiall	у 🗌
From: Webcor/O	bayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Fac	ulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug			
Reference draw	ing sheets GT-0100, S1-2022, & S1-2027			GT-0100 is co same dimensi		y structural bay is	s the	
This makes the 1,445'. Drawing	al drawings show grid spacing @42'-6". distance between Grid 1 & 35 equal to GT-0100 gives cordinates and a l62.54' between 1 & 35. Please clarify.							
Submitted by Sh	nad Gardner Balfour Beatty 08/11/2010							
TG03.00-0042	TG03 Question 0042 - Dimensions	Closed	t	08/11/2010	08/17/2010	08/17/2010	Potentiall	у 🗍
From: Webcor/O	bayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Fac	ulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference draw	ing sheet GT-2101			This will be co	rrected in an Ad	ddendum.		
	to the radius' center point for wall segment respond to the given radius. Please revise.							
Submitted by Sh	nad Gardner Balfour Beatty 08/11/2010							
TG03.00-0043	TG03 Question 0043 - Liquidated Damage	s Closed	 t	08/11/2010	08/17/2010	08/13/2010	Potentiall	у 🗌
From: Webcor/O	bayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Fac	ulkner	Answered By	Webcor Const	ruction LP Joan	ne Filipas	J
Co-Author:								

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 751 of 1053 11/05/2013

Time: Job:

Coct

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
Number	Subject	Status	Created	Required	Answered	_	Proceed
					-		

Reference Exhibit A Section 5 last paragraph references Specification 00 05 20 for resposibilities for liquidated damages.

Q - The liquidated damages described in 00 05 20 are based on a requirement for the completion of Trade package No. 1 in 1,825 calendar days beginning with Notice to Proceed with Pre-Construction Services. 1) Please provide the Notice to Proceed date for Pre-Construction Services. 2) Please advise how liquidated damages will be assessed for late completion of Zone 1, Zone 2, Zone 3, and Zone 4. Since any of these zones could potentially be late, it is not clear how the CM/GC will assess potential LD's.

Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/11/2010

Accept Suggestion:

Data

It is anticipated that NTPs will be issued as described in the IFB. Liquidated damages as well as Contractor¿s costs and those of other Trade Subcontractor¿s may be assessed if the late completion of any zone impacts the critical path of the project or affects the work of follow on Trade Subcontractors.

TG03 Question 0044 - Existing Utilities

From: Webcor/Obayashi Joint Venture Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Closed

08/11/2010 08/17/2010 08/18/2010 Potentially Answered By: Webcor Construction LP Joanne Filipas

Co-Author:

TG03.00-0044

REQUEST:

Reference drawing sheet D-2230

Q - Note #2 states that, unless otherwise specified, all utilities to be removed have been cut and capped. The only remaining utilities shown to be cut and capped are the sewer systems at First, Fremont, and Beale. We interpret this note to mean that, except for the sewer systems discussed, there are no other active utilities in the work zone (including in First St, Fremont St, and Beale). 1) Please confirm there are no other active utilities that the Trade Subcontractor has to either cut/cap or maintain in place. 2) If there are other utilities that have to be cut and capped, please provide specific details. 3) If there are other utilities that have to be maintained in place, please provide specific details.

Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/11/2010

SUGGESTION:

ANSWER: Accept Suggestion:

1) Protect in place active existing sanitary and combined sewers, manholes, catch basins and storm drain culverts as indicated on the plans. Protect in place NEW active sewers constructed as part of the Relocation of Utilities Project as shown on the plans. Coordinate with and protect in place NEW active utilities (PG&E and Verizon) constructed by the private utilities that will be supported by the temporary bridge. With the exception of the utilities indicated, all known active utilities will be demolished capped and/or plugged by the Relocation of Utilities Project at the demarcation line indicated in the plans. The Relocation of Utilities Project includes exploratory subsurface trench explorations in First, Fremont, Beale, Minna and Natoma streets at the demarcation line where the new CDSM wall crosses perpendicular to each street. Following subsurface investigations, all unknown (as well as known) active and inactive



Q - Paragraph 1.2B states a construction schedule is to be submitted within 15 days after bid package Notice to

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

752 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						ese locations by	emolished capped the Relocation of		
					2) Demolish a Francisco Sta	and plug existing andard Plans an	g sewers per City o d Specifications.	of San	
					3) See respor	nse to part 1.			
					Responded b	y David Fyfe(l	JRS Corporation)		
G03.00-0045	TG03 Question 00	045 - Escrow Documents		Closed	08/12/2010	08/18/2010	08/16/2010	Potential	lly 🔲
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Constructi	ion Compan Daphne Faulkner	Answered By	:Webcor Cons	truction LP Joann	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specific	cation 00 02 12, 1.3.A				Three working issued.	g days is correc	t. An Addendum w	ill be	
submitted within 3 opening. This con which states that e	A states escrow docum working days after the tradicts Project Bidding escrow documents are days after the bid openi	date of bid Manual page 15 to be submitted			issued.				
Submitted by Kelly Venture 08/11/201	y Turner Granite /CJA / 10	NCC Joint							
G03.00-0046	TG03 Question 00	046 - Construction Schedu	lle	Closed	08/12/2010	08/18/2010	08/20/2010	Potential	lly 🔲
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Constructi	ion Compan Daphne Faulkner	Answered By	:Webcor Cons	truction LP Joann	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specific	cation 01 13 10, 1.2.B						15 calendar days		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

Job:

753 of 1053

30100

Date: Time:

11/05/2013 10:53 AM

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered		Proceed

Proceed. This contradicts Exhibit A Section 5 which states the schedule is to be submitted within 15 calendar days of award. Please clarify.

Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/11/2010

TG03.00-0047 TG03 Question 0047 - SBE Program

From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner

SUGGESTION:

Co-Author:

REQUEST:

Reference Exhibit A, Part IV and specification 00 08 21, paragraph B, item D and paragraph 1.3, item B.

Q - Exhibit A, Part IV., Scope of the Package and Bid Item Information, Paragraph B., General Work, Item D., SBE Program states "Trade Subcontractor shall obtain a minimum SBE participation of 24% of the total value of Trade Subcontractor's bid value." However, Section 00 08 21, Disadvantaged & Small Business Enterprise and Equal Employment Opportunity/Employment Nondiscrimination Requirements, Paragraph 1.3 Small Business Enterprise (SBE) Program Requirements, Item B. states "The TJPA has established an SBE Utilization Goal of 17% overall for this Contract."

Are we correct in assuming that the SBE participation is to be 24% of our bid value for this contract (Contract No. 08-04-CMGC-000), but that the SBE Goal for the entire Transit Center Project is 17%?

Submitted by Gerald Brown Tutor-Salib Corporation 08/12/20101

From: Webcor/Obayashi Joint Venture

Closed

08/18/2010

08/13/2010

Potentially

Answered By: Transbay Joint Powers Au Sara Gigliotti

ANSWER:

08/12/2010

Accept Suggestion:

That assumption is correct. 17% is the overall SBE goal for the entire CM/GC contract. The CM/GC will set varying percentages for each individual package, and the goal for this package is 24%.

TG03.00-0048

TG03 Question 0048 - Instruction to Bidders

Closed

08/12/2010 08/18/2010

08/18/2010

Potentially

Answered By: Webcor Construction LP Joanne Filipas



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 754 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Ins	truction To Bidders, subparagraph D.					his will be remove		
Subparagraph 6. Statutory Bi Qualification S list on the Bidd Section) its cu	is made to Part III. Instruction to Bidders, D., Bidding Process and Procedures, Item idding Requirements, Subitem b) Bidders Statement (1) which states that "Bidder shall der's Qualification Statement (BQS in Forms arrent contractor license number" we can a form. Please provide.			the Project Bi	oding Manuai in	a future Addendo	um.	
Submitted by 08/12/2010	Gerald W. Brown Tutor-Saliba Corporation							
G03.00-0049	TG03 Question 0050 - Bid Due Date		Closed	08/12/2010	08/18/2010	08/13/2010	Potential	y
From: Webcor	Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Transbay Join	t Powers Au Sara	Gigliotti	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Part III Instruction to Bidders, Section V, Paragraph A, Item 3 Q - Reference is made to Part III. Instruction to Bidders, Section V., Webcor/Obayashi Bidding Forms, Paragraph A., Bidding Checklist (BCL), Item 3. which states "Each Bidder shall submit with its Bid the following forms, properly completed and executed." Following this statement there are various forms listed including "Escrow Agreement for Security Deposits in Lieu of Retention (Section 00 06 30)." Since this "Escrow Agreement for Security Deposits in Lieu of Retention" form states that - "pursuant to the construction contract entered into between the TJPA and Contractor for Transbay Transit Center in the amount of dated", we request that this form be among those forms submitted by the successful Trade Subcontractor after the Notice of Intent to Award and not with the bid form. Please advise.				be submitted	s granted. This with the Bid. Th I in a forthcomin	form is not require Instructions to ag addendum.	red to Bidders	
Submitted by 08/12/2010	Gerald W. Brown Tutor-Saliba Corporation							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Coct

755 of 1053 11/05/2013

Date: Time: Job:

Data

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber Subject			Status	Created	Required	Answered	Impact Prod	:eed	
TG03.00-0050 TG03 Question 0050 - Bid Due Date				Closed	08/12/2010	08/18/2010	08/18/2010	Potentially	
From: Webcor/Oba	yashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Transbay Joint	t Powers Au Gerr	y MacClelland	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		

Reference Transbay Terminal Center Bid Package TG03 Shoring, Buttress and Excavation (Cont.)

Q - We have started into our second week of intensive review of bid documents and drawings in which to grasp what is prescriptive work and what requires additional contractor design and scheduling in our bid proposal preparation. Having been involved in not only pre-bid contractor designed support-of-excavations but final design and construction of numerous deep supported excavations in urban environments in numerous cities in California, we look forward to working on this unique and challenging project. This project brings additional elements to be considered during design of support-of-excavation and traffic supported trestles that would not normally be considered in below street level construction. One, the width of the supported excavation at approximately one hundred and eighty L.F., will require at least two intermediate vertical piles to support the horizontal bracing levels. Second, the need to incorporate both longitudinal and transverse traffic trestle decking whose vertical support locations will add to the constraints and interference with the location of the horizontal bracing levels. Third, the phasing of the shoring and excavation will require various locations of bracing levels of the CDSM cut-off walls. Fourth, the tie-down anchors will have to be designed to meet project specifications. Fifth, the volume of information including as-builts and the myriad of geotechnical information provided will consume considerable time which our designers can ill afford not to digest the pertinent information. And lastly, the tremendous coordination and evaluation of the various key subcontractors scopes and proposals will be itself a considerable effort since various proprietary information will be provided to them for pricing Tutor-Saliba's in-house designs. For these various reasons, we strongly urge a postponement of at least four weeks to the current scheduled bid date of September 14th in which we can properly develop the most complete and competitive design concepts and pricing proposal to Webcor/Obayashi. It is very important that you evaluate this request in a timely manner in which we can allocate the limited time available to our engineering and estimating forces. Your timely written response is appreciated.

A forthcoming Addendum will include a time extension of 4 weeks beyond the current bid date. The TJPA will continue to monitor contractor questions and the content of future addenda to be satisfied it allows a reasonable period to finalize

contractor bids.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 756 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Submitted by Gerald W. Brown Tutor-Saliba Corporat 08/12/2010	ion						
G03.00-0051 TG03 Question 0051 - Elevat	ions	Closed	08/13/2010	08/19/2010	08/19/2010	Potentiall	
From: Webcor/Obayashi Joint Venture Manuel	Saldana To: Turner Construction Co	mpan Daphne Faulkner	Answered By	Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawing sheet GT-1100 and drawing table 4, 7 $\&$ 8	s 3,		an Addendum	to show the top	GT-1100 will be reported at the structure of the structur	as +4ft.	
Q - The lateral earth pressure diagram and tables 3& have the top street at elevation +4, but tables 7&8 sh elevation +6 Which is correct			elevation shall	note 10 on G1- I be determined	1111, the top str by the Contracto	ut)r.	
Submitted by Shad Gardner Balfour Beatty 08/13/201	0						
G03.00-0052 TG03 Question 0052 - Mud S	lab	Closed	08/16/2010	08/22/2010	08/17/2010	Potentiall	
From: Webcor/Obayashi Joint Venture Manuel	Saldana To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Adamson Ass	ociates, Inc Geo	rge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawing sheets S1-3003 & A1-8711.					003 (Addendum	#1). The	
Q - Detail 2/S1-3003 indicates a 3" Mud slab (SAD). I 2/A1-8711 indicates a 4" Mud Slab w/ 6"X6" Wire Me Please confirm that the Architectural detail governs, a that the BSE sope ends at the top of Mud Slab and W and up by others.	sh. and		waterproofing, slab and 5' thi mud slab reint drawings 2/A1	ck mat slab on orcing shown ir	rd, concrete prote top of the mud sl n the "for reference evised in an Adde	lab. The ce only"	
Submitted by Charles M. Gardner Kiewit Infrastructur West Co. 08/13/2010	е						



the properties under which such tiebacks would be

placed?

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

757 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
TG03.00-0053	TG03 Question 00	953 - Internal Bracing		Closed	08/16/2010	08/22/2010	08/18/2010	Potential	ly
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	nne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specif					Proof load and conflict.	d preload are no	ot the same. The	ere is no	
loaded to 125% of be either in confli- other than pre-loa is defined, but the	I states that primary stru of maximum design force ict with 1.5 O, or is referrading by jacking. We not e definition appears to be erstood by pre-load. Plea	e. This appears to ing to something e that proof load e similar to what			Responded by	y Fyfe, David (U	RS Corporation)		
Submitted by Cha West Co. 08/13/2	arles M. Gardner Kiewit 2010	infrastructure							
TG03.00-0054	TG03 Question 00	954 - Internal Bracing		Closed	08/16/2010	08/22/2010	08/18/2010	Potential	
From: Webcor/Ob	oayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawir	ng sheet GT-1110				Strut loads in	the build-out ca	ase can be deter	mined by	
	bracing struts or rakers a Please clarify required lo				GT-1110.	i based on the ii	normation provid	ieu on	
Submitted by Cha West Co. 08/13/2	arles M. Gardner Kiewit 2010	nfrastructure							
TG03.00-0055	TG03 Question 00	955 - Internal Bracing		Closed	08/16/2010	08/22/2010	08/26/2010	Potential	ly
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Transbay Joint	Powers Au Geri	y MacClellan	d
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawir	ng sheet GT-2101.				The property	is identified for p	roperty acquisiti	on.	
	tiebacks acceptable for state project planning on								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

758 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Submitted by C West Co. 08/13	harles M. Gardner Kiewit //2010	Infrastructure							
TG03.00-0056	TG03 Question 00	056 - Access Trestle Per	manent Structure	Closed	08/16/2010	08/22/2010	08/20/2010	Potential	ly 🗌
From: Webcor/C	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction	n Compan Daphne Faulkner	Answered B	y: Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Q - We note tha	Reference Exhibit A, Attachment 3 A. Q - We note that the access trestle is to be coordinated				Access Trest	t A, Attachment	3 "The level of that ame as the level		
permanent strue at the same lev connections. The	construction, not conflict cture except for penetratic el of the temporary bridge its would appear to requir	ons, and is to be s at the e that the trestle			B.(insert TT a	answer)			
structure sectio bridges. We als	the bottom of the ground f n, with built-up ramps to n to note that the permanen er at the street crossings t	natch the street t ground level							
with the limits o No guidance is	n the trestle deck further of f placement of the top lev- given regarding how the f will want to use the trestle	el bracing strut. uture Trade							
ground floor or top of trestle de	the superstructure. Please the superstructure. Please to be located to be located located to be located to be located to be located the trestle deck at	e clarify where the ed, and whether it							
level, such that of the ground flo	it could be used for sequence and superstructure. Is	ential construction there an upturned							

TG03.00-0057 TG03 Question 0057 - Access Trestle From: Webcor/Obayashi Joint Venture

West Co. 08/13/2010

crossings? . Schedule A on S1-3201 only indicates a 30"

Submitted by Charles M. Gardner Kiewit Infrastructure

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Closed

08/16/2010

08/22/2010

08/19/2010

Potentially

Answered By: Webcor Construction LP Joanne Filipas



Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Webcor Construction LP Joanne Filipas

759 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:								
REQUEST	:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	Exhibit A, Attachment 3			Confirmed.				
location on not the con reaches ou under load. accommod	oad is indicated to be considered at any the access trestle. Only total weight is given, centrated load that occurs when the crane t on one side or the other to the maximum Please confirm that the trestle is to ate the crane operating, not just standing or any location on the trestle.							
Submitted I West Co. 0	by Charles M. Gardner Kiewit Infrastructure 8/13/2010							
TG03.00-0058	TG03 Question 0058 - Internal Bracing	I	Closed	08/17/2010	08/31/2010	08/22/2010	Potential	ly 🗌
From: Web	cor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geor	rge Metzger	
Co-Author:								
REQUEST	:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST: Reference drawing sheet GT-1111 Legend. A. Q - Please help to clarify the strut and waler system stiffness requirements. Our initial interpretation and the associated analyses indicate that strut and waler sizes increase very significantly over what would be required by strength considerations alone. Please provide a sample calculation or procedure for determining stiffness for comparison with the values given in kip per foot, per foot of wall. B. Pre-loading will take out a portion of the axial shortening of the struts. We assume that it is appropriate to subtract out that deflection from the stiffness calculation. Please confirm. Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/13/2010				by the need to excavation. C struts and wal will be lower the ultimate stress	o control ground consequently the ers implied by the han would be ob	ffnesses are governovements outset operational street specified stiffrationed by factoried SSK-RFI TG	side the esses in nesses ng	
TG03.00-0059	TG03 Question 0059 - Demolition		Closed	08/16/2010	08/22/2010	08/23/2010	Potential	

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 760 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject	Status	Date Date Cost Created Required Answered Impact Proceed
Co-Author:		
REQUEST: Reference D-1076 (Existing Terminal Demo). Q - Existing Terminal Demolition Drawing D-1076 indicates (E) Cantilever Wall for 301 Mission St Building (60 story Tower) to be relocated by others. Please confirm this will be completed prior to the TG03 Work in this area. Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/13/2010	SUGGESTION:	ANSWER: Accept Suggestion: Confirmed.
G03.00-0060 TG03 Question 0060 - Milestones From: Webcor/Obayashi Joint Venture Manuel Saldan	Closed a To: Turner Construction Compan Daphne Faulk	08/16/2010 08/22/2010 08/23/2010 Potentially ner Answered By:Webcor Construction LP Joanne Filipas
Co-Author:		
REQUEST: Reference Exhibit A Section V Q - Milestones indicates the Trade Subcontractor is to provide all submittals within 10 days of NTP #1. This contradicts innumerable sections of the specifications which provide specific and reasonable time frames for submittals. It is not reasonable to expect all submittals to be delivered within 10 days of NTP #1. Please provide clarification on the contract requirements for delivery of submittals. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/13/2010	SUGGESTION:	ANSWER: Accept Suggestion: Refer to answer to TG0300-0013.
G03.00-0061 TG03 Question 0061 - Micropile	Closed	08/16/2010 08/22/2010 08/17/2010 Potentially
From: Webcor/Obayashi Joint Venture Manuel Saldan	a To: Turner Construction Compan Daphne Faulk	ner Answered By: Adamson Associates, Inc George Metzger
Co-Author:		
REQUEST: Reference specification 31 63 33, 2.1.A.2.	SUGGESTION:	ANSWER: Accept Suggestion: 145 psi grout pressure is a minimum requirement.
Q - Specification require micropile contractor to select		



applicable to performance test acceptance.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

761 of 1053 11/05/2013

Time:

10:53 AM 30100

installation means & method performance required by pro 2.1.A.2 dictates an installation least 145 psi. We request the it appears to conflict with object on the interpretation procedures. Submitted by Rob Jameson TG03.00-0062 From: Webcor/Obayashi Join Co-Author: REQUEST: Reference specification 32 60 Q - Section 3.7.B requires to method of drill hole support in By reference to Section 3.1. use of fluid containing bento stabilizers will not be permitted.	I E		30100 - Transbay Transit Center Project						
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
installation means & performance require 2.1.A.2 dictates an least 145 psi. We re it appears to conflic construction proceds Submitted by Rob J TG03.00-0062 From: Webcor/Obay Co-Author: REQUEST: Reference specification									
performance requi 2.1.A.2 dictates ar least 145 psi. We it appears to confli	red by project docume n installation method of request this sentence i ict with objective of cor	nts. Paragraph grout pressure at s removed since							
Submitted by Rob	Jameson Malcolm Dri	ling 08/13/2010							
TG03.00-0062	TG03 Question 0	062 - Micropile		Closed	08/17/2010	08/31/2010	08/17/2010	Potential	lly
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Con	npan Daphne Faulkner	Answered B	y :Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
Reference specific Q - Section 3.7.B i method of drill hole By reference to Se use of fluid contair stabilizers will not	requires temporary cas e support in caving or u ection 3.1.B & 3.7.B we ning bentonite, drilling in be permitted on the pro-	ing or other unstable ground. understand that nud or chemical pject.	SUGGESTION:		ANSWER: Confirmed. I not to be use	•	gestion: demical stabilizer	s are	
Submitted by Rob	Jameson Malcolm Dri	ling 08/13/2010							
From: Webcor/Oba	TG03 Question 0	063 - Micropile Manuel Saldana	To: Turner Construction Con	Closed npan Daphne Faulkner	08/16/2010 Answered B	08/22/2010 У: Adamson Asso	08/17/2010 ociates, Inc. Geor	Potential ge Metzger	ly
Reference specific Q - Performance to	est acceptance criteria	is defined in	SUGGESTION:			Accept Sugress load is spection 31 63 33	cified in table A of	f	
is not defined in pe proof test schedule	er "T" - maximum test lo erformance test schedu e we infer: T = 1.4 x 1.7 provide definition of "T	ule. By referral to 1 x Design Load			F=1.4 x F.S.	x Design Load			

F.S. = 2.0



extended and notify all bidders of the decision. If SST does not receive notification of a bid extension by Friday, Aug. 20, it may determine that it cannot cannot continue to

participate in this procurement.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 762 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Submitted by Ro	ob Jameson Malcolm Dril	ling 08/13/2010							
G03.00-0064	TG03 Question 00	064 - Micropile		Closed	08/16/2010	08/22/2010	08/17/2010	Potentiall	 y
From: Webcor/O	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference spec	ification 34 63 33, 3.5.D.	& A.					will be revised in		
centerline of pili location on draw reinforcing shall pile, I.E. toleran	e allowable construction t ng shall not more than 3" vings. We understand tha be not more than 0.5" fro ce is cumulative such tha 3.5" from plan centerline I	from indicated t centerline of om centerline of treinforcing					line of reinforcing h from centerline		
Submitted by Ro	ob Jameson Malcolm Dril	ling 08/13/2010							
G03.00-0065	TG03 Question 00	065 - Bid Due Date		Closed	08/17/2010	08/24/2010	08/18/2010	Potentiall	y
From: Webcor/O	Dbayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Transbay PMP	C Gerr	y MacClellan	d
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Our QBD 1 sent on 8/9/10 requested an 8-week extension to the bidding period and provided reasons for our request. We would like to reiterate our concern that it is not possible to provide an accurate design-build bid of this magnitude within the currently allocated 6-week period. (Bidder Name - hiden) requests that the CM/GC decide as soon as possible whether or not the bid period will be				of 4 weeks be continue to me content of futu	yond the curren onitor contractor	include a time ex t bid date. The T r questions and the se satisfied it allo contractor bids	TJPA will he		



Representative only (and not the Contractor) will sign the

manifestfor the generator of the waste."

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

hazardous waste generated by the Contractor working

at the Site, and the Contractor will be the generator of

763 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

	30100 - Halisbay Halis	Sit Center	Project			
umber Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Submitted by Rich Zito Shimmick / Skanska / Traylor Joint Venture (SST) 08/17/2010						
G03.00-0066 TG03 Question 0066 - Temporary Power From: Webcor/Obayashi Joint Venture Manuel Saldana	Closed To: Turner Construction Compan Daphne Faulkner	08/18/2010 Answered By	08/24/2010 Webcor Consti	08/23/2010 ruction LP Joan	Potential ne Filipas	
Co-Author:						
REQUEST: Reference Proect Bidding Manual, IV.A.17(a)	SUGGESTION:	ANSWER: A. Refer to T	Accept Sug G0300-0035.	gestion:		
Project Bidding Manual states, "Contractor will provide temporary power to distribution points in the Site Logistics plan (see Exhibit A) for the project. Subcontractor shall be responsible for all temporary power needs to complete their work beyond the distribution points provided by Contractor. Contractor will not provide temporary power for welding." A.Will the Owner (TJPA) pay for temporary power consumption, or does the Trade Subcontractor put thisin our Bid? B. Will the distribution points require separate metering for welding?		B. Refer to P	roject Bidding M	anual, Section IV	/ .17.	
Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/17/2010						
G03.00-0067 TG03 Question 0067 - Hazardous Waste	Closed	08/18/2010	09/01/2010	08/18/2010	Potential	ly 🗌
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	:Transbay PMP	C Alfre	d Lau	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference specification 01 13 50, 1.5.I & 1.5.H. Please confirm that "The TJPA is the "generator",,of any hazardous waste," 01 13 50 1.5.I, and that, "The TJPA		¿generator¿ o the site, as ex	ist, in the course	I, TJPA is the waste encounted of performance sponsible to any		



Contractor and the Trade Subcontractor. Please clarify specifically which permits are considered "ancillary" and not reimbursed by TJPA. (I.e DPW Tree Planting / Removal, Rock Wheel? SFMTA Traffic Control Plan?,

etc.)

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

764 of 1053 11/05/2013

30100

Time: 10:53 AM

				9		,			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Submitted by C Kiewit Infrastruc 08/17/2010	harles M. Gardner sture West Co.				sign the man waste, excep	13 50 ¿ 1.8.H, T ifest for the gene	JPA Represental erator of hazardo waste generated	us	
G03.00-0068	TG03 Question (0068 - OCS System		Closed	08/18/2010	08/24/2010	08/23/2010	Potential	ly 🗌
From: Webcor/C	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered B	y:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
across the temp	system be removed to a bridges? If so, when? E will be allowed for the inses?	B. What closures			Trade Subco	em can be remove ntractor anytime with local agencie	/ed and reinstalle at their conveni- es. This shall be	ence, as	
Submitted by C Kiewit Infrastruc 08/17/2010	harles M. Garnder sture West Co.					er to the traffic c ded in an upcom	ontrol specification	on. This	
G03.00-0069	TG03 Question 0	0069 - Permits		Closed	08/18/2010	08/24/2010	08/20/2010	Potential	ly
From: Webcor/C	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered B	y :Webcor Const	ruction LP Joar	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Proje specification 01	ect Bidding Manual, IV.A 14 10.	.6 and			Refer to TG0	300-0024.			
Subcontractor s complete their s Specifications S	Manual IV.4.6 a0 states hall obtain all required a scope in a timely manner section 01 14 10 for proje 14 10 does not distingu	ncillary permits to c. Refer to ect permits"							



Kiewit Infrastrcutre West Co.

08/17/2010

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

765 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Submitted by Ch Kiewit Infrastruc 08/17/2010	narles M. Gardner sture West Co.								
TG03.00-0070	TG03 Question 0	070 - CDSM		Closed	08/18/2010	08/24/2010	08/19/2010	Potential	ly 🗌
From: Webcor/O	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawi 2027, & S1-2030	ing sheets GT2101, GT2 0.	101, GT2103, S1-			GT 2101, GT	2102, GT 2103			
CDSM Layout a 2030 show anot do not match, th	T 2101, GT 2102, GT21 nd Drawings S1 2022 thr her CDSM Layout and th ne distance to CL of CDS between the two differen	u S1 2027, S1 e dimensioning M at A /1 and A /							
Submitted by Ch Kiewit Infrastruc 08/17/2010	harles M. Gardner sture West Co.								
TG03.00-0071	TG03 Question 0	071 - As-Built Drawings		Closed	08/18/2010	08/24/2010	08/20/2010	Potential	ly 🗌
From: Webcor/O	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference speci	ification 01 17 20.					ubcontractor is	responsible to pro	ovide	
Who is responsi TG03 or TG04?	ible for utility relocation a	s-built drawings,			as-builts for th	neir contract wor	k.		
Submitted by Ch	harles M. Gardner								



A (BCL), #3

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

766 of 1053 11/05/2013

Time:

10:53 AM 30100

uml	ber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
G03	3.00-0072	TG03 Question 007	2 - Electronic Files		Closed	08/18/2010	08/24/2010	08/18/2010	Potential	y 🗌
	From: Webcor/Obaya	shi Joint Venture	Manuel Saldana	To: Turner Construction Compar	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	- Ш
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Will the owner or g bidders with CADD di format) of the drawing Subcontractors?	igital files (preferably /	AutoCAD			Refer to an No.	nswer to TG030			
		eneral contractor plea ra digital files for Exhil backage?								
	Submitted by Kelley \Shimmick / Skanska 08/17/2010									
 G03	3.00-0073	TG03 Question 007	3 - Existing Piles and P	ile Caps	Closed	08/18/2010	08/24/2010	08/19/2010	Potential	y
	From: Webcor/Obaya	shi Joint Venture	Manuel Saldana	To: Turner Construction Compar	n Daphne Faulkner	Answered By	Transbay Join	t Powers Au Gerry	/ MacClellan	d
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	to find details of the e caps and piles to be a attached listing appea can we get a copy of	ference documents we existing San Francisco removed. Document N ars to be the one we r this document and an wings for the existing t	o Terminal pile No. 1 in the need. Where ny other			TJPA FTP site A hard copy w addendum wil	e referenced in ill be provided t I be issued add	and will be added Section 00 03 31. to Webcor/Obaya ing a reference to n 00 03 31.1.2D	1.1B. shi. An	
	Submitted by Kelley \Shimmick / Skanska 08/17/2010									
G03	3.00-0074	TG03 Question 007	4 - Tax Certificate		Closed	08/18/2010	08/24/2010	08/20/2010	Potential	у 🗌
	From: Webcor/Obaya	shi Joint Venture	Manuel Saldana	To: Turner Construction Compar	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-A	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
	Reference Project Bio	dding Manual. Sectior	ı v. paragraph			Refer to Speci	fication Section	1 00 04 54.		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

767 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
what certificate State or by the	es each bidder to provide is required. Is this certific Federal government? It is that General Partnerships	ate issued by the sour							
registered with	the State of California, the depresumably be a Federa	erefore this							
Submitted by C Shimmick / Ska 08/18/2010	Chad Trabucco anska / Traylor JV (SST)								
TG03.00-0075	TG03 Question 0	075 - Temporary Bridge		Closed	08/19/2010	08/25/2010	08/25/2010	Potential	ly
From: Webcor/C	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Constr	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
·	cification 01 53 13, paragr	•			Manitowoc 99 length of the b		applies to the en	tire	
travel; including assembled Marker traveling from the Please verify it 999 crane only moving from tredesign does no	tates "design shall include g typical semi truck traffic nitowoc 999 crane weighir restle to trestle without a his the intent of the specific travels across the temp sestle to trestle and that the thave to include the Maniother area of the temporar	and a fully ng 500,000 lbs nook load." cations that the treet while temp street itowoc 999			Fyfe, David (U	RS Corporation)		
Submitted by K Granite / CJA /	Celly Turner NCC Joint Venture								

TG03.00-0076

8/18/2010

TG03 Question 0076 - Access Trestle

Closed

08/19/2010 08/25/2010 08/19/2010

Potentially

From: Webcor/Obayashi Joint Venture

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Answered By: Webcor Construction LP Joanne Filipas

Co-Author:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

768 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Reference Exhibit A Attachment 3, Access Trestle Criteria, states "The level of the access trestle shall be the same as the level of the Temporary Bridges at the connections." Attachment 3 also states "The layout for each member of the Access Trestle¿. shall not conflict with the permanent structure¿" Tying the trestle to the cross streets will cause the trestle structure (which is approx 7' deep) to conflict with the concrete roof of the follow on structure. It is our	SUGGESTION:		Subcontractor. remain in place	Temporary roa	lity of the Trade adways/bridges manent structure ca		
understanding that the CM/GC understands this and will coordinate the removal of the acess trestle and the temp streets such that the concrete roof can be constructed after these conflicting structures are removed. Pls confirm. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/18/2010							
G03.00-0077 TG03 Question 0077 - Mat Slab Pile Sleev	ve	Closed	08/19/2010	08/25/2010	08/18/2010	Potentia	
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan [ociates, Inc Georg		,
Co-Author:	Tamer Concudency Company	saprino i adminor		, (44)	Jointos, mo Goorg	,o motegor	
REQUEST:	SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref: 2/S1-3003				is to allow the n	mat slab (and the mat slab) to mov	/e	
Slip Detail @ Trestle Pile/Mat connection shows a pipe sleeve over the trestle pipe pile to allow for vertical movement of the mat slab per Note 2. Not clear how that will be achieved since the detail shows the Mat slab with the mud slab directly bearing on the concrete encasement of the trestle pipe pile. Please clarify.			upward when g	ground water tal will move up a	ble rises to the de pproximately 1" u	esign	
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/18/2010							



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 769 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

ne: 1):

umber Subject	Status	Date Date Date Cost Created Required Answered Impact Procee
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Adamson Associates, Inc George Metzger
REQUEST: Ref: CSM Width/GT-5101 Plan Sheet 35 of 105, GT-5101, detail 2 shows 3' diameter multi auger soil mixing or a cutter soil mixing system (CSM) with conflicting widths. The stated width is 3'-6", yet the schedule width equals 3'-0", which matches dimension of the multi auger system. However, a 30" wide CSM system and a 36" multi auger system provide the same minimum width. Please confirm the desired width of the CSM system, 30, 36, or 42 inches. Submitted by Andres Melgoza Drill Tech & Shoring Inc 08/18/2010	SUGGESTION:	ANSWER: Accept Suggestion: The 3'-6" dimension for the CSM system on detail 2/GT-5101 should read 3"-6" maximum. GT-5101 will be revised to reflect this in an Addendum.
G03.00-0079 TG03 Question 0079 - Insurance From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	Closed To: Turner Construction Compan Daphne Faulkner	08/19/2010 08/25/2010 08/23/2010 Potentially Answered By: Webcor Construction LP Joanne Filipas
REQUEST: Reference General Requirements - Insurance Says surveyor must carry professional liability of \$25 million/claim. What general liability would the surveyor need to carry? I assume it is not the \$100 million/occurrence as noted for the trade subcontractors. The insurance would cost the surveyor more than it would cost to survey the project. Submitted by Lyndi Love MVE 08/18/2010	SUGGESTION:	ANSWER: Accept Suggestion: With respect to land surveyors only, the Trade Subcontractor or its retained engineers should only have to evidence \$1,000,000 in professional liability insurance covering that scope of work, consistent with the standard requirements set forth in Article 16 of the Long Form Subcontract. This will be included in Addendum 3.
G03.00-0080 TG03 Question 0080 - Schedule From: Webcor/Obayashi Joint Venture Manuel Saldana	Closed To: Turner Construction Compan, Daphne Faulkner	08/19/2010 08/25/2010 08/23/2010 Potentially Answered By: Webcor Construction LP Joanne Filipas



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

11/05/2013 10:53 AM

30100

770 of 1053 Time:

30100 - Transhay Transit Center Project

umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
REQUEST: Reference Exhibit A, Section V Reference NTP #6, 7, 8, 9, and 10. Please provide specifc dates when the Trade Subcontractor will be required to perform the removal work associated with these NTP's. It is not possible to estimate costs for managing and maintaining this project without that specific information. Submitted by Kelly Turner	SUGGESTION:		ANSWER: Refer to Exhib	Accept Suggit I, BSE Conce			
Granite / CJÁ / NĆC Joint Venture 08/18/2010							
G03.00-0081 TG03 Question 0081 - Police Officers		Closed	08/19/2010	08/25/2010	08/23/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan I	Daphne Faulkner	Answered By	:Webcor Consti	ruction LP Joan	ne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specification 01 15 70, 3.4.A Section states "Contractor shall provide uniformedpolice officers; as required by the TJPA representative" It is our understanding that per the contract definitions, the Contractor is defined to be Webcor/Ohbayashi. Please confirm that Webcor/Ohbayashi will direct and pay the costs for the uniformed officers described herein. If it is the intent of the contract that the Trade Subcontractor direct and pay the costs for these officers, please provide specific guidelines on when these officers will be required. Simply stating "as required by TJPA" will result in exorbitant bid costs due to the lack of specific information provided. Suggest an allowance for this.			10B officers a		ll pay for the cost be reimbursable. ddendum.		
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/18/2010							

From: Webcor/Obayashi Joint Venture

TG03.00-0082

Manuel Saldana

TG03 Question 0082 - Internal Bracing

To: Turner Construction Compan Daphne Faulkner

Closed

08/19/2010

08/25/2010

08/25/2010

Potentially

Answered By: Adamson Associates, Inc George Metzger



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

771 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:							
REQUEST: Ref: GT-1110 Ref Note 3 "strut loads are working stress level." Regarding 301 Mission Buttress Case Table 3 & 7; is Table 7 loading cumulative, or must Table 3 & Table 7 additive? Regardless of cumulative or additive do Table & 7 loads represent "working stress level"? Submitted by Gerald W. Brown Tutor-Saliba Corporation 08/19/2010			and 4, respec	tively. All loads s. Note: Tables	gestion: tive to Tables 1, 2 in these tables are 3 and 7 have bee	е	
TG03.00-0083 TG03 Question 0083 - Dimensi From: Webcor/Obayashi Joint Venture Manuel Sa		Closed	08/19/2010 Answered By	08/25/2010	08/23/2010 ociates, Inc. Georg	Potential	ly
Co-Author:	Turner Construction Con	ірап Барппе ғашкпег	Allsweled by	-Adamson Assi	ociates, inc Georg	e Metzger	
REQUEST: Ref: GT-2101 Reference drawing sheet GT-2101 Verify Shoring Wall Radius (594') at wall segment R2-1 and or dimensions radius center line (170'-2 1/2" & 220'-9"). Radius & Cer as identified do not work with layout as shown. Submitted by Gerald W. Brown Tutor-Saliba Corporation 08/19/2010	to		ANSWER: This will be co	Accept Sug			
TG03.00-0084 TG03 Question 0084 - Dimensi From: Webcor/Obayashi Joint Venture Manuel Sa Co-Author:		Closed npan Daphne Faulkner	08/19/2010 Answered By	08/25/2010 Adamson Asso	08/25/2010 ociates, Inc Georg	Potential ge Metzger	ly
REQUEST: Reference drawing sheet GT-2101 Ref Note #16 (RE: Wall Segment X1-1) 1. At what stag excavation in zone #1 will wall X1-1 be removed? 2. Ca			ANSWER: See reply to R	Accept Sug FI 0055.	gestion:		



going down at the same time.

Submitted by Gerald W. Brown Tutor-Saliba Corporation

08/19/2010

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 772 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
tiehacks he use	d to support wall segmen	t X1-12							
Submitted by Go Tutor-Saliba Co 08/19/2010									
G03.00-0085	TG03 Question 00	085 - Cut Off Wall		Closed	08/19/2010	08/25/2010	08/20/2010	Potential	ly 🗌
From: Webcor/C	bayashi Joint Venture	Manuel Saldana	To: Turner Construction Compar	n Daphne Faulkner	Answered By	:Webcor Constr	uction LP Joar	ne Filipas	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference draw	ing sheet GT-2103.				Refer to Note location of the	12 on drawing G	GT-2101 regardir	ng	
	tween grids 33 & 34 requiversely a state of the side of the state of the side				location of the	out on wans.			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

773 of 1053

Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
G03.00-0086	TG03 Question 0	086 - Wood Pile Remova		Closed	08/19/2010	08/25/2010	08/23/2010	Potential	lly 🗌
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawing	g sheets GT-5000 & G	T-5301.					or's proposed alte		
	be drilled out and mat acted and grouted as				more detail th where Non-G	an that included round Deformati	ting timber piles I in the RFI. Exco on Control Methor rawings, pulling of	ept ods are	
How does removal of wood piles and placement buttress piles work with regard to schedule.					noted as acceptable on the Drawings, pulling out timber piles directly from the ground and grouting without any precautionary measures to control settlements caused by pile extraction is prohibited.				
Submitted by Gera Tutor-Saliba Corpo 08/19/2010					settlements c	aused by pile ex	traction is prohib	ited.	
G03.00-0087	TG03 Question 0	087 - Dimensions		Closed	08/19/2010	08/25/2010	08/23/2010	Potential	lly
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geo	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawing	g sheets S1-2030, S1-2	2029, & GT-2103			See response	to RFI 0070.			
	o have made contradio (RS location of shoring mers.								
Submitted by Gera Tutor-Saliba Corpo 08/19/2010	ald W. Brown oration								
G03.00-0088	TG03 Question 0	088 - Train Platforms		Closed	08/19/2010	08/25/2010	08/23/2010	Potential	lly
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	s be constructed prior t ge vertical support ren				Train platform work.	s construction is	s not in the scope	e of the	
Submitted by Gera Tutor-Saliba Corpo									



TG03.00-0091

Co-Author:

From: Webcor/Obayashi Joint Venture

TG03 Question 0091 - Mat Slab Pile Sleeve

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

774 of 1053 11/05/2013

Date: Time:

Page:

Job:

10:53 AM 30100

Closed

08/19/2010

08/25/2010

Answered By: Adamson Associates, Inc George Metzger

08/23/2010

Potentially

30100 - Transbay Transit Center Project Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed 08/19/2010 TG03.00-0089 TG03 Question 0089 - Access Trestle Closed 08/19/2010 08/25/2010 08/20/2010 Potentially From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Answered By: Webcor Construction LP Joanne Filipas Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference specification 01 53 13, 1.3.A.2 Yes. Refer to the the second paragraph of the "General" section of Attachment 3 in Exhibit A. Do deflection limits for temp bridges also apply to work trestle? Submitted by Gerald W. Brown **Tutor-Saliba Corporation** 08/19/2010 TG03.00-0090 08/19/2010 TG03 Question 0090 - Internal Bracing Closed 08/25/2010 08/25/2010 Potentially From: Webcor/Obayashi Joint Venture Manuel Saldana Answered By: Adamson Associates, Inc George Metzger To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Reference drawing sheet GT-1112 Noted Vertical supports of shoring are shown in all stages up to stage 16. Vertical supports will still be required at stage 16 and and beyond to support work trestle & roadways. Submitted by Gerald W. Brown **Tutor-Salbia Corporation** 08/19/2010

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 775 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
REQUEST: Reference drawing sheet 2/S1-3003 What is the intent of this detail, how does it work and at what stage of construction is it to be installed? Submitted by Gerald W. Brown Tutor-Saliba Corporation 08/19/2010			SUGGESTION:		ere are two issues contractor: at the mat slab fro steel seep rings (a	estle pile design n/build item. Other are two issues that atractor: ne mat slab from			
TG03.00-0092	TG03 Question (0092 - Insurance		Closed	lower ring. 08/19/2010	08/25/2010	08/23/2010	Potential	ily 🔲
From: Webcor/Obay	yashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered B	y:Webcor Consti	ruction LP Joann	ne Filipas	
Co-Author:									
REQUEST: Reference Exhibt A	A, paragraph section \	√I	SUGGESTION:		ANSWER: Refer to resp	Accept Suggonse TG0300-00	_		
requires Trade Sub liability coverage co the Contract, and v Contract Final Fina term commercially construction and ex	ommercially unavailal occontractor to maintai ontinuously throughou without lapse, for 10 oldown date. The available is 10 years stended reporting perod is 3 years. Please	n professional ut the the term of years beyond the ne maximum policy combined for the iod. A more							

Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/19/2010

permanent structure.

extended reporting period to 3 years, or revise the requirement to a total of 10 years. Carrying \$25,000,000 professional liability insurance for 10 years will addsignificant cost to the Project without corresponding benefit as the majority of the design performed by Trade Subcontractor is for temporary work rather than the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

776 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Created	Required	Answered	Cost <u>Impact</u>	Procee
G03.00-0093	TG03 Question 00	93 - Insurance		Closed	08/19/2010	08/25/2010	08/23/2010	Potential	ly 🗌
From: Webcor	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	y:Webcor Const	ruction LP Joar	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Section 1.B re \$100,000,000 Section 16.7 of Webcor and the subcontractors Potential SBE provide \$100,0 Subcontractor Goal. It is high will offer 0% S Please advise and if so, how	quires the Trade Subcontra Commercial General Liabil of the proposed subcontractor require Trade Subcontractor require Trade Subcontractors will not sub-subcontractors will not be able to reach the subcontractors will not be able to reach the subcontractor as a result, if we will not be able to reach the subcontractor will not be able to reach the subcontractor will not be able to reach the subcontractor will be participation as a result of the subcontractor will be changed. We will be changed will be changed.	ity Insurance. between uires that Sub- of coverage. t be able to Trade he 24% SBE e Subcontractors of section 16.7. y section 16.7			be added to 1 Requirement: Long Form St \$100,000,000 Insurance sha Subcontractor Subcontractor Commercial C	.B of Exhibit A, ¿Notwithstandinubcontract, the roll in Commercial all apply ONLY tr. Sub-subcontres shall maintain	ng Section 16.7 or equirement to m General Liability to the bidding Tra actors/Lower-Tie the levels of Insurance set fo	of the aintain de	



Co-Author:

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Answered By: Adamson Associates, Inc George Metzger

777 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG03.00-0094	TG03 Question 00	094 - Vibration Level		Closed	08/23/2010	08/30/2010	08/25/2010	Potential	ly 🗌
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	ın Daphne Faulkner	Answered By	Transbay Joint	Powers Au Gerr	y MacClellan	id
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specificat	tion 00 35 65.						en piles on this p		
techniques that crea piles" 1.11.C.3. States "Pe	t or prohibit use of co te high vibration leve erform vibration intens only on weekdays du n. and 8 p.m."	ls. Do not drive			illustrative pur techniques tha limited to the h 1.11.C.3. App the FTA Office noise and Vibi	poses only. Other that may create his ours and times of cable vibration of Planning and	ner construction gh vibration level defined in section guidelines are is d Environment & s ssessment (Table	s are on ssued b s Transit	
	contradict each other esired, may be perfor								
Submitted by Charle Kiewit Infrastructure 08/23/2010									
TG03.00-0095	TG03 Question 00	95 - Internal Bracing		Closed	08/23/2010	08/30/2010	08/23/2010	Potential	ly
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	ın Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specificat	tion 31 55 00.				Proof load to b	e applied to the	e fully installed el	ement.	
clarify if primary stru	acing for Shoring Wa ts can be proof loade must be proof loaded made.	ed prior to			Fyfe, David (U	RS Corporation	n)		
Submitted by Charle Kiewit Infrastructure 08/23/2010									
TG03.00-0096	TG03 Question 00	096 - Internal Bracing		Closed	08/23/2010	08/30/2010	08/26/2010	Potential	

To: Turner Construction Compan Daphne Faulkner



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

778 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

		<i>_</i>		<i>J</i>			
lumber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawing sheet GT-2101, note 16. Note 16 on GT-2101 requires the internal bracing system to permit removal of wall segment X1-1 PRIOR to the completion of the excavation. When or at what stage of excavation will this wall be removed? Can tiebacks be used to support wall X1-1? Submitted by Shad Gardner Balfour Beatty				nbedded length	ptable on wall seg of the tieback sha		
08/23/2010							
G03.00-0097 TG03 Question 0097 - Internal Bracing	_	Closed	08/23/2010	08/30/2010	10/07/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:							
REQUEST: Reference drawing sheet GT-1111. GT-1111 requires a minimum stiffness of the internal bracing system which makes strut sizes dependent on the strut's length & spacing regardless of the load. This makes a very inefficient bracing system . Would the Authority consider providing an allowable design deflection criteria, in lieu of the stiffness requirement. Submitted by Shad Gardner Balfour Beatty 08/23/2010	SUGGESTION:		is too close to latter will be p acquired and shoring wall s installation of wall. Consiste	the final south laced once the demolished. Tie egment X1-1 w shoring at the f	ut shown in Adder west train box wall adjacent propertie backs installed at ould interfere with inal southwest traise to RFI 272, tieb	. The s are the n box	
G03.00-0098 TG03 Question 0098 - Cut-Off Wall		Closed	08/23/2010	08/30/2010	08/25/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Const	truction LP Joann	ne Filipas	
Co-Author:							
REQUEST: Reference GT drawing set.	SUGGESTION:				ny purpose of the systems can be u		



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 779 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
contractor as neede for the final design?		ve any purpose n retaining			cut-off walls can be eliminated with Trade Subcontractor's means and methods if Trade Subcontractor can meet the milestone requirements without sectionalized dewatering.				
TG03.00-0099	TG03 Question 00	99 - Dewatering		Closed	08/23/2010	08/30/2010	08/25/2010	Potential	ly
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction C	ompan Daphne Faulkner	Answered B	y: Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specification 31 23 19, paragraph 1.3.A, drawing sheet S1-2024, Note A Exhibit I, and Schedule (Dewatering). The above ref specification indicates TG03 dewatering system responsibility for duration of TG03 package. The referenced schedule shows dewatering thru March 2016. Note A DWS S1-2024 states dewatering maintained thru all dead load applications. Question: Does TG03 dewatering responsibility end Feb 2015 and remaining dewatering responsibility by subsequent contractors? (Pump Ownership/Pump/etc). Submitted by John Foote					responsibilitie A, IV. C18 ar		work specified ir		
Balfour Beatty Infras 08/23/2010 TG03.00-0100 From: Webcor/Obay	TG03 Question 01	00 - Timber Pile Remov Manuel Saldana	al To: Turner Construction C	Closed	08/23/2010 Answered B	08/30/2010 V: Adamson Ass	08/23/2010 cociates, Inc. Geor	Potential	ly

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

780 of 1053

30100

Time:

11/05/2013 10:53 AM

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Reference drawing sheet GT-5000, Section 1. The existing piles to be removed in Stage 3 are those at the buttress, as shown on GT-2202. Section 1 Stage 3(B) removes existing piles (this stage) Stage 4 notes that (E) Timber piles to be removed during excavation. Please clarify. Submitted by John Foote Balfour Beatty Infrastructure 08/23/2010 TG03.00-0101 Closed 08/23/2010 TG03 Question 0101 - Demolition 08/30/2010 08/30/2010 Potentially From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Answered By: Webcor Construction LP Joanne Filipas Co-Author: REQUEST: ANSWER: SUGGESTION: **Accept Suggestion:** Reference drawing sheet D-2210. Information shown on D-2210 is based on the 80 Natoma Shoring Plans. Webcor Builders, Tuan & There is a discrepancy in the drawing versus the reference Robinson Structural Engineers, Inc., May 6, 2004 (9 information dated 8/19/2004 (Webcor Existing Foundation sheets). Conditions - Hemisphere - 80 Natoma Street). The summary of production piles shown on Table 1 of the Information provided within: Webcor information indicates that Pile 129 was not installed. Also per the Table Pile 145-149 and 153, 154 (a) 80 Natoma Existing Foundation Conditions. were installed which are not shown on sheet D2210. Webcor Builders, August 19, 2004 (1 sheet) (b) Table, Pile Layout Numbering Drawing. Webcor, Please clarify. May 5, 2004 (1 sheet) (c) Table, Summary of Production Piles, T&R Project Submitted by John Foote Balfour Beatty Infrastructure No. 2397.07 (11 sheets) 08/23/2010 (d) Drawings, Tubex Grout Injection Pile Details American Pile Driving, Inc. (2 sheets) represents the as-built conditions and should be used for the extents of existing piles constructed as part of the 80 Natoma project.

Fyfe, David (URS Corporation)



local practice in that it is customary in Northern California

for the Contractor to furnish, install and monitor

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

construction and by the magnitude of movements

observed.

781 of 1053 11/05/2013

10:53 AM 30100

umber <u>Subject</u>	Status	Date Date Date Cost Created Required Answered Impact Proc
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Webcor Construction LP Joanne Filipas
Co-Author:		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference drawing sheet D2213.		Not all pile caps between Beale St. and Fremont St.
Indicates that pile caps are already removed under Existing Terminal and Ramps Demolition Project. Sheet No. GT-5000 Section 1 shows that a portion of the pile		will be removed under the Existing Terminal and Ramps Demolition Project (Contract No. 08-08-DM-000).
caps are still existing. We assume that all pile caps and grade beams are removed under prior demolition contract on sheet D-2213.		Sheet GT-5000 is diagrammatic only. Extent of existing pile caps to be removed under the Buttress, Shoring and Excavation Project (Contract No. 08-04-CMGC-000) are shown on sheet D-2213.
Submitted by John Foote Balfour Beatty Infrastructure 08/23/2010		Fyfe, David (URS Corporation)
From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	Closed To: Turner Construction Compan Daphne Faulkner	08/24/2010 08/31/2010 09/04/2010 Potentially Answered By: Adamson Associates, Inc George Metzger
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference specification 39 09 13	0000 <u>1</u> 0	All instrumentation shown on the 7/30/10 geotechnical drawings will be procured, installed, and
The plans show geotechnical instrumentation including inclinometers, MPBXs, piezometers and settlement points.		monitored by the TJPA's Representative. The specifications describe monitoring, which is the
Specification Section 39 09 13 states that "		responsibility of the contractor, e.g., monitoring
Geotechnical instrumentation consists of inclinometers, settlement casings, settlement monitoring points, survey		procedures to check internal bracing performance in Section 31 55 00, and monitoring wells for the
reference points, piezometers and multiple point borehole		dewatering system in Section 31 23 19.
extensometers." The plans state that the geotechnical instruments for monitoring the TBT excavation and shoring		2. The TJPA will monitor ground movements inside
work are to be drilled and installed by the TJPA		and outside the excavation using the instruments
representative. However, the specifications call for "furnishing, installing, monitoring, reading, recording,		shown on GT-1301 and 1302. The Contractor will monitor the internal bracing system.
maintaining, protecting geotechnical instrumentation." The specifications go on to state that		3. The TJPA is evaluating the implementation of an
"where shown on the drawings, the Contractor will procure and install the specified instrumentation." We find		automated data collection and management system which uses a web-based portal to assemble data
no notes on the plans calling for the Contractor to procure		generated by contractor, the TJPA's Representative,
and install the specified instrumentation nor notes as to		and others for examination by relevant parties. In lieu
who is responsible for monitoring the shoring performance. The plans appear to be inconsistent with		of this, the TJPA's Representative will read the instruments at a frequency dictated by the stage of



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

782 of 1053 11/05/2013

Time:

10:53 AM

30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

appropriate geotechnical instrumentation when the Contractor is responsible for constructing works involving deep excavations and shoring. We recognize the Internal Bracing Specification requires a monitoring program for struts, but is silent on exterior monitoring.

- 1. What is the Owner's intent in this regard?
- 2. Will the TJPA be responsible for the exterior monitoring as implied, and the Contractor be responsible for monitoring the performance of the shoring systems in the Specifications which state "...furnishing, installing, monitoring, reading, recording, maintaining, protecting geotechnical instrumentation.", Or will the TJPA representatives read and monitor for all the geotechnical instrumentation?
- 3. If the TJPA representatives read the geotechnical instrumentation, will the TBJPA representatives take the geotechnical instrumentation data readings on a daily basis? If the TJPA representatives are to be responsible for timely reading and reporting on the shoring systems performance, will the TJPA representatives set up the geotechnical instrumentation to be read via dataloggers with in-situ sensors and cellular modems in the case of the inclinometers and/or similarly in the case of the piezometers and MPBXs? Timely notification of all parties should be required.

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/23/2010

From: Webcor/Obayashi Joint Venture

TG03.00-0104 TG03 Qu	uestion 0104 - Dewatering
----------------------	---------------------------

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Closed

08/24/2010 08/31/2010 08/25/2010

Potentially

Co-Author:

REQUEST:

Per the Bid Documents, the Trade Subcontractor for the BSE package is responsible for removing the dewatering system. Is the Trade Subcontractor for the BSE package SUGGESTION:

ANSWER:

Accept Suggestion:

Answered By: Webcor Construction LP Joanne Filipas

TG03 Trade Subcontractor will not be responsible for the pouring back of the void. Waterproofing will be installed by others. Dewatering well casing shall be



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

783 of 1053 11/05/2013

Time:

10:53 AM 30100

JOINI VENTUR	A E		30100 - Transbay Transit Center Project							
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
slab once the dev request confirmat the dewatering we	for pouring back the voice vatering well is removed ion that the waterproofing classing by others. Find abandoning the well c	? We also ng will be tied into ally, please			capped and lo	eft in place.				
Submitted by Kell Granite / CJA / No 08/24/2010										
TG03.00-0105	TG03 Question 01	105 - Utilities		Closed	08/24/2010	08/31/2010	10/15/2010	Potentia	Ily 🗌	
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	npan Daphne Faulkner	Answered B	y: Turner Constru	uction Comr Dap	hne Faulkne	r	
Co-Author:										
REQUEST: Can we get a cop	y of Site Utilities Trade	Packages:	SUGGESTION:		ANSWER:	Accept Sug	-	rsedes		
Package TG04.7 Package TG04.1 Package TG04.3 Package TG04.4 Package TG04.6	,	G .				sted response T				
Submitted by Cha Kiewit Infrastructu 08/24/2010										
TG03.00-0106	TG03 Question 01	106 - Hazardous Material		Closed	08/24/2010	08/31/2010	08/25/2010	Potentia	lly	
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	npan Daphne Faulkner	Answered B	y:Webcor Const	ruction LP Joar	nne Filipas		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Exhibit	t A				Confirmed, or	nly the existing h	azardous materi	al on		
that may result fro	at the "hazardous/High om the Perimeter Shorin ts will be included in the	ng Diaphragm			site shall be i Disposal Prei	ncluded in the admium.	dditive Class I ar	na II Soil		



strut and waler sizes increase very significantly over what would be required by strength considerations alone. Please provide a sample calculation or procedure for determining stiffness for comparison with the values given

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

784 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Bid Items and no Disposal Premiu	ot in the additive Class I m.	and II Soil							
Submitted by Ch Kiewit Infrastruct 08/24/2010	arles M. Gardner ure West Co.								
TG03.00-0107	TG03 Question 0	107 - Internal Bracing		Closed	08/24/2010	08/31/2010	08/25/2010	Potentiall	ly 🔲
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Com	npan Daphne Faulkner	Answered B	y: Webcor Const	truction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specif	ication 31 55 00.					al loads shall be	identified by Trad		
it says that we ar the Contractor (V	31 55 00 on Page 5 Sub e to include incidental lo Vebcor/Ob??). Can you during the Bidding Proc	oads defined by Please define				r's Internal Brac e internal bracir	ing Designer and ng design		
Submitted by Ch Kiewit Infrastruct 08/24/2010	rales M. Gardner ure West Co.								
TG03.00-0108	TG03 Question 0	108 - Internal Bracing		Closed	08/24/2010	08/31/2010	08/27/2010	Potentiall	ly
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Com	npan Daphne Faulkner	Answered B	y:Webcor Const	truction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference drawir	ng sheet GT-1111, Lege	nd			Refer to resp	onse TG0300-0			
strut and waler sy	equested: A. Please hel ystem stiffness requirem	ents. Our initial							



Page: Date:

Job:

785 of 1053

30100

Time:

11/05/2013 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG 30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

in kip per foot, per foot of wall. B. Pre-loading will take out a portion of the axial shortening of the struts. We assume that it is appropriate to subtract out that deflection from the stiffness calculation. Please confirm.

Q/A Answers received this morning did not address this question, and can have a significant impacton the Contractor's design and potential for competetive underbidding of this project. We request your clarification on a priority basis as this may affect our decision to Bid this project.

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/24/2010

TG03.00-0109 TG03 Question 0109 - Utilities

From: Webcor/Obayashi Joint Venture Manuel Saldana

Co-Author:

REQUEST:

Response to question TG003-0044 states "Coordinate with and protect in place New active utilities (PG&E and Verizon) constructed by the private utilities that will be supported by the temporary bridge." Please advise where is the information regarding these new utilities so the Trade Subconractor can review them prior to bid? How does the Trade Subcontractor obtain this information?

Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010

Closed

To: Turner Construction Compan Daphne Faulkner

SUGGESTION:

08/25/2010

09/01/2010

08/27/2010

Potentially

Answered By: Webcor Construction LP Joanne Filipas

ANSWER: **Accept Suggestion:** Refer to response TG0300-0105.

TG03.00-0110

TG03 Question 0110 - Utilities

Closed

08/25/2010

09/01/2010

08/27/2010

Potentially

From: Webcor/Obayashi Joint Venture

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Answered By: Webcor Construction LP Joanne Filipas



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

ANSWER:

786 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

umber Subject	<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proce
REQUEST: Response to question TG003-0044 states "Protect in place New active sewers constructed as part of the Relocation of Utilities Project as shown on the plans." Please confirm that the project referenced is TG 04.5.1. As these are the only utility relocation plans available to the Trade Subcontractor, we need confirmation that these are the only drawings that must be reviewed prior to bid. If there are other plans the Trade Subcontractor must review in order to ascertain the impacts of new utility relocations, advise where they can be obtained. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010	SUGGESTION:	ANSWER: Refer to respo	ANSWER: Accept Suggestion: Refer to response TG0300-0105.			
G03.00-0111 TG03 Question 0111 - Schedule	Closed	08/25/2010	09/01/2010	08/25/2010	Potentia	lly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference BSE Concept Schedule.		particular Tra	I schedule is a c de Package. Th	oncept schedule ne Trade Subcont	ractor	
Activity UT-204400, titled "Available: Start Shoring Zone 1" has a start date of 14Jul11. Please explain what this date				accurately represent with the contract		
means. Is the trade subcontractor to understand it cannot begin any zone 1 cdsm work (including pre-trenching) until this date? If so, is the date still accurate. Please clarify.			Work in Zone 1	may commence (
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010						
G03.00-0112 TG03 Question 0112 - Schedule	Closed	08/25/2010	09/01/2010	08/25/2010	Potentia	

SUGGESTION:



Reference BSE Concept Schedule.

Activity UT-202400, titled "Franchise Utilities Phase 2 @

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

787 of 1053 11/05/2013

Time: Job:

UT-202400 represents the public utilities relocation

required after the installation of the traffic bridge at

First Street.

10:53 AM 30100

20100 Transhay Transit Contar Project

	30100 - Halisbay i		Date	Date	Date	Cost	
umber Subject	Statu	IS	Created	Required	Answered	Impact	Procee
Reference BSE Concept Schedule. Activity UT-204500, titled "Available: Start Shoring Zone 2" has a start date of 14Jul11. Please explain what this date means. Is the trade subcontractor to understand it cannot begin any zone 2 cdsm work (including pre-trenching) until this date? If so, is the date still accurate. Please clarify. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010			particular Trac shall provide a their work pla	de Package. The schedule that and in accordance Work in Zone 2 r	oncept schedule fo e Trade Subcontr accurately repress with the contract nay commence u	actor ents	
G03.00-0113 TG03 Question 0113 - Schedule From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	Close To: Turner Construction Compan Daphne Fa		08/25/2010 Answered By	09/01/2010 :Webcor Consti	08/25/2010 ruction LP Joann	Potential ne Filipas	ly
REQUEST: Reference BSE Concept Schedule. Activity UT-201800, titled "Available: Start Phase 1 Cross Cross Shoring @ 1st Street". Please explain what this activity represents. What work is the Trade Subcontractor unable to perform before 15Jul11? Is this date still accurate? Please clarify. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010	SUGGESTION:		particular Trad shall provide a their work pla	de Package. That a schedule that a n in accordance Work in Zone 2 r	gestion: concept schedule e Trade Subcontr accurately represe with the contract may commence u	ractor ents	
G03.00-0114 TG03 Question 0114 - Schedule From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	Close To: Turner Construction Compan Daphne Fa		08/25/2010 Answered By	09/01/2010 /:Webcor Const	08/25/2010 ruction LP Joanr	Potential ne Filipas	ly
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Natoma" has a start date of 02JUn11. Please explain what

this date means. Is the trade subcontractor to understand

it cannot begin any zone 1 and 2 cdsm work (including

pre-trenching) until this date? If so, is the date still

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

their work plan in accordance with the contract

upon the receipt of NTP #03 and NTP #04

respectively.

documents. Work in Zone 1 and 2 may commence

788 of 1053 11/05/2013

Date: Time: Job:

Page:

10:53 AM 30100

20100 Tranchay Trancit Contar Project

TOTAL VENTORE	30100 - Trans	sbay Transi	it Center	Project			
Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
1st". Please explain what specific work this activity represents.							
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010							
TG03.00-0115 TG03 Question 0115 - Schedul	e	Closed	08/25/2010	09/01/2010	08/25/2010	Potential	lly
From: Webcor/Obayashi Joint Venture Manuel Sa	aldana To: Turner Construction Compar	Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	nne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference BSE Concept Schedule. Activity UT-200600, titled "Available: Start Shoring @ Zone 1 & 2 Minna"has a start date of 15Jul11. Please explain what this date means. Is the trade subcontracte understand it cannot begin any zone 1 and 2 cdsm wor (including pre-trenching) untilthis date? If so, is the date still accurate? Please clarify.	k		particular Trac shall provide a their work plac documents. \	schedule is a code Package. The schedule that a nin accordance	ncept schedule or Trade Subcon accurately repre- with the contrac and 2 may comi	tractor sents t	
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010							
TG03.00-0116 TG03 Question 0116 - Schedul	e	Closed	08/25/2010	09/01/2010	08/25/2010	Potential	lly 🗌
From: Webcor/Obayashi Joint Venture Manuel Sa	aldana To: Turner Construction Compar	Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	nne Filipas	
Co-Author:							
REQUEST: Reference BSE Concept Schedule.	SUGGESTION:				oncept schedule		
Activity UT-200900, titled "Start Shoring @ Zone 1 & 2					e Trade Subcon accurately repre		



explain what this date means. Is the trade subcontractor to

(including pre-trenching) until this date? If so, is the date

understand it cannot begin any zone 3 cdsm work

still accurate? Please clarify.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

789 of 1053 11/05/2013

Time: Job:

receipt of NTP #05.

documents. Work in Zone 3 may commence upon the

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
accurate? Please	e clarify.								
Submitted by Kel Granite / CJA / N 08/24/2010	lly Turner CC Joint Venture								
TG03.00-0117	TG03 Question 0	117 - Schedule		Closed	08/25/2010	09/01/2010	08/25/2010	Potential	ly 🔲
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference BSE 0	Concept Schedule.						oncept schedule f		
Activity UT-20372	20, titled "Available: Sta	rt Shoring Zone 4"			shall provide	a schedule that	ne Trade Subcont accurately repres	ents	
	of 25Mar11. Please expl de subcontractor to und						with the contract may commence u		
begin any zone 4	cdsm work (including ps the date still accurate?	re-trenching) until			receipt of NTF	P #02.	may commence c	pon ino	
Submitted by Kel Granite / CJA / N 08/24/2010									
TG03.00-0118	TG03 Question 0	118 - Schedule		Closed	08/25/2010	09/01/2010	08/25/2010	Potential	
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference BSE (Concept Schedule.					schedule is a co	oncept schedule f		
	00, titled "Available: Star has a start date of 18Ma				shall provide	a schedule that	ne Trade Subcont accurately repres with the contract	ents	



08/24/2010

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

790 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject	<u>Status</u>	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
Submitted by Kelly Turner Granite / CJA / NCC Joint Venture 08/24/2010						
G03.00-0119 TG03 Question 0119 - Shoring Wall From: Webcor/Obayashi Joint Venture Manuel Saldana	Closed	08/25/2010	09/01/2010	08/30/2010 ociates, Inc. Geor	Potential	ly
Co-Author:	To: Turner Construction Compan Daphne Faulkner	Allowered D	•Adamson Asso	ociales, inc Geor	ge Metzger	
REQUEST: Reference drawing sheet GT-1110. Drawing defines four different design cases for temporary shoring design. Please specify limits for each case relative to building column lines. Submitted by Kelly Turner Granite / CJA / NCC Joint Venture	SUGGESTION:	"Reference D clarification:	esign Location F the boundary be	gestion: One of the control of the c	owing t and	



Webeel/ebayasin some ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 791 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact Procee
TG03.00-0120	TG03 Question 0	120 - Dewatering		Closed	08/25/2010	09/01/2010	08/25/2010	Potentially
From: Webcor/Obay	yashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference specification	ation 31 23 19, paragr	aph 1.1.A.			Refer to respon	onse TG0300-00)99.	
Please refer to our previous inquiry regarding dewatering. (TG0300-0099) The bid form docs show 72 mo for maint. However, the above spec section allows for "transfer of ownership." Our concern for 72 mo has to do with issues related to bond limits/duration; definition of final completion; and retention release. Also, what is the warranty period and when does it commence. Submitted by John Foote Balfour Beatty Infrastructure 08/25/2010								
TG03.00-0121	TG03 Question 0	121 - Utilities		Closed	08/25/2010	09/01/2010	08/25/2010	Potentially
From: Webcor/Obay	yashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Referene drawing s	sheet U-2009.				Refer to Exhil	oit I, BSE Conce	pt Schedule.	
Utilities Project dra 8-6-10 there are 2 l of Minna and 1st Si Construction Seque connected and exis PG&E, demolish as manholes, and con other utilities that ru between Minna and	sit Center Program Repairing sheet U-1121 (30 large vaults indicated intreets. According to the ence note 6 ¿after electing electric ductbank is indicated existing electric to the limits should be noted to the limits should be noted and south or discount of Natoma. Drawing sheet hese utilities in the or the should be noted to the second of the second	of 172) issued on the SW corner e Demolition and ctric services are is abandoned by ectrical ductbank wn; as well as all 1st Street eet U-2009 (50 of						

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/25/2010

Plan and Elevation. Please confirm as per Transbay Transit Center Program Butress/ Shoring/ Excavation drawing D-2230 detail 1 Remove Utilities that the utilities removal will be complete by the TG03 contract start date.



Section 33 55 00 does not exist in the documents, but should be a reference to 31 55 00 1.4.B.7., The 33 should

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

792 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Procee
TG03.00-0122	TG03 Question 0	122 - Logistics		Closed	08/25/2010	09/01/2010	08/25/2010	Potentia	lly 🗌
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By:Webcor Construction LP Joanne Filipas				
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion:				
Reference Projec Logistics Exhibit A	et Bid Manual IV.A.12.a, A.	27.b, and Site			Yes, the Trade Subcontractor shall provide the access. Refer to Exhibit A.				
These sections reference material/personnel hoists. Is the TG03 Contractor to provide access for the follow on trade subcontracts? Please provide specifications for size, type, and capacity, otherwise hoists will be designed to minimum requirements for this Trade Subcontractor to complete its work.					each with 10, inside dimens	000 lb capacity,	t shall be dual ho approximately 5' rdraulic system.' ddendum.	' x 12'	
Submitted by Cha Kiewit Infrastructu 08/25/2010									
TG03.00-0123	TG03 Question 0°	123 - Internal Bracing		Closed	08/25/2010	09/01/2010	09/03/2010	Potentia	lly
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	nne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specifi					1. Incidental I posted 8/31/1		onse TG0300-01	07,	
it says that we are the Contractor (W	31 55 00 on Page 5 Sub e to include incidental lo /ebcor/Ob??). Can you during the Bidding Proce	ads defined by Please define				Refer to respon	se to TG0300-00 t on clearances.	005	
In Spec Section 31 55 00 on Page 6 Sub-Section 1.5.I. it says that we are to coordinate clearances with the Contractor (Webcor/Ob???). Can you Please define the required clearances now during the Bidding Process?					paragraph 1.7		tion 31 55 00, Pa s of temporary wo contractor.		
In Spec Section 31 55 00 on page 8 Sub-Section 1.7.D. it says that the Contractor (Webcor/Ob???) shall retain a Special Inspector. Does ¿shall retain¿ mean that the Contractor (Webcor/Ob???) will also pay for the Special Inspector services and their testing(s)?							5 00 paragraph 1 to 33 55 00 sho		
	31 55 00 on page 8 Sub- e made to Section 33 55								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

793 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

Cost

Potentially

Date

09/08/2010

Answered By: Transbay Joint Powers Au Gerry MacClelland

30100 - Transbay Transit Center Project

Date

08/25/2010

lumber	Subject	Status	Created	Required	Answered	Impact	Procee

be a 31. Can we get this confirmed and changed?

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/25/2010

TG03.00-0124 TG03 Question 0124 - Warranties

From: Webcor/Obayashi Joint Venture Manuel Saldana

Co-Author:

REQUEST:

Reference specification 01 17 40.

- 1) Please confirm that the 2 year warranty for subsurface work applies to this Trade Subcontractor package
- 2) Request a copy of the Contractor's Builder's Risk insurance so we can review terms and conditions.
- 3) Does the California Public Contract Code 7105 (Acts of God) statute apply in this Trade Subcontract?
- 4) Will a Contractors Protective Professional Indemnity policy in the amounts specified in Exhibit A section VI be sufficient evidence of coverage to the Owner? 5) Request the general liability requirements be amended to more customary rated A-VII or higher

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 08/25/2010

Closed

To: Turner Construction Compan Daphne Faulkner

SUGGESTION:

Date

ANSWER: Accept Suggestion: 1. The warranty requirements in Section 01 17 40

09/01/2010

- are for the project as a whole and are not specific to an individual package. The warranty items for the BSE package, if any, would be limited to those works in place when the contract is complete.
- 2. The Builder's Risk policy will be made available prior to the start of construction. Refer to Section 00 08 05, paragraph 1.3.A, in Addendum 2 for the Contractor; s requirements.
- 3. The Public Contract Code 7105 allows public entities to require Builder's Risk insurance from public works contractors to cover damage to the construction site. The requirements of Section 00 08 05 are for the CM/GC. The insurance requirements for the Trade Subcontractors is defined in the Webcor/Obayashi long form subcontract.
- 4. Yes, a Contractor's Protective Professional Indemnity Policy (CPPI) is sufficient evidence of coverage.
- 5. See Addendum 2 for the revision to rating.



TG03.00-0127

From: Webcor/Obayashi Joint Venture

TG03 Question 0127 - Temporary Power

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

794 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG03.00-0125	TG03 Question 01	25 - QBD		Closed	08/25/2010	09/01/2010	08/27/2010	Potential	y 🗌
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Constr	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Projec	et Bidding Manual 37/44.						the sequence eit		
QBD's submitted, response dates. (unanswered that	e attached spreadsheet in corresponding TG Quest Currently, there are a nur were submitted as of 8/2	stion number and mber (18) QBD's 20/10.				n future respons	ill under review a ses.	na wiii	
	iew of this list and respor O's as soon as possible.	nse to the							
Submitted by Cha Kiewit Infrastructu 08/25/2010									
TG03.00-0126	TG03 Question 01	•		Closed	08/27/2010	09/03/2010	09/02/2010	Potential	у 🗌
		Manuel Saldana			Amouronad Di	- 4 1 4			
Co-Author:	ayasın comit ventare		To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:	rayaanii oonik varikara		·	Daphne Faulkner			_	ge Metzger	
Co-Author: REQUEST:	ng sheet GT-5102.		SUGGESTION:	Daphne Faulkner	ANSWER:	Accept Sugg	_		

To: Turner Construction Compan Daphne Faulkner

Closed

08/27/2010

09/03/2010

Answered By: Webcor Construction LP Joanne Filipas

Potentially



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 795 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion:				
Reference page 22 of 44, note #17.					oit A, Section IV.	.B.A.17 Tempora			
Project Bid Manual Temp Power Page 22 of 44 note #17; calls out for Temp Power per Site Logistics Plan in exhibit A. This is on sheet SL-003 (see attached) Exhibit A - Scope of Package (general work) Page 6 calls for Temp Power skids to be used for dewatering only Base Bid Item Scope Page 11 #18 Dewatering System calls out for power to be provided per attachment #2 which is the Site Logistics Plan in exhibit A drawing SL-003. In this paragraph it also says that there might be power available for our use in this scope of work. Do we need to provide the 4-skid units as shown on attachment #2 Site Logistics Plan? If so please electrical load and voltage requirements. Documents imply there is an existing temp power system for the dewatering? If so please provide information & how it is to be modified for this project.				time of the sta	art of dewatering	y be available by g; however, Trade stem such that it aporary power.			
TG03.00-0128	TG03 Question 01	28 - Temporary Lighting		Closed	08/27/2010	09/03/2010	08/30/2010	Potential	lly 🗀
From: Webcor/C	bayashi Joint Venture	Manuel Saldana	To: Turner Construction C	ompan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference page	22 of 44, note #18.						shall be included ractor shall provide		
	tual Temp Lighting Page 2 subcontractor is to provide eary lighting.				code required		ing. Refer to Exh		
please provide s	provide pricing for this sco site drawings with the layon n your requirements for thi	out of the Temp							
TG03.00-0129	TG03 Question 01	29 - Temporary Lighting		Closed	08/27/2010	09/03/2010	08/30/2010	Potential	lly
From: Webcor/O	bayashi Joint Venture	Manuel Saldana	To: Turner Construction C	ompan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	



Base Bid Item Scope #1 Mobilization refers you to Section

01 15 05 which calls out in Summary of Work #3, to install temporary construction power and wiring. What temp

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

lighting in the base bid. Refer to the Documents for

the temporary power and lighting requirements.

796 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	<u> </u>			<u> </u>				<u> </u>	17000
REQUEST:					ANSWER:	Accept Sug	gestion:		
Reference Exhib page 6 state.	Reference Exhibit A - Scope of Package (General Work page 6 state.				1. The cost o included in the	f temporary pow	er and lighting sh	all be	
States 18 Temporesponsible for in lighting at the pe pedestrian walkw minimum lighting candle lighting le times, including the times, including the temporary poles at street le temporary poles cameras, power mounting hardway cameras will be in Temporary lighting to, installing light boxes, breakers, temporary power maintenance requirement for the top we need to plare there drawing that require Tem	rovide pricing for this scop gs showing existing condit p Lighting, Street Lighting size of Generator required	entractor shall be emporary parricades, at rovide code-as sufficient foot work at all a minimum, lude temporary ing lighting, eccurity ty cameras, and Security by others. It is not limited roware, switchings among poles and growths. Trade mittal			2. Yes, refer	to the Document	s for existing con	ditions.	
TG03.00-0130	TG03 Question 013	30 - Temporary Power		Closed	08/27/2010	09/03/2010	08/30/2010	Potential	lly 🗀
		To: Turner Construction	n Compan Daphne Faulkner	Answered B	y:Webcor Const	ruction LP Joan	ne Filipas		
Co-Author:									
REQUEST: Reference Base Bid Items Scope #1.			SUGGESTION:		ANSWER: Bidders shall	Accept Sug	gestion:	wer and	



review calendars, work weeks, restrictions, etc. Cost information can be terminated from these file, as we do

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

797 of 1053 11/05/2013 10:53 AM

30100

Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Process
Number				Status	Oreaced	<u>required</u>	Answered	_ <u>impact</u>	riocee
power is this refer	rring to? (Lay-down area	a, office trailers,							
•	pricing for this scope of scope of work required	· ·							
TG03.00-0131	TG03 Question 0	131 - Temporary Lighting		Closed	08/27/2010	09/03/2010	08/30/2010	Potentiall	ly
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
street lighting at p hanging of existing	A #23 5- 23 Bridge at Foedestrian walkways an gutilities Page 13 Exhior removal street lighting	d hanging/un- bit #24 Bridge at	SUGGESTION:		•	Accept Sug whibit A refers to es. Please clarif	Construction Sc	hedule	
Do we need to proor both?	ovide temp lighting, or p	permanent lighting							
	d on the bridge and on ighting requirements?	the underside? If							
	vork referenced here pe lge that crosses over 1s								
TG03.00-0132	TG03 Question 0	132 - Schedule		Closed	08/27/2010	09/03/2010	08/30/2010	Potentiall	
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Co	mpan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
Documents does Subcontractors to We are requesting	ot schedule provided in not provide sufficient do preview risk and workfo g you to provide electro pot schedule, so we can	etails for rce requirements. nic Primavera	SUGGESTION:		available. Ple Specifications	ase refer to the	oncept Schedule Div.00 and Div.0 ts of calendars, v	1	



Co-Author:

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

798 of 1053 11/05/2013

Time: Job:

Answered By: Webcor Construction LP Joanne Filipas

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
not need that informa	tion.								
TG03.00-0133	TG03 Question 01	33 - Insurance		Closed	08/31/2010	09/07/2010	08/31/2010	Potentiall	
From: Webcor/Obayas		Manuel Saldana	To: Turner Construction Co				ruction LP Joan		,
Co-Author:					Ĩ				
REQUEST: Reference specification Professional Liability \$2,000,000 each occursection 00 08 05. Plea	Insurance limits cahi urrence in addendum ase confirm limits ch	nged to n #2 in spec	SUGGESTION:			onse TG0300-00	gestion: requirements go)26 for survey lial		
A VI.2.A to \$2,000,00	00 as well.								
		34 - Temporary Bridge		Closed	08/31/2010	09/07/2010	09/07/2010	Potentiall	 у П
A VI.2.A to \$2,000,00	TG03 Question 01	34 - Temporary Bridge Manuel Saldana	To: Turner Construction Co				09/07/2010 ruction LP Joan		у 🗌
A VI.2.A to \$2,000,00 TG03.00-0134	TG03 Question 01		To: Turner Construction Co						у 🗌
A VI.2.A to \$2,000,00 TG03.00-0134 From: Webcor/Obayas	TG03 Question 01 shi Joint Venture porary bridges at 1st ctor is to reference S S. Section 01 15 70-2 s at 11'. Section 01 5 ath and three barriers	Manuel Saldana , Freemont and pec. # 01 15 70-2 states we are 3 13-3.6 calls for assumed 1'-6"	To: Turner Construction Co		Answered By	Accept Sug	ruction LP Joan	ne Filipas	у [

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 799 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

REQUEST: Welding qualifications for Temporary Bridges acil for AWS D1-D1-TM not AWS D1-5 Please confirm AWS D1-D1-TM not AWS D1-D1-TM not AWS D1-D1-TM not AWS D1-5 Please confirm AWS D1-D1-TM not AWS D1-D1-TM not AWS D1-D1-TM not AWS D1-TM not AW	umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
G03.00-0136 TG03 Question 0136 - Hazardous Material From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: Reference specification 01 13 50 and 31 00 00. Specification Section 01 13 50 requires management of existing soils consistent with the Contract Documents. Specification 31 00 00 13.1 states the Testing Agency is an, "Independent testing and inspection organization complying with ASTM E32 and employed by the TJPA to perform verification and testing," Please confirm that TJPA will perform testing and will pay the cost for analytical testing, and inspection organization of Class I and Class I I material if required by the appropriate disposal facilities. G03.00-0137 TG03 Question 0137 - Unforseen Or Differing Conditions From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: Reference specification 00 03 20-1, 1.5A. "Refer to section 00 08 11 Unforseen or Differing Conditions," This section is	Welding qualifications for Temporary Bridges acll for AWS D1.1/D1.1M not AWS D1.5 Please confirm AWS D1.1/D1.1M is applicable to the Temporary Bridges for the	SUGGESTION:		AWS D1.1/D1.1M is not applicable to the temporary bridges. The temporary bridges welding qualifications welding personnel, and welding procedures shall be				
From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Answered By:Transbay Joint Powers AL Gerry MacClelland To: Turner Construction Compan Daphne Faulkner Confirmed, Please note that Section 01 13 50 should be read in tandem with 01 13 50/APA, Site Mitigation Plan. Answered By:Transbay Joint Powers AL Gerry MacClelland To: Turner Construction Compan Daphne Faulkner To: Turner Construction Compan Daphne Faulkner Answered By:Transbay Joint Powers AL Gerry MacClelland To: Turner Construction Compan Daphne Faulkner To: Turner Construction C				Fyfe, David (L	JRS Corporation	n)		
REQUEST: Reference specification 01 13 50 and 31 00 00. Specification Section 01 13 50 requires management of existing soils consistent with the Contract Documents. Specification 31 00 00 1.3.J states the Testing Agency is an, "Independent testing and inspection organization complying with ASTM E32 and employed by the TJPA to perform verification and testing," Please confirm that TJPA will perform testing and will pay the cost for analytical testing associated with soil characterization of Class I and Class II material if required by the appropriate disposal facilities. G03.00-0137 TG03 Question 0137 - Unforseen Or Differing Conditions From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: Reference specification 00 03 20-1, 1.5A. "Refer to section 00 08 11 Unforseen or Differing Conditions." This section is	From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan						• 🖂
From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Construction Compan Daphne Faulkner Answered By:Transbay Joint Powers Au Gerry MacClelland REQUEST: Reference specification 00 03 20-1, 1.5A. "Refer to section 00 08 11 Unforeseen or Differing Conditions, for the differing site conditions." This section is To: Turner Construction Compan Daphne Faulkner Answered By:Transbay Joint Powers Au Gerry MacClelland Conditions of Differing Substitution of Differing Conditions of Differing Substitution of Differi	Reference specification 01 13 50 and 31 00 00. Specification Section 01 13 50 requires management of existing soils consistent with the Contract Documents. Specification 31 00 00 1.3.J states the Testing Agency is an, "Independent testing and inspection organization complying with ASTM E32 and employed by the TJPA to perform verification and testing¿" Please confirm that TJPA will perform testing and will pay the cost for analytical testing associated with soil characterization of Class I and Class II material if required by the appropriate	SUGGESTION:		Confirmed. Pl	ease note that S	Section 01 13 50		
Reference specification 00 03 20-1, 1.5A. The section entitled "Unforseen or Differing Conditions" is found in Section 00 07 00.3.05. "Refer to section 00 08 11 Unforeseen or Differing Conditions, for the differing site conditions." This section is	From: Webcor/Obayashi Joint Venture Manuel Saldana							, _—
	Reference specification 00 03 20-1, 1.5A. "Refer to section 00 08 11 Unforeseen or Differing Conditions, for the differing site conditions." This section is	SUGGESTION:		The section e	ntitled "Unforse	en or Differing		



per Addendum No. 2 and does not contain spaces for us to include this information. Is this form going to be revised or are we just to type this information anywhere on the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 800 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact I	Procee	
TG03.00-0138	TG03 Question 01	38 - Schedule		Closed	08/31/2010	09/07/2010	09/09/2010	Potentially	, [
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compar	Daphne Faulkner	Answered B	y:Webcor Constr	uction LP Joar	nne Filipas	
Co-Author:									
REQUEST: Reference Exhibit A (NTPs). There are no set dates for NTP's 6-10 and they are contingent on follow on Trade Subcontractor schedules. All of the excavation is required to be completed in 2014. Are NTP's 6-10 going to be issued in a timely manner to ensure the subcontractor is not waiting idle?				per the most concept sche duration for b	Accept Sugg schedule include current construct dule indicates ar racing removal. onse TG0300-01	s the construction documents. n approximate st	The		
TG03.00-0139		39 - Access Trestle		Closed	09/01/2010	09/08/2010	09/07/2010	Potentially	'
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compar	Daphne Faulkner	Answered B	y:Webcor Constr	uction LP Joar	nne Filipas	
Co-Author:									
	ent 3. Please confirm ess trestle must be ab ions.		SUGGESTION:		Attachment 3	Accept Sugger of the Access . Refer to Section ess trestle shall ructure.	Trestle" in Exhib n IV. C., Base S	cope	
TG03.00-0140	TG03 Question 01	40 - Business Tax Regi	stration	Closed	09/01/2010	09/08/2010	09/13/2010	Potentially	,
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compar	Daphne Faulkner	Answered B	y:Webcor Constr	uction LP Joar	nne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Subparagraph D., B 6. Statutory Bidding Registration that was states "Bidder shall number on the Busin (Section 00 04 54) it registration certificat contractor license no registration certificat	to Part III. Instruction of idding Process and P. Requirements, Subite s changed per Adden list its current contract ness Tax Registration as San Francisco busine number, as well as umber and San Francie number for each Suntract list". This form well adding the substantial struct of the substantial structure of the substantial stru	rocedures, Item em b) Tax dum No. 2 and tor license Declaration ness tax the current isco business tax ubcontractor			Certificate is	ractor license and not required on the Declaration. This	he Business Tax		



TG03.00-0143

From: Webcor/Obayashi Joint Venture

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

801 of 1053

30100

Time: 10:53 AM

30100 - Transbay Transit Center Project

	9	•			
lumber Subject	Status	Date Date Created Required	Date d Answered	Cost Impact	Procee
form?					
G03.00-0141 TG03 Question 0141 - Bid Forms	Closed	09/01/2010 09/08/20	10 09/07/2010	Potential	ly 🗌
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:Webcor Co	onstruction LP Joan	ne Filipas	
Co-Author:					
REQUEST:	SUGGESTION:	ANSWER: Accept S	Suggestion:		
Reference is made to the various forms that were revised per Addendum No. 2 (i.e. Acknowledgment of Receipt and Review - Project Bidding Manual; Bid Form and Schedule of Bid Prices; Bidding Checklist (BCL); Bid Bond Form; etc). All these form now have "FINAL FOR ADDENDUM" stamped across them. Is it your intent that we submit these forms as is or are you going to be providing us with a separate Bid Package of these forms without this reference stamped across them?		The bidder shall submit the forms, whether the forms documents or an Addender	are in the original bid		
G03.00-0142 TG03 Question 0142 - Schedule	Closed	09/01/2010 09/08/20	10 09/08/2010	Potential	ly 🗌
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:Webcor Co	onstruction LP Joan	ne Filipas	,
Co-Author:	·			•	
REQUEST:	SUGGESTION:	ANSWER: Accept 9	Suggestion:		
Owner response to question TG0300-0080 is incomplete. The BSE concept schedule does not contain any information concerning the removal of the access trestle nor the temporary streets. Further, the concept schedule provided shows no work activities beyond the construction of the lower concourse walls. Please provide specific information regarding the expected dates for these NTP's so the bidders can estimate the total costs for performing this work.		Refer to response TG030			

To: Turner Construction Compan Daphne Faulkner

Closed

09/01/2010

09/08/2010

Answered By: Webcor Construction LP Joanne Filipas

09/08/2010

Potentially

TG03 Question 0143 - Long Form Subcontract

Manuel Saldana



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 802 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber Subject			Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
Co-Author:							
REQUEST:	SUGGESTION:	A	ANSWER:	Accept Sug	aestion:		
Reference Exhibit B "Long Form Subcontract". Some of the terms and conditions that were provided in the Long Form Subcontract to be utilized as the written agreemer between Webcor/Obayashi and the low bid Subcontract are overly burdensome, unacceptable and potentially no in conformance with statues and regulations. Please confirm that mutually agreeable terms can be negotiated with Obayashi/Webcor prior to the bid date for the Proje	or t	F	Refer to respo	onse TG0300-01			
If the terms and conditions for the Subcontract are not negotiable, then we regret to inform you that we will not able to supply a bid for this Project.	pe						
G03.00-0144 TG03 Question 0144 - CDSM	CI	losed 0	09/01/2010	09/08/2010	09/07/2010	Potential	ly 🗌
From: Webcor/Obayashi Joint Venture Manuel Sa	dana To: Turner Construction Compan Daphne	e Faulkner 💮 🗚	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:	A	ANSWER:	Accept Sug	gestion:		
The CDSM wall requires no vertical interruptions in its drilling path, the utilities will have to wait until a portion of the CDSM wall is complete. Once a portion of CDSM wais complete then relocation may happen and the utilities will have to be cored through the CDSM wall. Why is the owner relocating the utilities prior; and just not wait until portion of CDSM is in before locating?	III	L w ir	Jtility relocation will remain uni	on is sequenced interrupted durir	wings for Sequen d such that utility ng shoring wall im 3 for these ref	service	
G03.00-0145 TG03 Question 0145 - Schedule	CI	losed 0	09/01/2010	09/08/2010	09/08/2010	Potential	ly 🔲
From: Webcor/Obayashi Joint Venture Manuel Sa	dana To: Turner Construction Compan Daphne	e Faulkner 🔑	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:							
REQUEST: Zone 2 NTP within 235 cd of NTP 1 Finish within 570 cd	SUGGESTION:	lt s	same time or,		nes complete at edule in Exhibit A		



Reference specification 01 15 70.

Reference spec sections 2.1 E, 2.5 A, & 2.5 C. These

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

803 of 1053 11/05/2013

Time: Job:

Section 01 15 70.2.1E will be revised in an addendum to delete the words "and to separate traffic lanes and construction areas" at the end of the paragraph.

10:53 AM 30100

lumber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Zone 3 NTP within 265 cd of NTP 1 Finish within 535 cd							
From NTP1 800 cd							
Is requirement to have zone 3 completed prior to the owners true intent?	zone 2						
G03.00-0146 TG03 Question 0146 - Uti	lities	Closed	09/02/2010	09/09/2010	09/03/2010	Potentia	lly
From: Webcor/Obayashi Joint Venture Man	uel Saldana To : Turner C	onstruction Compan Daphne Faulkner	r Answered B	y: Transbay Join	t Powers Au Geri	y MacClellar	nd
Co-Author:							
REQUEST:	SUGGESTIO	N:	ANSWER:	Accept Sug	gestion:		
Reference specification 02 41 01, 3.3.C.1. 1. referenced Specifications states, "Contractor remove and dispose of as the Contractor's proper San Francisco Fire Dept's (SSFD) Auxillary Water System (AWSS) High Pressure Piping in accordate (AWSS) standard plans and specifications" Please identify which lines are the AWSS lines are abatement procedures will be required. 2. Please confirm the existing 16" HPG line indicated.	ty the r Supply nce with nd if any		site identify the cross streethe cross streethe AWSS pipes procedure is consistent with	ne AWSS lines the ets (First Street come in 12 ft. le the contractor's the section 02 41	s posted on the hat will be aband and Beale Streeingths. The abat mean and metho 01.3.3C2 and 3. ding abandoned	oned in t). The ement ods, Refer	
Survey drawing sht. 4 of 10 will be relocated and/abandoned prior to construction. G03.00-0147 From: Webcor/Obayashi Joint Venture Man Co-Author:	iffic Routing	Closed onstruction Compan Daphne Faulkner	09/02/2010 r Answered B	09/09/2010 У :Transbay Joint	09/02/2010 t Powers Au Geri	Potentia y MacClellar	· 🖂



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

804 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
sections state that Triton Barriers (or equal) must be used to separate traffic and pedestrians from construction areas, as well as traffic and pedestrians from each other. It also states that K-rail may not be substituted or used in conjunction with them. It is the contractors understanding that this means the entire perimeter of the job site will have to be barricaded off using Triton barriers and not K-rail. Please confirm.							
G03.00-0148 TG03 Question 0148 - 301 Mission Wall From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan	Closed Daphne Faulkner	09/02/2010 Answered By	09/09/2010 :Adamson Asso	09/04/2010 ociates, Inc. Geor	Potentiall	ly
Co-Author:	·	•			·		
REQUEST: Reference 301 Mission St. Drawings, drawing sheet GT-5102. The Temporary Shoring and Earth Retention Drawings for 301 Mission St. show a grade beam on K line in Section 1 Drwg. SH-32 under the screening wall that is to be relocated by others, it appears that this grade beam carries through the parking structure as shown in Section 2 Drwg. SH-31 and Section 9 Drwg. GT-5102 of these bid documents. Please confirm this grade beam will be demolished prior to CDSM Shoring wall obstruction removal and Geotechnical Monitoring Instrumentation. In Transbay Demolition Plans, drawing # D1060, and D1076, show the backfill material fill to first floor elevation in the area adjacent to 301 Mission Building. In BSE Plans, drawing # GT5000 shows the backfill material fill to about basement slab elevation. Please confirm which one is correct?	SUGGESTION:		the 301 Mission should not inter Transit Center GT-5000 is co	on side of the pro- erfere with instal CDSM shoring	ow the grade bea operty line and thation of the Trar	nerefore nsbay he	

TG03.00-0149

TG03 Question 0149 - Geotechnical Report

Closed

09/10/2010

09/08/2010

Potentially

09/03/2010

Answered By: Webcor Construction LP Joanne Filipas

Co-Author:



installed piles.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

represents the design drawings prepared by the design engineer. Since the project was terminated 805 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

	<u> </u>	•
lumber Subject	Status	Date Date Cost Created Required Answered Impact Proces
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference plan sheet GT-5100, notes 11 and 12.		Refer to Section 00 03 20, Geotechnical Data, for the procedure to obtain the report.
On sheet D-5100 of the plans notes 11 and 12 reference "draft report results of the prototype test program installation of shoring walls using the cement deep soil mixing method" and "prototype test program and monitoring during construction of drilled shafts." How can I obtain these reports? Are they available online? Please send response to (e-mail address). Thank You.		procedure to obtain the report.
Submitted by Jesse Johnson Becho Inc 09/02/2010		
G03.00-0151 TG03 Question 0151 - Demolition	Closed	09/03/2010 09/10/2010 09/09/2010 Potentially
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Webcor Construction LP Joanne Filipas
Co-Author:		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Drawings D-2210, D-2211, D-2212 and D-2213 are showing to remove existing pile caps and piles. But there are no details regarding which ones are timber and which ones are concrete. Please clarify. Submitted by Aparna Alla		For information on existing pile caps and piles, refer to Existing Terminal and Ramps original construction drawings: San Francisco-Oakland Bay Bridge Railway Facilities. State of California Department of Public Works, March 1937 and February 1939. See Section 00 03 31, paragraphs 1.2.D.1 and D.8.
Shimmick / Skanska / Traylor JV (SST) 09/02/2010		Fyfe, David (URS Corporation)
G03.00-0152 TG03 Question 0152 - Demolition	Closed	09/03/2010 09/10/2010 09/08/2010 Potentially
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:Transbay PMPC Gerry MacClelland
Co-Author:		
REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
Reference documents for the (E) 80 Natoma Piles and Shoring wall don't match. Document #3 - 80 Natoma Installed Piles and Document #5 - 80 Natoma Foundation and Structure Plans show a difference of over 400		Based on the information provided by the documents listed in Section 00 03 31, paragraphs 1.2.A.3. & 1.2.A.4, it appears that 1.2.A.2 represents the ¿as-built; condition of piling at 80 Natoma, and 1.2.A.4



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

806 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

			30100 - Tran	<u> </u>					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	ich document shows th r the (E) 80 Natoma str					mpletion, it is like are installed.	ely that not all the	design	
Submitted by Apar Shimmick / Skansk 09/02/2010	na Alla ka / Traylor JV (SST)				reference do only. The TJI the reference representation conditions in representative different conditions conditions the representative different conditions.	cuments are ava PA does not ware documents, not on, either express dicated in the dra re of those existinditions may not co portions differen	this section, these illable for information and the completer of does it make any so or implied, that the swings or records ag at the Site, or the occur or materials at from those indicates.	on ness of ne are nat other	
					See also res in response s		¿ question TG030	0-0101	
TG03.00-0153	TG03 Question 01	53 - Pile Removal		Closed	09/03/2010	09/10/2010	09/07/2010	Potentia	lly
From: Webcor/Oba	yashi Joint Venture	Manuel Saldana	To: Turner Construction Comp	oan Daphne Faulkner	Answered B	y :Adamson Ass	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
buttress area have	says that the existing pi to be removed and it re natic diagrams of pile re	efers to Drawing			There are loc Ground Defo	cations noted on rmation Control	tragraphs 3.1 B ar the drawings whe Methods may be u	re Non- ısed,	
to be removed by of 5301 and all the of	only the piles in the but one of the methods spe her piles can be remov- ified in Stage 4 of Drav	ecified in GT- red during			35-1.	on sneet G1-210	03, along wall seg	ment	
Submitted by Apar Shimmick / Skansk 09/02/2010									

TG03.00-0154 TG03 Question 0154 - Buttress From: Webcor/Obayashi Joint Venture

Co-Author:

Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Closed

09/03/2010 09/10/2010 09/07/2010 **Potentially**

Answered By: Adamson Associates, Inc George Metzger



Drawing GT-5201 and GT-5202 shows that the shafts gets extended to Working Platform. If so, the shaft above the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

As shown on the drawings, Type "A" and "B" concrete are placed to the elevation noted on GT-5201 with the

807 of 1053 11/05/2013

Time:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Installation sequence Notes 6 &7 in Drawing GT-2201 states that Primary Shafts C/4, C/6, C/8 and Secondary Shafts C/5 and C/7 shall be filled with concrete from bottom of shaft to ground surface (elevation +17.00 +/-2.00) which contradicts with the detail 1 on GT-5201 and	SUGGESTION:		be filled as not		afts C/4 thru C/8 a 7 on GT-2201; al		
Detail 16 on GT-5202. Details on GT-5201 and GT-5202 show that the shafts get filled with concrete to subgrade elevatio(i.e.,bottom of excavation -45.00 +/- 2.00) Please clarify the top elevation of concrete in shafts. Submitted by Aparna Alla							
Shimmick / Skanska / Traylor JV (SST) 09/02/2010							
G03.00-0155 TG03 Question 0155 - Buttress		Closed	09/03/2010	09/10/2010	09/07/2010	Potential	ly 🗌
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Da	aphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Drawing GT-0000 and GT-2201 say that Secondary Shafts gets filled with Type "A" (6000 psi) concrete and Primary Shafts gets filled with Type "B" (2000 psi) Concrete.					rrect. The legend	on GT-	
The legend for Primary and Secondary Shafts on GT-5201 contradicts with the above detail.							
Please clarify.							
Submitted by Aparna Alla Shimmick / Skanska / Traylor JV (SST) 09/02/2010							
7000 Quarter 0450 Post		Olesed	00/00/0045	00/40/0045	00/07/0046	Data at 1	
G03.00-0156 TG03 Question 0156 - Buttress From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Commercial	Closed	09/03/2010	09/10/2010	09/07/2010	Potential	іу 📗
From: webcor/Obayashi Joint venture Manuel Saldana Co-Author:	To: Turner Construction Compan Da	арппе нашкпег	Allowered By	Adamson Asso	ociates, Inc Georg	je ivietzger	
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Specification section 00 08 13 1.6 B states that the

Contractor shall comply with Ordinance #175 91, Article

21 of the SF Municipal Code restricting the use of potable

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

The restriction is limited as defined in the code. The

contractor is allowed to obtain water from SFPUC for

use in the drilled shaft work.

808 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

	30100 - 11ai		Date	Date	Date	Cost	
umber Subject		<u>Status</u>	Created	Required	Answered	<u>Impact</u>	Procee
subgrade elevation shows it getting filled with 300 PSI CLSM, but per drawing GT-2201 it calls for Type "A" in the primary shafts and Type ¿B¿ in the secondary shafts up to ground surface?			Secondary Sh	Primary Shafts C nafts C/5 and C/ equence Notes.	5/4, C/6, and C/8 a 7, as noted on GT	and ⁻ -2201,	
Please clarify. Submitted by Aparna Alla Shimmick / Skanska / Traylor JV (SST) 09/02/2010							
G03.00-0157 TG03 Question 0157 - Shoring Wall		Closed	09/03/2010	09/10/2010	09/07/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
REQUEST: On dwgs GT-2101, 2102, 2103 calls for sectional details for CDSM wall which gives the details about pre-trenching. As per the Specification 31 56 13, the contractor shall construct a trench along the entire alignment of the shoring wall& cut-off walls. But for walls X2-1, J/12.3 -13, A/19-25, A/25-26, A/26-30, A/30-33.5, A/33.5-35, J/25-27, J/33.5-35, 35-1&cut-off walls do not have any pre-trenching details shown. Can the contractor assume that the walls with no pre-trenching details do not require any pre-trenching? Submitted by Aparna Alla Shimmick / Skanska / Traylor JV (SST) 09/02/2010	SUGGESTION:		the shoring won sheets GT adjacent proper proximity of the trenching, shore along	alls and the cut- -5103 thru GT-5 erties for the pu ne work to the ac oring wall installa	g the entire alignr off walls. The sec 105 are taken at rpose of showing djacent property. ation, excavation, segments regard	Pre- etc., is	
G03.00-0158 TG03 Question 0158 - Specific Project From: Webcor/Obayashi Joint Venture Manuel Saldana Co-Author:	ct Requirements To: Turner Construction Comp	Closed oan Daphne Faulkner	09/03/2010 Answered By	09/10/2010 /: Transbay Joint	09/07/2010 : Powers Au Gerry	Potential MacClellan	,
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		



Co-Author:

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

809 of 1053 11/05/2013

Time: Job:

Answered By: Webcor Construction LP Joanne Filipas

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject	<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proce
water for soil compaction and dust control activities. Does this specification also apply to water being used for drilled shaft excavation?						
Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 09/02/2010						
TG03.00-0159 TG03 Question 0159 - Temporary Bridge	Closed	09/03/2010	09/10/2010	09/13/2010	Potential	ly 🔲
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:	Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Schedule A on S1-3201 identifies top of structure elevations. When these elevations are cross referenced against the elevations of the cross streets the temporary bridges that tie into it will be several feet above grade, unless there is a provision for a concrete "leave out" Drawing A 5206 shows First Street Elevation at 14.94. The		the Ground Flo to show all top Utility corridors	oor Slab. The soor structual eless are to be prov	f structural elevationed is not invations. ided at the cross Where required,	ended	
top of structure at this zone is from 12.79' to 13.47', this allows less than 2' for the temporary bridge installation. Depending on the final Temp. bridge design and clearance necessary to construct box structure below the bridge		utility corridors slabs. See arc	, which are low	ed over the area of er than the adjact ings A1-6000, Afterence.	ent	
deck may be as much as 6' above the city street. Is it the owners intent to ramp up on the city street to the temp bridge elevation? If so what is the max grade allowed for the approach ramp?				erred to in the info e BSE package.	ormation	
Also, please comment on the intent for side sloping, access for business, support of fill, etc. This condition applies to Beale street as well.		street grades v	vithout significa will avoid the n	set to tie into exi int changes in ele eed for side slop	vation.	
Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 09/02/2010						
TG03.00-0160 TG03 Question 0160 - Schedule	Closed	09/03/2010	09/10/2010	09/08/2010	Potential	lv 🗆

To: Turner Construction Compan Daphne Faulkner



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

810 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
BSE Concept So conclude with "V	0300-0080 indicates , "F hedule" BSE Concept s erticl Walls (2nd Lift) to or being "(Finish) Below	chedule zones Ground Level"	SUGGESTION:		ANSWER: Refer to respo	Accept Sug onse TG0300-0			
the Below Grade described in NTF		oval activities r completion of the							
TG03.00-0161 From: Webcor/Ol	TG03 Question 0	1161 - Water Discharge Manuel Saldana	To: Turner Construction C	Closed	09/03/2010 Answered B	09/10/2010 V: Transbay Join	09/07/2010 at Powers Au Gerr	Potentia v MacClellar	• 🖂
Co-Author:	•				·	,		,	
Addendum No. 2	fication 01 14 10/APA-4 states that TJPA will rests associated with the rol.	eimburse the	SUGGESTION:		responsibility plans needed		ted to permits The cost of develormits are the Trace		
Contractor for co Stormwater Poll General Permit f	nat the TJPA will reimbusts associated with the ution Prevention Plan as or Stormwater Discharg	preparation of the required by the							
Submitted by Ch Kiewit Infrastruct 09/02/2010									
TG03.00-0162	TG03 Question 0	162 - Site Area		Closed	09/03/2010	09/10/2010	09/08/2010	Potentia	lly 🗌
From: Webcor/Ol	payashi Joint Venture	Manuel Saldana	To: Turner Construction C	ompan Daphne Faulkner	Answered By	y: Transbay Join	nt Powers Au Gerr	y MacClellar	nd



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 811 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

30100 - Transbay Transit Center Project

specification.

Number	Subject		<u>St</u>	atus	Date Created	Date Required	Date Answered	Cost Impact	Proce		
lists the location of available to the Tunot address the a Hump or the area trade/subcontract are not considere with the respective		nd when they are is section does ings as the MUNI. Is the of these areas out areas acquired as become	SUGGESTION:		ANSWER: Accept Suggestion: Section 01 14 19 identifies staging areas outside the construction zone. The "hump" will be made available to the CM/GC as needed for direct construction activities. Currently, it is available to the demolition contractor until spring 2011. After that it becomes available during shoring wall installation activities. Following, this area will be made available to the CM/GC for other ongoing construction activities until such time as development of this parcel is ready for construction. That date is not currently known, but it is not expected to occur before the late months of 2012. The property west of Zone 1 is considered part of the construction site and is currently available to the demolition contractor. It will become available to the CM/GC in spring 2011.						
TG03.00-0163	TG03 Question 0	163 - Temporary Bridge	CI	osed	09/03/2010	09/10/2010	09/08/2010	Potential	lly 🗌		
From: Webcor/Ob	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan Daphne	e Faulkner	Answered By	:Webcor Constr	uction LP Joan	ne Filipas			
Co-Author:			·					•			
includes a section states, "Additiona Access Trestle sh Truck/trailer/Cran A. 5 establishes the providing twenty-f	cess Trestle Criteria, of n titled, Minimum Radiu al spaces at all inner con nall be added for helpin te turn." Temporary Bric he gate requirements we four feet (24') of clear u	s of Corner, which rners of the g lges, 01 53 13 1.3 rith, "Gates nobstructed	SUGGESTION:		around the gar configurations turning radius space for the of	te area consider for truck/trailer/ space. Unneces configurations ca	I configure traffic ing smooth turn crane, including a ssary turning radi an be avoided.	adding us			

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 09/02/2010

Please confirm the intent confirm to add additional space for turning radius to the trestle at the bridges intersections, when the access is restricted by the clear opening of the

center of the bridge."

gates.



REQUEST:

Reference Earthwork 31.00.00, 3.19.B.2 which states

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

The sentence, "Barricades shall be installed at the

ANSWER:

812 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG03.00-0164	TG03 Question 01	164 - Internal Bracing		Closed	09/07/2010	09/13/2010	09/22/2010	Potential	ly 🗌
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
GT-5101, and our In conflict in the TJPA GT-1111 and GT-11 ground surface is 10 but with the West, E from GT-1110 and S 11, + Elevation 6, ar	GT-1110, GT-1111, h-house Design, there Design of the CDSM 12 note that the Max o' max (install) and 13 ast, and Buttress Ear Strut Elevation called and + Elevation 4 and 1 11, produce cases wh	e seems to be a wall. Drawings Cantilever to I' max (removal), rth pressures out at + Elevation the Top of Pile			the following of the thickness of the th	elevations (NAV I) and +8.00 (red and +3.00 (rem and 301 Mission 1.00 (removal).	shall be no lower D88): at Case W moval); at Case oval); at 301 Mis on Podium Case This information	est East ssion +4.00	
A/1-5 +22.0 -11 = 11 1-1 +24.0-11 = 13' tt X1-1 +25.0 -11 = 14 X1-2 +24.0 -11 = 13 J/13-19 +18.0 -6 = 1 J/19-25 +17.0 -6 = 1 J/25-27 +15.0 +4 =1	nat exceeds 10' ' that exceeds 10' ' that exceeds 10' 2' that exceeds 10' 1' that exceeds 10'								
the Owners Design of Cantilever" because +8 west of Grid Line Line 17? Or does the to add an additional Design? Can we get on Drawing GT-111' 14', 13', 12', 11' cant	age 2 on Drawing GT of the CDSM wall car we can dig to a spec 17 and to Elevation e Owners Design nee Strut/Waler Level to a clarification on the 1 and the west end we tilever to the first stru- nd +4 vs the 10' max	n take the "Over cific Elevation of + 7 east of Grid ed to be Revised the Owners Wall 10' max shown alls? Can we use t level elevation							
Submitted by Charle Kiewit Infrastructure 09/03/2010									
ΓG03.00-0165	TG03 Question 01	165 - Excavation		Closed	09/07/2010	09/13/2010	09/08/2010	Potential	
From: Webcor/Obaya	ashi Joint Venture	Manuel Saldana	To: Turner Construction Cor	npan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger	
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 813 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

"Protect newly excavated areas from traffic and erosion...Barricades shall be installed at the tops of the sloped embankments to prevent vehicles and storage loads within seven feet of the tops of the slopes."

- a. Does this specification apply to the top edge of the vertical face main excavation? (i.e. perimeter shoring wall)
- b. If seven foot distance is required (at the top edge of the main excavation), then can it be assumed to start at the inside face of CDSM wall and stop at the outside toe of barrier? If not, then please define start and stop of the seven foot distance.
- c. CDSM wall and excavation occurring on Minna and Natoma streets exist in close proximity to numerous private garages, driveways, and pedestrian entryways. With a further 7 ft setback restriction, this will virtually take the remaing portion of Minna and Natoma street, relegating any traffic along these alleys to existing sidewalks. A specific example would be on Natoma between column lines 14 to 17. Is it the Owner's intent to maintain these setbacks and demolish the existing sidewalks and planter areas by pushing vehicular access closer to the buildings?

Submitted by Charles M. Gardner Kiewit Infrastructure West Co. 09/03/2010 tops of the sloped embankments to prevent vehicles and storage loads within seven feet of the tops of the slopes" in Section 31 00 00, paragraph 3.19.B.2, will be replaced with, "Protection of sloped faces within the area being excavated is the responsibility of the Contractor." This change will be included in an upcoming addendum.

TG03.00-0166 TG03 Question 0166 - Geotechnical

From: Webcor/Obayashi Joint Venture Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Answered By: Adamson Associates, Inc. George Metzger

09/13/2010

Potentially

Co-Author:

REQUEST:

Please provide the design Factor of Safety for skin friction values noted on sheet GT¿]1112 or provide a similar chart for east and west cases that show ALLOWABLE SKIN FRICTIONS for embedded columns or pin piles.

Submitted by Charles M. Gardner Kiewit Infrastructure West Co.

SUGGESTION:

ANSWER: Accept Suggestion:

09/13/2010

09/07/2010

Closed

The skin friction values shown are those which are mobilized by an infinitely stiff pile after 1/2" vertical displacement. The designer of the internal bracing system shall determine the factor of safety appropriate to their design.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

814 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
09/03/2010									
G03.00-0167	TG03 Question 0	167 - Hazardous Material		Closed	09/07/2010	09/13/2010	09/08/2010	Potential	ily
From: Webcor/	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	Transbay Join	t Powers Au Gerry	/ MacClellan	ıd
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Research shov use before 197 lining and mort confirm any ma	cifications 00 03 35 and 00 or that Asbestos is very properties. Abandoned brick sewer ar which could contain astaterials found to contain Astanded under section 00 ns.	obable in mortar lines may have pestos. Please sbestos in this			Section 00 07 reference Sec		is clearly written.	Also	
Submitted by C Kiewit Infrastru 09/03/2010	Charles M. Gardner cture West Co.								
G03.00-0168	TG03 Question 01	168 - Demolition		Closed	09/07/2010	09/13/2010	09/13/2010	Potential	ily 🗌
From: Webcor/	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Com	pan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
of existing timb piles by, "Surve existing timber and removed." Could you clari requirement, and	ection 02 41 19 1.4.E requer pile documentation of early indicating position and the piles and other materials the figure of the intent and purpose of the what "other materials" at the West Cardiner	existing timber to elevation of to be demolished of this			piles are need ground moven is required onl on sheet GT-2 clarify this in a	ed to assist in to nents during pile y for the piles so 202. The spectan addendum. The de demolished ar	n of the existing ti he monitoring of the removal. This sepecified to be ren ification will be re The text "and other and removed" will be	the survey noved vised to er	
Kiewit Infrastru 09/03/2010	cture West Co.								



Webcor/Obayashi Joint Venture

Page: Date:

Job:

815 of 1053

30100

Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

JOINT VENTU	JRE	30100 - Transbay Tran	sit Center Project			
Number	Subject	Status	Date Date Cost Created Required Answered Impact Proce			
TG03.00-0169	TG03 Question 0169 - Demolition	Closed	09/07/2010 09/13/2010 09/15/2010 Potentially			
From: Webcor/C	Dbayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Webcor Construction LP Joanne Filipas			
Co-Author:						
Piles. In the reference show Pile Top a piles are highlig piles where no i lengths, pile top Submitted by Ri	rence documents 80 Natoma St., Installed e document, only a select number of piles and Pile Tip Elevations in Table 1 (these phted in yellow on the drawing). For the information is given, please provide pile o elevations and pile tip elevations. ich Zito anska / Traylor JV (SST)	SUGGESTION:	Reference documents listed in Section 00 03 31 are provided as the basis for the conditions at the site to be encountered. With regard to the bidder's question to this specific reference (00 03 31, paragraph 1.2.A3, Table 1, prepared by T&R and pile layout/numbering sketch prepared by American Pile Driving), Table 1 lists known existing piles and where entries (e.g., date installed, pile length, approx. pile top and approx. pile tip) are absent, bidders may assume piles have not been driven. Where undocumented obstructions and/or interferences are found, see contract provisions for changed site conditions. Fyfe, David (URS Corporation)			
TG03.00-0170	• •	cing at the transverse end walls (Lines 1 ar Closed	09/07/2010 09/13/2010 09/13/2010 Potentially			
	Dbayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Adamson Associates, Inc George Metzger			
Co-Author:						
transverse end	e used for temporary bracing at the walls (Lines 1 and 35)? If so, please quirements or limitations associated with	SUGGESTION:	ANSWER: Accept Suggestion: Use of tiebacks in walls adjacent to grid line 1 and 35 is not acceptable due to the complexity of the site conditions, which include adjacent properties and an existing shoring wall, and the quality of the soils.			
Submitted by Ri Shimmick / Ska 09/07/2010	ich Zito anska / Traylor JV (SST)					
TG03.00-0171	TG03 Question 0171 - Internal Bracing	Closed	09/07/2010 09/13/2010 09/17/2010 Potentially			
From: Webcor/C	Dbayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:Adamson Associates, Inc George Metzger			
Co-Author:						
REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion:			
will increase the	estion TG0300-0058, preloading the struts e effective stiffness of the bracing system pre-compressing the struts).		We do not believe that preloading increases the effective stiffness of the struts. The struts will expand and contract due to temperature variations and this			



Reference Exhibit A, Section IV.C.14 (p. 10).

Webcor/Obayashi Joint Venture

Page: Date:

Job:

Note 10 on D-0001 (and similar notes on others drawing sheets) requires Contractor to provide means 816 of 1053 11/05/2013

30100

Time: 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

33111 12111311			30100 -	Transbay Transi	t Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
¿áverage stiffness in the lower right-ha (2) Can preload val Tables 1 through 4 effective stiffness of Submitted by Rich Shimmick / Skansk 09/07/2010	a / Traylor JV (SST)	rut; per the note 1? e specified in to increase the			stiffness, but the temperatu loading to acc sizes.	we do not believ ure at the time of count for this wh	ing the effective re it is feasible to f installation and en selecting the i	pre- member	
TG03.00-0172	TG03 Question 0		-	Closed	09/07/2010	09/13/2010	09/09/2010	Potentia	ily
From: Webcor/Oba Co-Author:	ashi Joint Venture	Manuel Saldana	Io: Turner Constructi	on Compan Daphne Faulkner	Answered By	y :Webcor Const	ruction LP Joan	ne Filipas	
¿concept schedule the schedule activit complete or binding each Completion D on Trade Subcontre Project.¿ Are the E Zones the ¿manda above? Submitted by Rich	A, Section V. In refere ¿ (Exhibit I), it is state ies should not be ass g work plan ¿ it is rate be met so as not actors or the Critical F xcavation Finish Date tory ¿ Completion Date Zito a / Traylor JV (SST)	ed that although numed to be a mandatory that to impact follow- Path of the es for each of the	SUGGESTION:		ANSWER: Yes, the dura 2-5 are mand		gestion: n the milestones	for NTP	
TG03.00-0173 From: Webcor/Oba	TG03 Question 0 yashi Joint Venture	173 - Demolition Manuel Saldana	To: Turner Constructi	Closed ion Compan Daphne Faulkner	09/07/2010 Answered B	09/13/2010 y: Transbay PMF	09/27/2010 PC Alfre	Potentia d Lau	lly
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 817 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed Exhibit A states: ¿Existing temporary shoring wall installed for temporary ground support as required and as by Existing Terminal and Ramps Demolition Contractor at necessary to protect adjacent ground when excavation the eastside of Fremont Street shall be removed and demands such protection. One example of this disposed in accordance with the Contract Documents.¿. requirement is the pre-trenching activities prior to installing CDSM wall as required per note 11 on GT However, the Terminal Demolition Plans include notes 2101 (and similar notes on other sheets). The temporary shoring walls installed for excavation by this stating that ¿... Contractor to furnish and install shoring and bracing as necessary to ensure no adverse impacts to Work will need to be removed by this trade contract as adjacent roadways and building. ¿ These notes seem to part of underground structure demolition and clearing apply to the entire perimeter of the existing building and per the same note 10 on D-0001. not just to the eastside of Fremont St. Please clarify if the TG03 Contract includes removal of the previously installed shoring and bracing along the eastside of Fremont Street only, or also around the entire perimeter of the existing terminal structure. Submitted by Rich Zito Shimmick / Skanska / Traylor JV (SST) 09/07/2010 TG03.00-0174 TG03 Question 0174 - Shoring Wall Closed 09/07/2010 09/13/2010 09/13/2010 Potentially From: Webcor/Obayashi Joint Venture Answered By: Adamson Associates, Inc George Metzger Manuel Saldana To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Will it be permissible to shed bracing loads from the Submitted by Rich Zito Diagonal bracing at the corners of the excavation is transverse end walls (near Lines 1 and 35) into the Shimmick / Skanska / Traylor JV (SST) acceptable. See Note 11 on GT-1111. longitudinal CDSM walls (Lines A and J)? If this is 09/07/2010 acceptable, please indicate if there are any limitations or restrictions on the design assumptions regarding the amount of load that can be shed over a given length of wall.

TG03.00-0175 TG03 Question 0175 - Shoring Wall

Answered By: Adamson Associates, Inc George Metzger

09/17/2010

Potentially

09/13/2010

09/07/2010

Co-Author:

From: Webcor/Obayashi Joint Venture Manuel Saldana

To: Turner Construction Compan Daphne Faulkner

Closed



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 818 of 1053 11/05/2013

Time: Job:

Note the maximum spacing of rebracing elements is to

be modified in Addendum 3.

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: The response to previous question TG0300-0054 states that the rebracing loads can be determined based on the information provided on GT-1110. Please identify the specific information on GT-1110 that is to be used to determine these loads. We note that the computation of these loads will depend upon the assumed degree of CDSM wall fixity at the base slab, the assumed distribution of seismic loads, as well as, other inherent assumptions. The CDSM wall analysis and design computations (which we assume must have included an analysis of the bracing removal/rebracing stages) have not been made available to the bidders so it is not possible to ascertain the basic loading and support conditions assumed by the CDSM wall designer for the bracing removal/rebracing conditions. We recommend that the static and seismic components of the rebracing design loads be provided so that all bidders are designing the rebracing for bracing demands that are consistent with the CDSM wall designer as computations. Submitted by Rich Zito Shimmick / Skanska / Traylor JV (SST) 09/07/2010		SUGGESTION:		that the total of does not char of the excava need to control out stages. The struts and the propping the struts are the structure of the structure	compressive for nge from that ob- tion case. This i ol ground move ne soil loads on permanent stru shoring wall can	ide-out case indicate due to soil prestained from our as compatible with ments during the temporary reactural elements us be determined by ure diagrams on o	ssure nalysis the ouild- bracing sed for		
TG03.00-0176	TG03 Question	0176 - Below Grade Structui	re	Closed	09/09/2010	09/09/2010	09/08/2010	Potential	lly 🗌
From: Webcor Co	onstruction LP	Michael Constable	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Adamson Ass	ociates, Inc Geor	ge Metzger	
Co-Author:									
steel in the perm portion of the wa rebracing rakers. Submitted by Rid		ete walls so that a spread loads to the	SUGGESTION:		that would alle Contractor-pre and supportin shall comply of Documents a	ow the concrete oposed design s g design data. with requiremen	propose a waler d wall to act as a w shall include calcu All aspects of the ts in the Contract ttent of the buildin	valer. Ilations design	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

819 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
ΓG03.00-0177	TG03 Question 01	177 - Internal Bracing		Closed	09/07/2010	09/13/2010	09/16/2010	Potential	y 🗌
From: Webcor/	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	Transbay Joint	Powers Au Gerry	y MacClellan	d
Co-Author:									
REQUEST: Reference dra	wing sheet GT-2101.		SUGGESTION:		ANSWER: It is anticipate	Accept Sug	gestion:	t will	
was unanswer	vious question TG0300-008 ed: of excavation in Zone 1 will	•			occur prior to	the start of insta	allation.		
Submitted by F Shimmick / Sk 09/07/2010	Rich Zito anska / Traylor JV (SST)								
ΓG03.00-0178	TG03 Question 01	178 - Micropile		Closed	09/07/2010	09/13/2010	09/08/2010	Potential	у 🗌
From: Webcor/	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST: Reference dra	wing sheet S1-3003.		SUGGESTION:		ANSWER: (1) Yes.	Accept Sug	gestion:		
	tes that the micropile desig in this case, by the micropi				(2) Yes.				
	opile subcontractor respons anchorage in the concrete b								
` '	opile subcontractor respons d installing micropile ancho								
Submitted by F Shimmick / Sk 09/07/2010	Rich Zito anska / Traylor JV (SST)								
ГG03.00-0179	TG03 Question 01	179 - Shoring Wall		Closed	09/07/2010	09/13/2010	09/08/2010	Potential	у 🗌
From: Webcor/	Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
•	rout sheet GT-2101 shows outh side of the building bet	· ·	SUGGESTION:		ANSWER: This will be re	Accept Sug			



REQUEST:

Sheet GT-1110 shows numerical values for horizontal strut

loads. GT-1110 also shows a design profile. Are we to use

the numerical values shown or are we to calculate loads

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Accept Suggestion:

The "Design Profile" earth pressure was obtained by

by analysis. Therefore, the results obtained using

fitting a trapezoidal diagram to the strut loads obtained

ANSWER:

820 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

		Date	Date	Date	Cost	
Number Subject	Status	Created	Required	Answered		Procee
11 and 13. The CDSM Shoring Wall Schedule (16/GT-5101) does not list this wall segment. Please clarify.						
Submitted by Rich Zito Shimmick / Skanska / Traylor JV (SST) 09/07/2010						
TG03.00-0180 TG03 Question 0180 - Buy America	Closed	09/07/2010	09/13/2010	10/21/2010	Potentia	ily
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered E	3y :Transbay Join	t Powers Au Sara	a Gigliotti	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference specification 00 08 13/APA, paragraph 17.		Temporary construction materials that will be removed from the project, such as steel used in the				
Please clarify the following questions regarding the Buy America requirements as they relate to the SBE Trade Subcontract:			tle and cross stre			
(1) Can manufactured steel products such as wide flange			naterials that will to Buy America.			
sections, pipes, H piles, plate, etc. used in the SBE Trade Subcontract for temporary bracing, trestle and temporary cross street bridge construction be manufactured by foreign sources?		steel that the	e Trade Subcontr is provided at no	actor has on har	nd may	
(2) Can the W sections used in CDSM shoring wall be manufactured by foreign sources?						
Submitted by Rich Zito Shimmick / Skanska / Traylor JV (SST) 09/07/2010						
TG03.00-0181 TG03 Question 0181 - Internal Bracing	Closed	09/07/2010	09/13/2010	09/21/2010	Potentia	lly \square
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered E	3y :Adamson Ass	ociates, Inc Geo		
Co-Author:	·				- •	

SUGGESTION:



09/07/2010

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 821 of 1053 11/05/2013 10:53 AM

30100

Date: 11
Time: 1

					Date	Date	Date	Cost	_	
Number	Subject			Status	Created	Required	Answered	<u>Impact</u>	<u>Procee</u>	
based upon the design profile? Shimmick / Skanska / Traylor JV (SST) 09/07/2010					tributary areas from the "Design Profile" will vary slightly from the strut loads presented in tables 1 thru 4. Tables 1 thru 4 shall be used for strut loads. For seismic increment strut loads, refer to tables 5 thru 8.					
TG03.00-0182	TG03 Question 0	182 - Demolition		Closed	09/07/2010	09/13/2010	09/14/2010	Potential	ly 🗌	
From: Webcor/O	Dbayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Demolition Drawing D-2213 is showing ro remove (E) Fremont Street temporary shoring wall and note 9 on the same drawing says that As - Built information for type and location of temporary shoring wall will be available on or about the first quarter of 2011.					temporary Fre interlocking sl assume a wal 20 feet, and a	emont St. shoring neet pile shoring Il length of 195 fo	may assume the g wall is a conver system. Bidder eet, a retaining he epth of 50 feet fo	may eight of		
Please provide s Dimensions?) re bidding purpose	some information (Sheet egarding this temporary s	piles? horing wall for				JRS Corporation				
Submitted by Ap Shimmick / Skar 09/07/2010	oarna Alla nska / Traylor JV (SST)									
TG03.00-0183	TG03 Question 0	183 - Geotechnical		Closed	09/08/2010	09/14/2010	09/13/2010	Potential	ly	
From: Webcor/O	Dbayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Geor	ge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Report" reference Conditions of the	the "Geotechnical Recom ced in paragraph 6.1.2.2- e Final Geo-technical Da	-Subsurface			"Geotechnical Geotechnical stratigraphy a	I Recommendati Data Report inc nd information of	e is no report title on Report." The ludes a description on the characteriz	Final on of		
Submitted by Gi Shimmick / Skar	reg Overhage nska / Traylor JV (SST)				the major soil	strata.				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 822 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
G03.00-0184 TG03 Question 0184 - Shoring Wall	Closed	09/09/2010	09/15/2010	09/09/2010	Potentiall	y 🗌	
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: A	damson Asso	ciates, Inc Geor	ge Metzger		
Co-Author:							
REQUEST:	SUGGESTION:	ANSWER:	Accept Sugg	gestion:			
GT-5102 & GT-5105 Drawings from GT-5102 to 5105 shows CDSM wall sections with pre-trenching details. As per the scale on these drawings, the pre-trench depth varies from 12' to 25'.	Answered by George Metzger, 9/9/10 Refer to Section 31 56 13, article 3.2 A: "The depth and width of the trench shall be that required to remove the obstructions from the path of the shoring wall."	Answered by George Metzger, 9/9/10 Refer to Section 31 56 13, article 3.2 A: "The depth and width of the trench shall be that required to remove the obstructions from the path of the shoring wall."					
Please confirm.							
G03.00-0185 TG03 Question 0185 - Hazardous Material	Closed	09/09/2010	09/15/2010	09/14/2010	Potentiall	 у	
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:⊺	ransbay Joint	Powers Au Gerry	/ MacClellan	d	
Co-Author:							
REQUEST:	SUGGESTION:	ANSWER:	Accept Sugg	gestion:			
As per the Site Mitigation plan by Treadwell & Rollo, the extent of hazardous of material information is available for the proposed project location except in the CDSM wall segment X1-1 & R2-1 areas. Please provide the related hazardous material information for the above mentioned areas.	Answered by Gerry MacClelland, 9/14/10 At the time the Site Mitigation Plan was drafted there was uncertainty concerning the perimeter of the shoring wall, so a conservative boundary was used which did not cross south of Natoma St. Information on the soil contamination in the area of wall segment X1-1 and R2-1 can be found in the following reference documents:	shoring wall, so a conservative boundary was used which did not cross south of Natoma St. Information on the soil contamination in the area of wall segment X1-1 and R2-1 can be found in the following reference					
	Soil Investigations of 546 Howard and 75 Natoma, ERM West, January 2009 Site Investigation Report, San Francisco-Oakland Bay Bridge West Approach Project Including Transbay Terminal Loop. California: Professional Service Industries, Inc., 1999. (see pg. 43) See Section 00 03 35 for references to these documents.	Soil Investigation ERM West, January Site Investigation Bridge West App Terminal Loop. (Industries, Inc., See Section 00 documents.	uary 2009 n Report, San proach Project California: Pro 1999. (see pg	Francisco-Oakla t Including Trans fessional Service . 43)	and Bay bay		
G03.00-0186 TG03 Question 0186 - Traffic Routing	Closed	09/09/2010	09/15/2010	09/14/2010	Potentiall		
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By:⊤	ransbay Joint	Powers Au Gerr			
Co-Author:	·	-	•	•			
REQUEST:	SUGGESTION:	ANSWER:	Accept Sugg	gestion:			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 823 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
15 70 says that at all the times	e requirements as per the specification 01 at contractor needs to maintain 3 lanes of 11' s on the First Street from Mission to Folsom e intersection of Fremont and Natoma.	Answered by Gerry MacClelland, 9/14/10 Base your bid on maintaining the requirement of 3 lanes of 11 feet each, per the specification.	Base your bid on maintaining the requirement of 3 lanes of 11 feet each, per the specification.					
walls by using	re restrictions, safe operations for CDSM big equipment may not be obtained. Is it contractor to perform the work with half the							
TG03.00-0187	TG03 Question 0187 - Shoring Wall Tr	affic Routing Closed	09/09/2010	09/15/2010	09/13/2010	Potentia	Ily 🗌	
From: Webcor	/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered B	y:Adamson Ass	ociates, Inc Geor	rge Metzger		
Co-Author:								
clear on the production distances between	DSM walls with reference to sidewalks is not rovided GT drawings. Please provide the ween sidewalks and CDSM walls to see the naintaining traffic lanes as specified in 01 15 70.	SUGGESTION:	Answered by George Metzger, 9/13/10 The GT drawings provide the survey control points to locate the shoring wall. The existing condition site survey drawings that show existing streets and sidewalks are included in the bid documents.					
TG03.00-0188	TG03 Question 0188 - SBE Program	Closed	09/09/2010	09/15/2010	09/10/2010	No		
From: Webcor	/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered B	y: Transbay Join	t Powers Au Sara	Gigliotti		
Co-Author:								
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:			
					—			

In specification section 00 08 21 - 1.3.D it states that DBE's currently certified by CUCP, CCSF HRC, & OSOD may participate in the TJPA's SBE Program. Specification section 00 08 21/AT1 states that DBE's currently certified in only CUCP may participate in the TJPA's DBE Availability Advisory Percentage. Please clarify which certification agencies will quality the DBEs & SBEs for the TJPA SBE Program. Also will LBEs certified by CCSF(.) HRC qualify as SBEs under the SBE Program?

Answered by Sara Gigliotti, 9/10/10

As stated in 00 08 21, 1.3.D, DBEs currently certified in the CUCP, as well as SBEs certified by the City and County of San Francisco Human Rights Commission (HRC), and the California Department of General Services Office of Small Business and Disabled Veteran Business Enterprise Services (OSDS) may participate in the TJPA's SBE Program. HRC issues LBE certifications. OSDS issues SBE and DVBE certifications. These count toward participation in the

Answered by Sara Gigliotti, 9/10/10

As stated in 00 08 21, 1.3.D, DBEs currently certified in the CUCP, as well as SBEs certified by the City and County of San Francisco Human Rights Commission (HRC), and the California Department of General Services Office of Small Business and Disabled Veteran Business Enterprise Services (OSDS) may participate in the TJPA's SBE Program. HRC issues LBE certifications. OSDS issues SBE and DVBE certifications. These count toward participation in the



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

824 of 1053 11/05/2013

30100

Time: 10:53 AM

JOINT VENTURE		30100 - Transba	ay rransi	t Center	Project				
Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
		TJPA's SBE Program.		TJPA's SBE Program.					
	00 08 21 also states that the Contractor is responsible for reviewing the policies outlined in the TJPA's SBE Program. The TJPA SBE Program is available on the TJPA website: http://www.transbaycenter.org > TJPA > Doing Business with the TJPA > Small Business Enterprise (SBE) Program. 00 08 21 also states that the Contractor for reviewing the policies outlined in the Program. The TJPA SBE Program is available on the TJPA website: http://www.transbaycente > Doing Business with the TJPA > Small Business Enterprise (SBE) Program.			ned in the TJPA's gram is available sbaycenter.org >	S SBE on the TJPA				
ı <u></u>		Only DBEs (certified in the CUCP) may participate in the TJPA's DBE Program. Only DBEs (certified in the CUCP) may the TJPA's DBE Program.			ICP) may particip	pate in			
TG03.00-0189 TG03 Question	0189 - Utilities		Closed	09/09/2010	09/15/2010	09/13/2010	No		
From: Webcor/Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan Day	Answered By: Webcor Construction LP Marina Rosso						
Co-Author:									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:			
May the Transbay Transit Center Progr Utilities Project drawings be included in as reference drawings?					WO DocContro onse TG0300-01				
TG03.00-0190 TG03 Question	0190 - Geotechnical		Closed	09/09/2010	09/15/2010	09/13/2010	Potential	lly 🗌	
From: Webcor/Obayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan Da	phne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geor	ge Metzger		
Co-Author:									
REQUEST: GT-1110 Drawing (Drawing) GT-1110 contains 4 charts describing heave. What are these charts for? Do these charts detail the max heave we should expect? Was heave included in the owners design?		SUGGESTION:		These diagrar bottom of the soil caused by of the Contrac imposed displ	excavation due to the excavation of the except of the ex		of the sibility ng		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

825 of 1053

30100

Time: 10:53 AM

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
G03.00-0191	TG03 Question 01	191 - Shoring Wall		Closed	09/09/2010 09/15/2010 09/13/2010		09/13/2010	Potentially	у 🗌	
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion:					
Reference specifica	tion 31 56 13.				Answered by	George Metzger	, 9/13/10			
	contractor rely on the o			which satisfies documents. T repairing leaks	s the requirement The Contractor is	for installing a w nts in the contrac s responsible for epair the leak wi r.	ot			
G03.00-0192	TG03 Question 01			Closed	09/09/2010	09/15/2010	09/14/2010	Potentially	у 🗌	
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geo	rge Metzger		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug				
Reference drawing	sheet GT-5202.		Answered by: George Metzger, 9/14	4/10	Answered by: George Metzger, 9/14/10					
sleevestied to the	(4) 4 in. diameter PVC reinforcement steel cocess tubes for the re	age" We assume	The four 4-inch-diameter pipes shorequired.	wn on the plans are	The four 4-inch-diameter pipes shown on the plans are required.			olans are		
Hole Sonic Logging inches in diameter. require 4 in. or that	Test. Usual access to Please confirm that your regular 2 inches in dia) can be used instead	ube size is only 2 ou specifically ameter access	Regarding Question B, #7 circular has with couplers or welded splices are of spiral reinforcement.							
Question B: Can rei regular ring hoops?	nforcement spiral be ı	replaced by								
G03.00-0193	TG03 Question 01	93 - Site Maintenance		Closed	09/13/2010	09/19/2010	09/13/2010	Potentially	у 🗌	
From: Webcor/Obay	ashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Const	ruction LP Mari	na Rosso		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Reference Project B	Bidding Manual, page	34 paragraph 6.			Answered by	W/O Doc Contro	ol, 9/13/10			
shall include in the E	Manual states: "Trad Bid two man-hours of vork. This Labor, prov	cleanup for every			This requirem	ent applies to th	e entire scope o	f work.		



would stack the work. Request earliest start date to

realistically plan our work.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

826 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

3) Refer to response TG0300-0150.

<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Procee
Closed To: Turner Construction Compan, Daphne Faulkner	09/13/2010 Answered By:	09/19/2010 Webcar Constr	09/13/2010		ly
Turner Construction Company Daprine Faulkner	/ in on or our by:	Webcoi Consti	uction Li Waiii	a 110330	
SUGGESTION:	ANSWER: W/O Doc Contr		gestion:		
	Confirmed.				
Closed	09/13/2010	09/19/2010	09/15/2010	Potential	lly
To: Turner Construction Compan Daphne Faulkner	Answered By:	Webcor Constr	uction LP Marin	a Rosso	
SUGGESTION:	ANSWER: Answered by V		·		
	#05.	·	·	# 04,	
	To: Turner Construction Compan Daphne Faulkner SUGGESTION:	To: Turner Construction Compan Daphne Faulkner Answered By: SUGGESTION: Closed O9/13/2010 To: Turner Construction Compan Daphne Faulkner Answered By: SUGGESTION: Answered By: Answered by: Answered by: Answered by: 1) There are no #05.	To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction ANSWER: Accept Sugg W/O Doc Control, 9/13/10 Confirmed. Closed O9/13/2010 O9/19/2010 Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner Answered By:Webcor Construction Answered By:Webcor Construction To: Turner Construction Compan Daphne Faulkner	Answered By: Webcor Construction LP Marin SUGGESTION: Closed O9/13/2010 O9/19/2010 O9/15/2010 Answered By: Webcor Construction LP Marin W/O Doc Control, 9/13/10 Confirmed. Closed O9/13/2010 O9/19/2010 O9/15/2010 Answered By: Webcor Construction LP Marin Answered By: Webcor Construction LP Marin Answered by W/O Doc Control, 9/15/10 1) There are no early start dates for NTP #03, #	Answered By:Webcor Construction LP Marina Rosso ANSWER: Accept Suggestion: W/O Doc Control, 9/13/10 Confirmed. Closed 09/13/2010 09/19/2010 09/15/2010 Potential Answered By:Webcor Construction LP Marina Rosso Answered By:Webcor Construction LP Marina Rosso Answered By:Webcor Construction LP Marina Rosso ANSWER: Accept Suggestion: Answered by W/O Doc Control, 9/15/10 1) There are no early start dates for NTP #03, #04, #05.



Is this report available? If so, how may we access this?

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 827 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

	<u> </u>	-	,	
umber <u>Subject</u>	<u>Status</u>	Date Date Created Requ	Date uired Answered	Cost Impact Proceed
2) What are the durations of Milestones NTP#06 through #7?				
3) How are Milestones NTP #06 through #10 tied to the critical path?				
G03.00-0196 TG03 Question 0196 - Access Trestle	Closed	09/13/2010 09/19	9/2010 09/13/2010	Potentially
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Webco	or Construction LP Marin	a Rosso
Co-Author:				
REQUEST:	SUGGESTION:	ANSWER: Acce	ept Suggestion:	
The Scope of Work for the Removal and Disposal of Access Trestle as described in Exhibit A IV.C.22 indicates,		Answered by W/O Do	oc Control, 9/13/10	
"The Structural Steel Trade Subcontractor shall remove/dispose the Access Trestle above the Lower Concourse slab,¿"			rade Subcontractor shall coess Trestle above the Lo	
Please confirm that the Access Trestle remains the property of the BSE Trade Subcontractor, and will be disposed at a location (within the Bay Area) of their choice.				
G03.00-0197 TG03 Question 0197 - Geotechnical Report	Closed	09/13/2010 09/19	9/2010 09/16/2010	Potentially
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan Daphne Faulkner	Answered By: Adams	son Associates, Inc Georg	je Metzger
Co-Author:				
REQUEST:	SUGGESTION:	ANSWER: Acce	ept Suggestion:	
The Final Geotechnical Data Report prepared by Arup North America Ltd. Article 6.1.2.2 indicates,"A more		Answered by George	Metzger, 9/16/10	
detailed description of stratigraphy and information on the characterization of the majormajor soil strata are presented in the Geotechnical Recommendations report."		Refer to response TG	0300-0183.	



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

828 of 1053 10:53 AM

Time: Job:

30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
G03.00-0198	TG03 Question 01	98 - Site Area		Closed	09/13/2010	09/19/2010	09/13/2010	Potential	ly 🗌
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Consti	ruction LP Marin	a Rosso	
Co-Author:									
REQUEST: Reference Exhibit	A drawings SL-001 & S	SL-002.	SUGGESTION:		ANSWER: Answered by \	Accept Sugg			
Minna and Mission Point" Dwg. SL-00 area. The "Staging does not show this	vs the area bounded by a Sts. as an "Emergence 2 shows outbound truck parcels" sketch in Sec a area. Is this area avail se by the SBE Subcontions on its use?	y Gathering ks exiting this ction 01 14 19 able for			Refer to respo	nse TG0300-01	62.		
G03.00-0199	TG03 Question 01	99 - Retention		Closed	09/13/2010	09/19/2010	09/14/2010	Potential	ly
From: Webcor/Oba	ayashi Joint Venture	Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay Joint:	Powers Au Gerry	MacClellan	d
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Answer	s to Pre-Bid Meeting Q	uestions.			Answered by 0	Gerry MacClella	nd, 9/14/10		
for the duration of rather than the ent Subcontractor's so placing of the rat s continue until the S shoring/bracing rel complete. The schother Trade Subcothe entire scope of unknown. Will Wel attributable to all w	estion 13 says that retereach subcontractor's so irre project. Most of the cope of work will be complete. However, the consider subcontractor's resmoval and trestle/bridge sedule for this work is contractors and the complete for the SBE Trade Subconbcor/Obayashi release work completed up until the placing of the rat significant subcorious and the rat significant subcorious and the subcorious and the complete subcorious and the subcorious and the complete subcorious and the subcorious	cope of work SBE plete with the tract will sponsibility for e removal is ontingent on oletion date for ntract Package is retention the placing of			described in 0 states "the CM retainage for it of retention rel	M/GC must proposts Trade Subcorpleased upon place the amount to	be reduced as section 00 05 20.5 ortionately reduce htractors." The arcement of the rate of the Trade Control	nount slab	
G03.00-0200 From: Webcor/Oba	TG03 Question 02 ayashi Joint Venture	200 - Temporary Lighting Manuel Saldana	To: Turner Construction Compan	Closed Daphne Faulkner	09/13/2010 Answered By	09/19/2010 :Webcor Consti	09/13/2010 ruction LP Marin	Potential	ly
Co-Author:									

SUGGESTION:



bidders, as soon as possible, in order to clarify and resolve the major issues of concern. We also requested that the bid due date be postponed by 6 weeks.

We have not yet received a response to our 9/02/10 QBD.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 829 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number <u>Subject</u>	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Reference Exhibit A, Section IV.B.A.18, "Temporary Lighting"		Answered by	W/O Doc Contro	ol, 9/13/10		
Is the SBE Trade Subcontractor responsible for maintaining temporary lighting until the rat slabs are placed or until the end of the SBE Trade Subcontract?		maintaining t	de Subcontractoremporary lighting of the rat slab.	or's responsibility to go will end at the	for	
TG03.00-0201 TG03 Question 0201 - Tax Certific	ate Closed	09/13/2010	09/19/2010	09/16/2010	Potentia	lly
From: Webcor/Obayashi Joint Venture Manuel Salda	na To: Turner Construction Compan Daphne Faul	kner Answered B	y: Transbay Join	t Powers Au Sara	Gigliotti	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Reference is made to Part V, Webcor/Obayashi Bidding	Answered by Sara Gigliotti, 9/16/10	Answered by	Sara Gigliotti, 9			
Forms, Item A. Bidding Check List, Subitem 3. Current Business Tax Registration Certificate. In Addendum 2 you specifically deleted the requirement for us to submit our "Current San Francisco Business License Certificate". You also changed "Current Business Tax Certificate" to "Current Business Tax Registration Certificate". We have various city Business Tax Registration Certificates. Is it your intent for us to only submit our current Business Tax Registration Certificate for "San Francisco".	Per project bidding manual section III.D.6.b, the requirement is for a San Francisco Business Ta. Registration No.		is for a San Fran	ection III.D.6.b, th acisco Business T		
TG03.00-0202 TG03 Question 0202 - Bid Due Dat	te Closed	09/13/2010	09/19/2010	09/13/2010	Potentia	lly
From: Webcor/Obayashi Joint Venture Manuel Salda	na To: Turner Construction Compan Daphne Faul	kner Answered B	y:Webcor Const	ruction LP Marir	na Rosso	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Our QBD sent on 9/02/10 expressed our serious concern with the SBE Trade Package schedule, liquidated damages and other contract terms. We requested that Webcor/Obayashi meet with the SBE Trade Package		·	W/O Doc Contro oonse TG0300-0	ol, 9/13/10		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 830 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
We cannot continue to expend resources on this bid without Webcor/Obayashi acknowledging our concerns and committing to act timely to help resolve them. We ask that Webcor/Obayashi provide us with a response to our 9/02/10 QBD by Friday 9/17/10, otherwise we will have to suspend our estimating effort on Bid Package TG03.							
TG03.00-0203 TG03 Question 0203 - Regulatory Require		Closed	09/15/2010	09/21/2010	09/15/2010	Potential	ly
From: Webcor/Obayashi Joint Venture Manuel Saldana	To: Turner Construction Compan	Daphne Faulkner	Answered By:	Webcor Constr	ruction LP Joans	ne Filipas	ļ
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
Reference section 1 of the Long Form Subcontract (last sub-paragraph); also reference paragraph 2.05 of section	Answered by W/O Doc Control, 9/1	15/10	Answered by V	V/O Doc Contro	I, 9/15/10		
00 05 20 of the Agreement and section 01 14 10 Regulatory Requirements: which require compliance with applicable federal laws and guidelines. Several other specifications (particularly, those relating to health and safety) specifically list specific provisions of the Code of Federal Regulations that the Contractor (and therefore, where relevant, the Trade Subcontractor) must comply with. Provide a list of all applicable federal laws and guidelines (other than those specific provisions of the Code of Federal Regulations that are already included in the General Conditions and other bid documents) that the Trade Subcontractor must comply with on this project. In particular, provide a list of all Federal Acquisition Regulations that apply to Trade Subcontractor's obligations on this project.	Those documents are available in a The project is not subject to the Fe Regulations.				e in the public do le Federal Acquis		

TG03.00-0204 TG03 Question 0204 - Payment

From: Webcor/Obayashi Joint Venture Manuel Saldana To: Turner Constru

To: Turner Construction Compan Daphne Faulkner

Closed

Answered By: Webcor Construction LP Joanne Filipas

09/15/2010

Potentially

09/21/2010

Co-Author:

REQUEST: SUGGESTION:

ANSWER: Accept Suggestion:

09/15/2010



08/16/2010

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

831 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

			00100 110	TISDAY TTATISI	Date	Date	 Date	Cost	
lumber Subjec	t			Status	Created	Required	Answered	Impact	Procee
Reference 4.1 of the Long For paragraph of this provision sta obligation to pay the subcontrathe CM/GC's application for pays the CM/GC. We request provision to comply with the Cagainst pay-if-paid provisions.	tes that th octor until syment and that you c	e CM/GC has no TJPA approves d TJPA actually orrect this			Refer to respo	onse TG0300-01	50.		
G04.5.1-0001 TG0451	Questio	n 0001 - SBE Program		Closed	08/18/2010	08/25/2010	08/23/2010	Potential	ly
From: Webcor/Obayashi Joint	Venture	Manuel Saldana	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	:Webcor Consti	uction LP Joan	ne Filipas	
Co-Author:									
REQUEST: Reference RFQ, p6	Nia far hid	discal la this act	SUGGESTION:		scope of work	or performing w	uded from biddin ork required for t	his	
Is this project only open to SB aside for only SBA bidders?	AS IOI DIO	aing? is this set				of the bidding ma	ticipation is requi anual.	rea per	
Submitted by Heather Kay KJ Woods Construction Inc. 08/16/2010									
G04.5.1-0002 TG0451	Question	n 0002 - SBE Program		Closed	08/18/2010	08/25/2010	08/23/2010	Potential	ly 🗌
From: Webcor/Obayashi Joint	Venture	Manuel Saldana	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	:Webcor Consti	uction LP Joan	ne Filipas	
Co-Author:									
REQUEST: W.A. Rasic is not an SBE. Hor conduct a comprehensive GFE participation (1st, 2nd tier subcan W.A. Rasic bid on this pro	to increa	se overall SBE s, vendors, etc.)	SUGGESTION:		scope of work trade package	or performing w	uded from biddin ork required for t ticipation is requi	his	
Submitted by John Solis W.A. Rasic Construction									



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcorrobayasın John Ventare

Page: Date: 832 of 1053 11/05/2013

Date: Time: Job:

e: 10:53 AM : 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
G04.5.1-0003	TG0451 Question	0003 - SBE Program		Closed	08/19/2010	08/26/2010	08/23/2010	Potential	ly 🗌
From: Webcor/Ob	bayashi Joint Venture	Manuel Saldana	To: Turner Construction	n Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specif	fication section IV, parag	raph #1				tractors are exc	luded from biddin		
We are not a SB on this project TO	SE or DBE are we exclude G04.5.1.	ed from bidding			trade package		work required for the required for the required for the required for the requirement of t		
Submitted by Tor Underground Cor 08/16/2010	m Cornett Instruction Co., Inc.								
G04.5.1-0004	TG0451 Question	0004 - Liquidated Dama	ages	Closed	08/31/2010	09/07/2010	09/08/2010	Potential	ly
From: Webcor/Ob	bayashi Joint Venture	Manuel Saldana	To: Turner Construction	n Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specif	fication 00 05 20-11, 4.02	2.					for any damages		
if project is not so This is for the en	uires \$50,000 liquidated of ubstantially complete mo ntire project and not TG04 of Bid manual and forms out and LD's.	ore than 90 days. 4.5.1. Please			section 7 of th	Subcontractor le long form sub	delays as set fort ocontract.	n in	
G04.5.1-0005		0005 - Project Staffing	•	Closed	08/31/2010	09/07/2010	09/01/2010	Potential	ly
	bayashi Joint Venture	Manuel Saldana	10: Turner Construction	n Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
If we have 61 em full time designat	it H Safety, page 7. nployees work on site, we ted safety persons (DSP n addition to the requirem) on site. Is this			matter on pag Requirements	e 7 - section titl	ides direction on led ¿ Project Stafil 17 00 12.01.B doe ctor for this bid pa	ing s not	



Co-Author:

Manuel Saldana

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Transbay Joint Powers Au Gerry MacClelland

833 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
TG04.5.1-0006	TG0451 Question	0006 - Bid Bond		Closed	08/31/2010	09/07/2010	09/03/2010	Potentia	lly
From: Webcor/Ob	oayashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Biddin document 00 04 3	ng Manual, page 12 para 30-1.	graph 4.C.,				m 1 for correct lot for Trade Sub	Bid Bond Form. Scontractor.	Section	
made to Webcor/	nanual page 12 of 44 req /Obayashi JV. Documen etween TJPA and JV. Ple	00 04 30							
TG04.5.1-0007	TG0451 Question	0007 - BIM & CPM		Closed	08/31/2010	09/07/2010	09/01/2010	Potentia	lly
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specifi	icatoin 01 13 10-2, paraç	graph 13.A			No - Microsof	t Project is not c	ompatible with P	6.	
Contract Require Microsoft Project	es premavera P6 or comp Acceptable?	patible format. Is							
TG04.5.1-0008	TG0451 Question	0008 - Length Of Warranty		Closed	08/31/2010	09/07/2010	09/08/2010	Potentia	lly
From: Webcor/Ob	payashi Joint Venture	Manuel Saldana	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:Transbay Joint	Powers Au Gerr	y MacClellai	nd
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Exhibi	it "B" Warranty, 2nd para	graph.					C. Since it is the		
entire project or o warranty form say	eriod extend to after com only after TG04.5.1 is cor ys indicates after "Filing Il improvements". See att rears.	npleted? The Notice of			once complet for an early S 00 07 00.3.19 generally defi	e, this paragrapl ubstantial Comp C. The period f ned in Section 0	d utilities into sent establishes the establishes the eletion. Also see or the warranty is 1 17 40 as well ans, as stated in 0	basis Section s in	
TG04.5.1-0009	TG0451 Question	0009 - Length Of Warranty		Closed	08/31/2010	09/07/2010	09/08/2010	Potentia	

To: Turner Construction Compan Daphne Faulkner



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

834 of 1053

Time: Job:

10:53 AM 30100

umber	Subject		<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference spe	cification 01 17 40-2, paragraph 1.5.A.			See response	to TGO4.5.1-0	008.		
requires 2 year Draft Subcontr	lank for period of warranty. 01-17-40-2 rs after substantial completion of TG04.5. act agreement seams to indicate warrant on of the entire project. Please Clarify.							
G04.5.1-0010	TG0451 Question 0010 - Mainte	nance Bond	Closed	08/31/2010	09/07/2010	09/03/2010	Potential	ly
From: Webcor/	Obayashi Joint Venture Manuel Sa	Idana To: Turner Construction (Compan Daphne Faulkner	Answered By	Transbay Join	t Powers Au Gerry	y MacClellan	d
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference spe paragraph 6.B.	cification 00 08 13/APA, page 15,			describes the	TJPA's requren	00.10.02B, which nents for a Perfor ork required durin	mance	
Is Maintenance	e Bond Required?			correction per	•	on required damin	g tilo	
G04.5.1-0011	TG0451 Question 0011 - Insura	nce Requirements	Closed	08/31/2010	09/07/2010	09/03/2010	Potential	ly 🗌
From: Webcor/	Obayashi Joint Venture Manuel Sa	Idana To: Turner Construction (Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference spe	cification 00 08 05, paragraph 1.2.				In of the project	t bidding manual	as	
TG04.5.1 cont	n that \$25,000,000 limit on GL is not for ract. This question was reponded to during process (Question #1).	g		ciailleu III Sec	MONTV.A OF GA	iibit A.		
G04.5.1-0012	TG0451 Question 0012 - Mobili	zations	Closed	09/03/2010	09/10/2010	09/03/2010	Potential	ly 🗌
From: Webcor/	Obayashi Joint Venture Manuel Sa	Idana To: Turner Construction (Compan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	ne Filipas	_
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

835 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Reference specification 01 15 05 & Bid Form Exhibit A.			Bid form mod	ified per Adden	dum 2.		
This section is about mobilization cost and how it is release, however there is no mobilization line item on bid form (exhibit A). Should bid form be revised to included mobilization?							
G04.5.1-0013 TG0451 Question 0013 - Personne	el Requirements	Closed	09/03/2010	09/10/2010	09/03/2010	Potential	lly
From: Webcor/Obayashi Joint Venture Manuel Salda	na To: Turner Construction	Compan Daphne Faulkner	Answered By	:Webcor Const	truction LP Joan	ne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specification 01 14 00, paragraph 1.8.B. This section requires a full time graduate licensed engineer or architect to be on site as CQC manager. Is this position filled with CMGC or Trade Contractor for TG04.5.1.			referenced in paragraph 1.8 Trade Subcor personnel as Control, parage personnel inconstruction e Subcontracto	Section 00 14 0 8.B, will be provintractor is respondented by Section 1.8.C. Quilude a minimum experience, specifs scope of wor	trol (CQC) Manage 20, Quality Control ded by the CM/G insible for providing the 14 00, Qualifications for this a of 10 years of recific to the Trade k, of which 5 years works projects.	I, C. og QC ality s levant	
G04.5.1-0014 TG0451 Question 0014 - Fall Prote	ection	Closed	09/03/2010	09/10/2010	09/03/2010	Potential	lly
From: Webcor/Obayashi Joint Venture Manuel Salda	na To: Turner Construction	Compan Daphne Faulkner	Answered By	:Webcor Const	truction LP Joan	ne Filipas	
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference specification 01 15 45-5, paragraph 1.6.C.					Dbayashi Site Spe		
Fall protection is required for all trenches 5 feet or deeper. Does this requirement include lifeline harness, lanyard, tie down, etc>?					dated 7-30-2010) ractices/Excavation		



Page: Date:

Job:

836 of 1053 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
G043-0001	Site Survey			Closed	11/02/2010	11/16/2010	11/02/2010	Potentially	,
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Davi	d Hungerford	
Co-Author:									
REQUEST: Do we provide all	I survey for our work?		SUGGESTION:		ANSWER: Yes.	Accept Sug	gestion:		
W/O to provide a	nswer.								
G043-0002	SBE Requireme	ents		Closed	11/02/2010	11/16/2010	11/04/2010	Potentially	,
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Transbay Joint	Powers Au Sara	Gigliotti	
Co-Author:									
confirm that this sub tier subcontribe SBE companions suppliers must be	dicated as to be 100% means that all of our st actors if any) and truck es. Please also confire SBE. It will be imposphalt, VCP, aggregate mpanies.	ubcontractors (and sers must therefore m that not all ssible to obtain	SUGGESTION:		be SBEs. Go purchase mat manufacturers purchased fro the cost count supplies are p	od faith efforts rerials and supples or dealers. If remaining an SBE manuts as SBE particular purchased from a cost of materia	including trucke nust be made to	olies are rcent of ials or ount 60	
G043-0003	Lead in AWSS F	Pipes		Closed	11/02/2010	11/16/2010	11/03/2010	Potentially	, _—
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Davi	d Hungerford	
	to be demolished? If n the joints to be handl		SUGGESTION:		ANSWER: VOID	Accept Sug	gestion:		
G043-0004	Permit Reimbur	sables		Closed	11/02/2010	11/16/2010	11/04/2010	Potentially	,
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Davi	d Hungerford	
Co-Author:									
REQUEST: Will we be reimbounder, and other	ursed for all excavatior permits?	n, street space,	SUGGESTION:		ANSWER: See Section 0 responsbility.	Accept Sug 01 14 10/APA fo	gestion: r a matrix of perr	nit	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

837 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

G043-0005 Phase II Drawings Closed From: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: SUGGESTION:	11/02/2010 11/16/2010 11/02/2010 Potentially Answered By: Webcor Construction LP David Hungerford
Co-Author:	Answered By: Webcor Construction LP David Hungerford
REQUEST: SUGGESTION:	
	ANSWER: Accept Suggestion:
Do we include anything indicated in the Phase II drawings?	No.
W/O to provide answer.	
G043-0006 OCIP Requirements Closed	11/02/2010 11/16/2010 11/02/2010 Potentially
From: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner	Answered By:Transbay PMPC Guy Hollins
Co-Author:	
REQUEST: SUGGESTION:	ANSWER: Accept Suggestion:
Is there (or will there be) an OCIP on this project? If so, what insurances will this OCIP include?	There is no current, or planned OCIP for this project.
G043-0007 Bid Form Clarification Closed From: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner	11/02/2010 11/16/2010 11/02/2010 Potentially Answered By: Webcor Construction LP David Hungerford
Co-Author:	
REQUEST: SUGGESTION:	ANSWER: Accept Suggestion:
The bid form is far too complex. We can possibly understand the need for the data indicated by the bid form from the subcontractor awarded the project, but we can see no need for each and every bidder to fill out every space in a ten page bid form. In addition the bid form requires us to fill in the quantities. As every subcontractor will have different quantities, this seems somewhat odd. A typical SF PUC style bid form, with quantities provided, would result in bids that could be confidently compared with each other- ¿Apples to Apples ¿, not ¿Oranges to Apples ¿. We request that such a bid form be provided. If the bid form is not simplified greatly, we will not be able to bid this project, since it will take more time to complete the form than actually estimate the project.	See revised bid form in Addendum 3.
W/O to provide answer.	



reissue the drawings, without changes, other than stating

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

838 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
G043-0008	Bid Date Exte	nsion		Closed	11/02/2010	11/16/2010	11/02/2010	Potentiall	у
From: Webcor C	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	y: Transbay PMF	C Guy	Hollins	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Can the bid date	e please be delayed?				The bid open scheduled.	ing date will prod	ceed as currently		
G043-0009	Exhibit I Sche	dule and Exhibit A.V		Closed	11/02/2010	11/16/2010	11/04/2010	Potentiall	у 🗌
From: Webcor C	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	y: Webcor Const	ruction LP Davi	d Hungerford	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
calendar days (I days. In this an install the water takes 2 weeks) restoration. Ple note that Exhibit milestones) that CD of NTP-thus	en 1/27/11 and 3/31/1 CD). This is approximate the second of time we are to get SFWD to do the and then do all the dease confirm that this is the A.V appears to require the water work be confirmed to the sewer. Please	nately 48 working o install the sewer, tie ins (which often emolition and s your intent. Also ire (under empleted within 80 irer will have to be							
W/O to provide	answer.								
G043-0010	Bid Package [Drawing Clarification		Closed	11/02/2010	11/16/2010	11/02/2010	Potentiall	у 🗌
From: Webcor C	onstruction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	y:Webcor Const	ruction LP Davi	d Hungerford	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
¿The ¿issued for Order revisions, TG04.5.1 ONLY revisions state t 04.4. So if they TG04.5.1 ONLY TG04.4;? Are	arification of Bid Packa or construction; drawing grare for construction (¿. However the Delta hat the ¿revisions (are are for construction of my why are they ¿revisity you trying to say-¿Usa len when we give you	ngs and the Field of Bid Package a 1- Field Order- e) for TG04.3 and TG of Bid Package ions for TG04.3 and e all the drawings as			found in secti all of the drav bid process, a	on 00 01 15.1 of vings provided. l a ¿for constructi ents for this trad	d in this bid pack f the specification Jpon completion on; conformed s e package will be	ns. Use of this et of	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

839 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

			_		_			
umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
that they are now issued for construct exactly what you mean.	tion¿? Please clarify							
W/O to provide answer.								
G043-0011 Investigative Trom: Webcor Construction LP	Trench Drawing David Hungerford	To: Turner Construction Co	Closed	11/02/2010 Answered By	11/16/2010	11/02/2010 ruction LP Davi	Potential	, _—
Co-Author:	David Hallgollord	Turner Construction Co	ompan Daprine i adiknei	7 a.o. o.o. o. o.	- Webcoi Cons	idelion Li Davi	a Hungenore	•
REQUEST: Exhibit A.IV (page 9), Number 11 statinvestigation trenches as shown on state 1008 dated 8-27-10. This is not the coprovided. Please clarify. W/O to provide answer.	heets U-1007 & U-	SUGGESTION:		ANSWER: Correction: Co Construction I	Accept Sug prrect drawing is Drawings."	- 🗀		
We to provide allower.								
G043-0012 Demolition of From: Webcor Construction LP	Existing Electrical, Gas and David Hungerford		Closed	11/02/2010	11/16/2010	11/02/2010	Potential	, _—
Co-Author:	David Hungenord	To: Turner Construction Co	ompan Dapnne Faulkner	Allswelled by	- webcor Cons	ruction LP Davi	a Hungerrord	1
REQUEST: Sheet U1110 and all the other demost U1110 note 5 does not specifically state demolished by PG&E, note 7 does be removed by AT&T (other notes are notes also do not specifically state the isto demolish¿ or something similar. (page 7), third bullet, states: ¿Unless the drawings, Electrical, Gas & Telectrical, Gas & Telectrical will be abandon and all feeders remove utility owners prior to demolition by the there is an ambiguity. Are we, or are demolition of the Electrical, Gas & Telines? In either case, who removes the Please clarify. Exactly what is require the plans?	ate that the gas is to so not say duct bank to esimilar), but the at ¿Trade contractor Exhibit A.IV.D.2 so noted otherwise on communication lines eved by the respective is contract. ¿ Thus we not to include lecommunication ne boxes, vaults etc.?	SUGGESTION:		Note 5 says ¿ HP GAS" Note 7 says ¿ TELECOMMU MANHOLES"	wn on the drawi "DEMOLISH A: "DEMOLISH A: INICATIONS D	S INDICATED EX S INDICATED EX	KISTING	
W/O to provide answer.								



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

840 of 1053

Time: 10:53 AM 30100

				<i>J</i>		,			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
ΓG043-0013	Demolition of U	tilities		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Webcor Consti	uction LP Davi	d Hungerford	1
Co-Author:									
REQUEST: Referenced: Sheet U	11110		SUGGESTION:		ANSWER: VOID	Accept Sug	gestion:		
Are the utilities to the the west of the wall) confirm.									
ΓG043-0014	Temporary Tie I	n		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Webcor Consti	uction LP Davi	d Hungerford	1
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Who is to perform Exany other, temporary showing exactly what in(s). Include line, gr	tie in? Please prov t is required for the	vide drawing			VOID				
W/O to provide answ	er.								
ΓG043-0015	Tie In Sequence	•		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Webcor Consti	uction LP Davi	d Hungerford	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Exhibit A.IV.D.4 (Pag tie into buildings will commissioning of the Natoma Streets east be under our control, complete this work in Please discuss and of	be performanced a e water systems at of First Street. As how can we be su the time allowed f	Ifter complete 1st, Howard, & this work will not re we can			falls outside o scope of work	ed commissioning the prescribed and a modification made as is appropriate the commission of the commis	duration require to the required s	d for this	
W/O to provide answ	er.								
ΓG043-0016	Liquidated Dam	ages		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🔲
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:Webcor Consti	uction LP Davi	d Hungerford	<u></u>



specification.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

841 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Are there liquidated damages associated with this subcontract?			SUGGESTION:				i gestion: s shown in Sectic issued in Addend		
G043-0017	Open Trenches			Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	:Webcor Const	truction LP David	d Hungerford	i
Co-Author:									
REQUEST: Exhibit A.IV.D.11 (page 9) discusses the two investigation trenches to be excavated (and backfilled) in this scope of work. For these trenches, do we open up end to end and plate? If so, how long will they be kept open, who will move and replace the plates etc.? Or, can we trench and backfill concurrently, with representatives observing and taking requested measurements, thus limiting the amount of open trench?			SUGGESTION:		ANSWER: VOID	Accept Sug	gestion:		
G043-0018	Mark Up Clarific	cation		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Con	mpan Daphne Faulkner	Answered By	:Webcor Const	truction LP David	d Hungerford	1
Co-Author:									
direct cost plus Cost including bo current Caltrans liability insurance adding the approach 1.5% SF payroll equals approximating surcharge a point. As current a loss. Note that for labor, which a should bid a projects.	.06.C.2 states that match and insurance plus and insurance plus surcharge is approximate and WC insurance to ximately 6.20% FICA, tax, 7.1% unemploymentally 32.5% which exceed at 15% markup, this is clay written, we would do a Caltrans uses the sur allows a profit. Please ect that guarantees that a loss or change	s 15%, or is it direct us 15%? As the ately 11% and our tal 16.21% and 1.45% medicare, ent & training taxes eeds the sum of the s a very important or any extra work at charge plus 33% explain why we at all extra work	SUGGESTION:		Work perform equals a max	ed by a Subcor imum of 15% of	gestion: 00 ¿ 6.06.C.2 allo ntractor, a markup i its direct costs, a Subcontractor bor	that is	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 842 of 1053 11/05/2013

Time:
Job:

: 10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG043-0019	Testing Payme	ent Responsibilities		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	y
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay PMP	C Guy	Hollins	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specs. 000700.8.0 such as compactio testing, soils analyt	n testing, concrete	pay for any testing testing, water quality				ners. Retesting d will be borne by			
TG043-0020	Utility Crossin	g Rate Schedule		Closed	11/02/2010	11/16/2010	11/03/2010	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	Transbay PMP	C Guy	Hollins	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specs . 000810/AF Schedules dated Jathe current rates. Naround of non-gove will the rates be the done (2011) or not	anuary 2004. Thes Will we be paid for ernmental and SFW e rates in effect who	se are obviously not support and work VD facilities? If so,				ould use current g Schedules at t			
TG043-0021	Fire Hydrant U	Jse		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	у 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Constr	uction LP Davi	d Hungerford	
Co-Author:									
REQUEST: Specs. 000813.1.6			SUGGESTION:		ANSWER: Comply with s	Accept Sugg specifications.	gestion:		
Will we be allowed	to use hydrant wat	er?							
TG043-0022	Excavation - P	Public Notice		Closed	11/02/2010	11/16/2010	11/04/2010	Potentiall	w 🗀
From: Webcor Cons		David Hungerford	To: Turner Construction Compan			:Webcor Constr			
Co-Author:			Tarrior Concuración Compan	Daprino i dancioi		- W OBOO! CONO!	dollor Er Bavi	a i iangonora	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Specs. 000813.1.8	.B.				TJPA represe	ntative will perfo	rm outreach bas	ed on	
Who does the exca	avation permit publi	ic notifications?			timely notifica	tion by contracto	r.		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

843 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG043-0023	Waste Manag	ement Plan		Closed	11/02/2010		11/02/2010	Potential	
From: Webcor Cons	_	David Hungerford	To: Turner Construction Compan	Daphne Faulkner		y:Webcor Const			
Co-Author:		-	•	•				J	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specs. 000815.					No - not avail	able. Trade Sub- rancisco requirer	contractor is to p	olan per	
Is Webcor/Obayash available? What do plan?	•	•			,				
W/O to provide ans	wer.								
TG043-0024	Unit Prices fo	r Class 1&2 Disposal		Closed	11/02/2010	11/16/2010	11/02/2010	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered B	y: Webcor Const	ruction LP Dav	id Hungerford	ı
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specs. 011020.						be established	by Trade Subco	ntractor	
Do you already hav Do we have to mate		lass 1 & 2 disposal?			as part of bid				
W/O to provide ans	wer.								
TG043-0025	Groundwater	Discharge		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered B	y:Webcor Const	ruction LP Dav	id Hungerford	I
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
For groundwater dis our costs including etc.?					relocation. De	ischarge allowar ewatering and as on project are bo	nce for the utility sociated costs f		
TG043-0026	Class 1 - Con	taminated Soil		Closed	11/02/2010	11/16/2010	11/03/2010	Potential	
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered B	y: Transbay PMP	C Guy	Hollins	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

844 of 1053 11/05/2013

Time:

10:53 AM 30100

ANSWER:

Accept Suggestion:

JOHN VENTONE			30100 - 11ans	bay Transi	it Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Specs. 011020. What is the definition Federal Class 1 RCR what exactly?					what is Class		sultant will detern n-RCRA hazardo tate regulations.		
TG043-0027	Class 2 - Cont	aminated Soil		Closed	11/02/2010	11/16/2010	11/03/2010	Potential	lly 🗌
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Transbay PMP	C Guy	Hollins	, П
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specs. 011020.						e is material not	classified as Clas		
What is the exact de	finition of Class 2	? Contaminated soil?			that prevents waste. This is landfill operat	it from being dis s determined on ors. The TJPA	I contains contar posed of as unre a case-by-case I environmental co of Class II hazard	stricted basis by nsultant	
TG043-0028	HASP			Closed	11/02/2010	11/16/2010	11/02/2010	Potential	lly
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Constr	ruction LP David	d Hungerford	t
Co-Author:									
REQUEST: SMP plan page 8.			SUGGESTION:			Accept Sugg	gestion: H of the Long Fo	orm	
Is your HASP availab	ole?				Subcontract.				
W/O to provide answ	/er.								
TG043-0029	Traffic Contro	I Requirements		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	lly
From: Webcor Consti	ruction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Webcor Constr	ruction LP David	d Hungerford	t
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

845 of 1053 11/05/2013

30100

Date:

Job:

Time: 10:53 AM

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Specs. 011570.1.2.D requires that the contractor or Traffic control to be by trade subcontractor. Traffic subcontractor to have a C-31 license to do the traffic control to be as required by specifications. control. We have an A license. Does this mean we cannot do our own traffic control, but must instead hire a subcontractor? Or, are you providing traffic control including plans, signs etc.? If we are allowed to provide our own traffic control (or if we must hire a subcontractor) does the three man traffic control need to be dedicated solely to performing traffic control work? TG043-0030 Changeable Message Sign Requirements Closed 11/02/2010 11/16/2010 11/04/2010 Potentially From: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner Answered By: Webcor Construction LP David Hungerford Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Specs. 011570.2.4.A. Yes. Do we need to include changeable message signs? TG043-0031 K-rail requirements Closed 11/02/2010 11/16/2010 11/04/2010 Potentially From: Webcor Construction LP **David Hungerford** To: Turner Construction Compan Daphne Faulkner Answered By: Webcor Construction LP David Hungerford Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Specs. 011570.2.5. Yes, (Section 01 15 70.2.6 is the correct reference). Do we need to provide K rail? TG043-0032 Temp. Tape and Markers Closed 11/02/2010 11/16/2010 11/04/2010 Potentially From: Webcor Construction LP David Hungerford Answered By: Webcor Construction LP David Hungerford To: Turner Construction Compan Daphne Faulkner Co-Author: REQUEST: SUGGESTION: ANSWER: Accept Suggestion: Specs. 011570.2.7. Yes. Do we need to provide temporary tape and markers?



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 846 of 1053 10:53 AM

30100

Time: Job:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
G043-0033	Traffic Loop Re	epair		Closed	11/02/2010	11/16/2010	11/04/2010	Potentia	lly
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Dav	id Hungerfor	d
Co-Author:									
REQUEST: Specs. 011570	n 2 g		SUGGESTION:		ANSWER: Yes.	Accept Sug	gestion:		
·	provide traffic loop repa	iir?			165.				
G043-0034	Traffic Lane Re	equirements		Closed	11/02/2010	11/16/2010	11/02/2010	Potentia	lly 🗌
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Dav	id Hungerfor	d
Co-Author:									
Does Natoma if so where? I where, perhap how are we to	O. Traffic Lane requirement need a lane open, 1 at 1 t is difficult to understand is due to the line spacing keep an 11; lane open	1¿ westbound and d what is required of the table. And, on a 22¿ wide street	SUGGESTION:		in the specific lane widths fo	ations. If the nur through traffic	gestion: Iffic Lane Requirumber of lanes a cannot be achie Special Traffic Pe	nd/or ved,	
Natoma with lo	m the work? Please allocal traffic access. Specialty Traffi Construction LP		To: Turner Construction Com	Closed npan Daphne Faulkner	11/02/2010 Answered By	11/16/2010 /:Webcor Const	11/04/2010 ruction LP Dav	Potentia id Hungerfor	
Co-Author: REQUEST: If special traffireimbursable?	c permits are required, a	re the costs	SUGGESTION:		ANSWER: See Section (Accept Sug 01 14 10/APA.	gestion:		
G043-0036	Truck Routes			Closed	11/02/2010	11/16/2010	11/02/2010	Potentia	lly
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Dav	id Hungerfor	d
Co-Author:									
REQUEST: Specs. 011570	0.3.23.		SUGGESTION:		ANSWER: No.	Accept Sug	gestion:		
Are there spec	cific approved truck route	es? If so, please							



847 of 1053

Page: Date:

11/05/2013 10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job:

JOINT VENTUR	E		30100 - Transbay	Transi	t Center	Project			
Number	Subject		Sta	atus	Date Created	Date Required	Date Answered	Cost Impact	Proceed
W/O to provide ans	swer.								
TG043-0037	Trench Plate i	installation method	Clo	osed	11/02/2010	11/16/2010	11/02/2010	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan Daphne	Faulkner	Answered By	:Transbay PMP	C Guy	Hollins	·
Co-Author:		-	· · ·			•	·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	estion:		
Specs. 013565.1.5.	.B.					with the specific	cations, contract		
This section require sidewalk. Does this depressions in the cutback ramps as is confirm.	s mean all plates r street, and not pla	must be in cut-in ced on the street with			install plates of sidewalk.	or decking flush v	vith the existing	street or	
TG043-0038	Depth of Bedo	ding above Pipe	Cid	osed	11/02/2010	11/16/2010	11/03/2010	Potential	ly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Turner Construction Compan Daphne	Faulkner	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
Specs. 312310.1.8.						eference to next 10.1.9, Bedding		on:	
of pipeto a horizo below." Could not f	ntal level above the find anywhere "beling the depth of the	low" where e bedding above the							

TG043-0039 **Pavement Mill and Fill Requirements**

David Hungerford

To: Turner Construction Compan Daphne Faulkner

Closed

Answered By: AECOM Technical Service Eric Zagol

11/03/2010

Potentially

11/16/2010

11/02/2010

From: Webcor Construction LP

Co-Author:

REQUEST: Specs. 321217.3.4.A. SUGGESTION:

ANSWER: **Accept Suggestion:**

Restore all excavations for the Work in accordance



provided with information regarding what we are buying

and what it will cost.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

848 of 1053 11/05/2013

Date: Time: Job:

: 10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
This section states that ¿Contractor s pavement as directed by TJPA repres bid we must be told exactly which are filled. If you cannot provide exact and parameters (such as a drawing showithe mill and fill required), we will have absolutely no mill and fill is required. expected to know what the TJPA reprirequire.	entative.; Prior to as are to be milled & complete ag the exact limits of to assume that We cannot be			176,707, ["] Re Streets in Sai	gulations for Exc	ve of DPW Order cavation and Rest nich describes the S restoration.	oring	
G043-0040 Permanent Pa	vement Restoration Require	ements	Closed	11/02/2010	11/16/2010	11/03/2010	Potentiall	ly 🗌
From: Webcor Construction LP	David Hungerford	To: Turner Construction Com	npan Daphne Faulkner	Answered By	:AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:	· ·		, p	·	,		9	
REQUEST: Specs. 321724. Typically in SF all permanent paveme provided by SF at no cost. Are we to restoration of pavement markings or v cost?	provide permanent	SUGGESTION:		install all the	permanent therr	Igestion: I/TA will furnish ar moplastic stripes adance with Section	and	
G043-0041 Fire Hydrant P From: Webcor Construction LP	rocurement Clarification David Hungerford	To: Turner Construction Com	Closed npan Daphne Faulkner	11/02/2010 Answered By	11/16/2010 /:AECOM Tech	11/04/2010 nical Service Eric 2	Potentiall Zagol	ly
Co-Author:							-	
REQUEST: Specs 331100.1.1.B & 331100.3.3.C8 There is ambiguity regarding fire hydra SFFD installs fire hydrants. Do they s If not, do we have to pay for the hydra If we have to pay, EXACTLY what mu EXACTLY what is the cost? If we are purchase something from one source	ants. It appears upply the hydrants? nts and valves etc.? st we obtain and required to	SUGGESTION:		Fire Hydrant s materials from with 33 11 00 Distribution D	Services per 33 n SFFD (througl .3.3.D. Contact	furnish all material 11 00.3.3.C. Purc h SFPUC) in acco the SFPUC City Coordinator at 19	chase ordance	



REQUEST:

Webcor/Obayashi Joint Venture

Page: Date:

Job:

849 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

ANSWER:

JOINT VENTUR	₹E		30100 - Tran	sbay Transi	t Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
ΓG043-0042	SFWD Temp.	Connections		Closed	11/02/2010	11/16/2010	11/03/2010	Potential	ly 🗌
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									
REQUEST: Specs 331100.1.1	l.C.		SUGGESTION:		ANSWER:	Accept Sugg		ine	
·	orm temporary conn	ections that are				emporary in the			
ΓG043-0043	SFWD Materia	al Transportation		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specs. 331100.1.3	3.B.				Transport mate from SFFD ar	erials that are p	urchased and p	ocured	
What material is the hydrant situation is but what material move? For connections	f previous question, is SFWD providing tections, SFWD has a . Please specify ex	rill understand the fire above is answered, that we have to always transported							
ГG043-0044	Water Dist. Pi	ping & Valves Clarification		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Specs. 331100.3.2	2.E.				See Addendu	m 3 for reformat	ted specification	section.	
make any sense a	5. What do they me as written. Please p can be understood.								
ΓG043-0045	Side Sewer Re	eplacement Clarification		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									

SUGGESTION:



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

850 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						Accept Sug	gestion:		
Specs. 333110.1.1.A	٨.4.				Replace exist indicated on t		and/or culverts as	3	
This section says ¿to culverts which are to could be interpreted culverts on all portion their entirety. Is that more obviously.	remain in place as to mean that all sidens of the project are	per plans.¿ This e sewers and e to be replaced in			indicated on t	пе ріапъ.			
G043-0046	ACWS and Plan	ning Limits		Closed	11/02/2010	11/16/2010	11/03/2010	Potential	ly
From: Webcor Const	ruction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:AECOM Techr	nical Service Eric Z	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specs. 333110.1.1.	A.9.					evement in accor		707	
As stated above, ple and ACWS.	ase provide exact li	imits of planning			"Regulations San Francisc	for Excavation a	W Order No. 176, nd Restoring Stre bes the limits of m on.	ets in	
G043-0047	Catch Basins an	nd Traps		Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🔲
From: Webcor Const	ruction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Webcor Const	ruction LP David	l Hungerford	ı
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Specs 33	33110.1.1. A.5 & 11				VOID				
Please provide exact requiring cleaning an									
G043-0048	Spigot Type			Closed	11/02/2010	11/16/2010	11/04/2010	Potential	ly 🗌
From: Webcor Const	ruction LP	David Hungerford	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:AECOM Techr	nical Service Eric Z	Zagol	
Co-Author:									

SUGGESTION:



requirements stated in the RFP, or is the specified

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

entitiy with it's own insurance.

Page: Date:

Job:

851 of 1053

Time:

10:53 AM 30100

				<i>J</i>		<u> </u>			
lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
333110.2.1.B.					See Addendu	m 3 for revised	specification word	ing.	
Define ¿spigot¿ type Spigot (Band seal) pi	e. Is this Bell x Spigot ipe?	or Spigot x							
G05.02-0001	Inclusion of Engine	eering Enterprise in Bid		Closed	02/11/2011	02/21/2011	02/14/2011	Potential	ly
From: Webcor Const	ruction LP	David Hungerford	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Tim M	/laxwell	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Enterprise for this bid advise of their insura not a \$50K deductibl registered as an SBE have been in busines claim filed against th allow the deductible	s to include the Engine d. The Engineering En ance carrier) carries a See. The Engineering Er with the State of Caliss for 36 years and new. Their Insurance Cochanged for any singulactible difference can be	terprise (at the 575K deductible aterprise is fornia. They ver have had a company will not lar project. Is			boilerplate exi	hibit is the respo	et forth in the subc onsibility of the firm obcor/Obayashi Jo	n	
G05.02-0002	Amount for Liquida	ated Damages		Closed	02/11/2011	02/21/2011	02/14/2011	Potential	ly 🖂
From: Webcor Const	ruction LP	David Hungerford	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Tim M	/laxwell	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ount is not specified for in the LD's and will it b				Refer to Spec paragraph 4.0		00 05 20 Article 4	4	
G05.04-0001	Insurance Require	ments		Closed	02/10/2011	02/20/2011	02/03/2011	Potential	ly 🗌
From: Webcor Const	ruction LP	David Hungerford	To: Turner Construction Compa	an Kevin Chiu	Answered By	:Webcor Const	ruction LP Tim M	/laxwell	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Does a submitting J\	√ need its own insuran	ce meeting the			YES - if contra		ne JV must be a le	egal	



B. "Cutback or Coldpatch" at bridging and plating,

D. Does not include Roadway Grinding or Hot Asphalt

handicap ramps, and sidewalk repairs;

C. Misc Roadway Maintenance;

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

852 of 1053 11/05/2013

Time: Job:

control and maintenance of public and construction

patching; "cutback or coldpatch" at bridging and

safety throughout the complete construction duration. It is envisaged that the scope may include pothole

10:53 AM 30100

			30100 - 11ai	isbay mans	sit Center	Froject			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	g met by the partner firms e General Contract/Select								
TG05.04-0002	Definition of a Jo	int Venture		Closed	02/10/2011	02/20/2011	02/14/2011	Potential	ly 🗌
From: Webcor (Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered By	:Webcor Consti	uction LP Tim N	Maxwell	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
what agreemer	ency's Definition of a Join nts need to be in place if fi oposal as a Joint Venture?	rms want to			California Busi 7029, et seq. properly licens with its Qualific venture agreer responsibilities the scope of w demonstrate th provide for cor bind each entit The joint ventu experience and	ness and Profe Any respondented as a single of cation Statementer. The agrees of each partner ork established the relationship intractual relationary to the obligations of qualifications ance and qualifications ance and qualifications.	petween partners aships and author ons of the joint v	tion ust be ubmit bint tify the ure for , and rities to enture. should	
TG05.04-0003	Temporary Paver	ment Clarification		Closed	02/10/2011	02/20/2011	02/14/2011	Potential	ly
From: Webcor (Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered By	Transbay PMP	C Alfred	d Lau	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
"TEMPORARY	ontrol Specification 01570 PAVEMENT" is Tempora ic controls limited to the fo ching;	ry Pavement in			¿temporary pa Routing Work.	vement as pa The requireme	I.2.F.10 defines rt of the scope fo ent for ¿temporar e construction tra	у	



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

853 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
	<u>Guzjeet</u>			<u> </u>				mpuot	110000	
Application.					plating, handicap ramps, and sidewalk repairs; and misc. roadway maintenance. Usually, roadway grinding and hot asphalt application, which are typically utilized for larger paving areas, and possibly permanent installations, will not be necessitated by ¿temporary pavement, work. However, without the opportunity to review the traffic control plan as stipulated in 1.2.A of the same section, we cannot preclude the need at this time.					
G05.2R-0001		Switch Board AIC Rating		Closed	03/29/2011	03/29/2011	03/29/2011	Potential		
From: Webcor Cor Co-Author:	nstruction LP	Daniel Foudy	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Tim M	axwell		
REQUEST:			SUGGESTION:		ANSWER:	Assemt Com				
	C rating for the (5) fi	ve 2500 Amp temp	SOGESTION.		All overcurren must be able to the equipm Therefore, it is engineer of th manufacturer/	to clear a fault when itself, as requestings the responsibile switchgear/sw	ices within equipm vithout extensive di juired by the NEC. lity of the design vitchboard d by the successfu	amage		
G05.4-0004	Team Leader F	Preference		Closed	02/10/2011	02/20/2011	02/10/2011	Potential	lv 🗆	
From: Webcor Cor		David Hungerford	To: Turner Construction Con				ruction LP Tim M		.,	
Co-Author:										
	eference for teams le onal Services Compa		SUGGESTION:		ANSWER: No Preference licensing.	Accept Sug	gestion: entity possess red	uried		
G05.4-0005	CityBuild/First	Source Referral Program Ce	ertificate	Closed	02/10/2011	02/20/2011	02/10/2011	Potential	ly 🗌	
From: Webcor Cor	5.4-0005 CityBuild/First Source Referral Program Certificate From: Webcor Construction LP David Hungerford To: Turner Construction Co				Answered By	:Webcor Const	ruction LP Tim M	axwell		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

854 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed		
REQUEST: The proposal checklist (attachment 2) includes "CityBuild/FirstSource Referral Program Certificate" but section 00 04 57 includes no Certification form. What should submitters included in their proposal to satisfy this checklist requirement? G05.4-0006 Warning Sign Clarification			SUGGESTION:		ANSWER: Accept Suggestion: Section 00 04 57 refers your to Section 00 08 20 - required forms are located at the end of Section 00 08 20.						
G05.4-0006	Warning Sign (Clarification		Closed	02/10/2011	02/20/2011	02/14/2011	Potentia	lly		
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Compa	n Kevin Chiu	Answered By	Transbay PMP	C Alfre	d Lau			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
the specs laid an alternate sig	section 01-15-50-6, is tout for the changeable was model be used, so lost the capabilities of the research.	warning signs or can ong as it			"Contractor ma		1 15 70 (paragrap ther model of any equirements."				
G05.4-0007	Subcontractor	List		Closed	02/10/2011	02/20/2011	02/10/2011	Potentia	lly		
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Compa	n Kevin Chiu	Answered By	Webcor Const	ruction LP Tim I	Maxwell			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
include the iter "subcontractor actually refer to	checklist states the subn m "Subcontractor List (S I list" in the package - do the "Subcontracting Rage 45 of the proposal m	SL)" but there is no pes the checklist equest (SR)"			Exhibit A is a r	nisprint. Use th	requirement in tr e "Subcontracting in the Proposal M	9			
G05.4-0008	Traffic Control	Plan Budget		Closed	02/10/2011	02/20/2011	02/10/2011	Potentia	lly 🗌		
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Compa	n Kevin Chiu	Answered By	:Webcor Const	ruction LP Tim I	Maxwell	- 🗀		
Co-Author:		-			•						
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Has an overall	budget for the Traffic C and execution been esta					ablished for this					



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 855 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
G05.4-0009	Non-Discrimina	ation in Contracts and Bend	efits	Closed	02/10/2011	02/20/2011	02/10/2011	Potential	lly 🗌
From: Webc	or Construction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	:Webcor Const	ruction LP Tim I	Maxwell	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The proposal checklist in Attachment 2 specifies "NonDiscrimination in Contracts and Benefits (section 00 04 70)" but the only mention of this section is in the Specifications' table of contents where the title and information are struck through/crossed out. What do the submitters need to include in proposals to satisfy the checklist requirement? G08.1-A001 Blast Loading					deleted under	rm is a misprint Rev. 2 of the co longer required	Section 00 04 7 ontract Specificat d and will not be i	ions.	
G08.1-A001	Blast Loading			Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly
From: Webc	or Construction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section	on/Dwg Sheet: 08 44 26 - 1	.5.B.f					the Blast Criter	ria	
shown in all	ading" criteria applicable to l of the specifications, but is ergman in the design of W-3	s only used by			system in the 44 23/1.5-C.1. 33/1.5-A.2.f, 0 03/1.5-B.1.h. W1 and W10	performance of following specifi k, 08 44 26/1.5- 8 44 36/1.5-B.1 must be tested to 1 26/1.8-G and 0	cation sections: (-B.1.f, 08 44 .f, and 08 63 for Blast, per	08	
G08.1-A002	Spec Clarificat	ion		Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly
From: Webc	or Construction LP	David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	on/Dwg Sheet: 08 44 03; S1	1-6000; 08 44 36;				03 does not exi	st. S1-6000 and		
S1-6001						e corrected in the See the table o	ne document set of contents,		
for three wa table of con On drawing skylight (W-	S1-6000, specification 08 4 all types (W-1, W-3 & W-8). Itents, specification 08 44 0 S1-6001, refers to spec 08 all 0. This spec section reference of the spec section.	According to the 3 does not exist. 44 36 for the			Section 00 01 apply.	10.21, for a list	of sections that		



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

856 of 1053 11/05/2013

30100

Time: 10:53 AM

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TG08.1-A003	Wall Type Nome	enclature		Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The drawings reference "CW" wall types and the IFB and specifications reference "wall types". Please confirm the following correlation: W-1 = RSC-1 & RSC-2; W-3 = C-1; Curtain Wall systems noted as W1, W3, W W-4 = C-2; W-8 = CW-3; W-10 = SL-1. Please clarify the applicable specification section. The October 15, 2010, Stage One Design-Find Glazing drawings and specifications refer to Curtain Wall systems noted as W1, W3, W and W10. See the documents for a descrip the systems. Earlier designations used in prior in-progress drawing issues no longer apply.				cations refer to s W1, W3, W4, V for a description rior in-progress	V8,				
TG08.1-A004	Glass Specifica	ition		Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/Dwg Sheet: 08 44 26-25; 2.2-A-1					hened" glass in a	accordance with			
44 26-25, para 2.2	glass specification; A 2-A-1, "heat strengthe para 2.2-A-1-a, "full bould it be?	ed" according to			to full temper	ed float glass wil	equired. Referenc Il be removed fror e documents issu	n	
TG08.1-A005	Glass Spec - Fr	it		Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly 🗌
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:			·	·					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/Dwg	Sheet: 08 44 26-25	/ A-8021 & A1-8140				d on the W-1 gla	iss as shown on t		
A-1-a Glass with	according to spec 08 frit is shown on dwgs. glass with frit or not?					nclude a frit requ	n 08 44 26 will be iirement when	•	
TG08.1-A006	Corner Support	eed Glazing Assemb (W-1)		Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly 🗌
From: Webcor Cor	nstruction LP	David Hungerford	To: Turner Construction Compar	n Daphne Faulkner	Answered By	y:Adamson Asso	ociates, Inc Geor	ge Metzger	
Co-Author:								-	

SUGGESTION:



2. Glass spec: "heat strengthened" glass per spec 08 44 33-27, para 2.2-C; "fully tempered float glass" per spec 08 44 33-27, para 2,2-C-1 & C-2. Should the glass be "heat

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

857 of 1053 11/05/2013 10:53 AM

30100

Time:

30100 - Transhay Transit Center Project

in the documents issued for bid.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
3. Joints: Vent through the 3/4 according to sp [More]"¿design defense with ra system." - spec joints shall be of sealed, all item	Dwg Sheet: 08 44 26-2 tilation shall be provide 1" gaps between each opec 08 44 26-2, para 1 ned using rainscreen seal and con c 08 44 26-8, para 1.5-opened, not sealed. If its specifying the sealing be applied to W-1? Ple	ed through the awning of the glass panels, .2-A-5. ystem with 2 layers of atinuous air seal .D. Interpret that the the joints will not be ag system in spec 08			required at W	f defence with rainscreen seal are not /-1. Paragraph 1.5-D will be deleted 08 44 26 when the section is issued		ed	
TG08.1-A007	Cable suppor	ted glazed curtain wall (W-3) - Steel	Closed	11/30/2010	12/14/2010	11/30/2010	Potentia	lly 🗌
From: Webcor	From: Webcor Construction LP David Hungerford		To: Turner Construction Co	ompan Daphne Faulkner	Answered By	12/14/2010 11/30/2010 Potentially Adamson Associates, Inc George Metzger			
Co-Author:								-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/[Owg Sheet: 08 44 33-2	/ A1-8100; A1-8201			This question issued for bid	will be resolved	prior to the docur	ments	
of steel plates spec 08 44 33- horizontal girde section" per dw horizontal girde galv. steel hori	"with stainless steel Te and a double row of st -2, para. 1.2-A-1.; [note er" and "S.S. clip screv vg. A1-8100; [note] "pa er" per dwg A1-8201. I zontal T-section and st nps are required. Is the	ainless steel cables" - e] "PTD. Galv steel ved to welded T- inted galv. steel Interpret that painted tainless steel cables							
TG08.1-A008	Cable suppor	ted glazed curtain wall (W-3) - Glass	Closed	11/30/2010	12/14/2010	12/06/2010	Potentia	llv 🖂
	Construction LP	David Hungerford	To: Turner Construction Co				ociates, Inc Georg		,
Co-Author:		- J		para a aprima i samuai			, 2301	, 	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/Dwg Sheet: 08 44 33-27			33302311014.		_		accordance with S	Section	
2. Glass spec	Spec Section/Dwg Sheet: 08 44 33-27 2. Glass spec: "heat strengthened" glass per spec 08 44					C is required. Re t glass will be re	eferences to full emoved from the s	section	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 858 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			<u>Status</u>	Date Created	Required	Date Answered	Cost <u>Impact</u>	Proceed
strengthened"	or "fully tempered"?								
G08.1-A009	Cable support	ed glazed curtain wall (W-3) - Glass Type GL-1B	Closed	11/30/2010	12/14/2010	12/06/2010	Potential	ily
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	Adamson Asso	ciates, Inc Geor	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/	Dwg Sheet: 08 44 33-27	7			,,		liminated from th		
spec 08 44 33	:: GL-1B are spandrel pa -27, para 2.2-C-2. Can Please advise on locati	not locate GL-1B in			,		will be revised to hat will be issued		
G08.1-A010 From: Webcor	Cable support Construction LP	ed glazed curtain wall (W-3 David Hungerford) - Fall Protection system To: Turner Construction Co	Closed ompan Daphne Faulkner	11/30/2010 Answered By	12/14/2010 Adamson Asso	11/30/2010 ociates, Inc Geor	Potentia l	ly
REQUEST:			SUGGESTION:		ANSWER:	Accort Sug	rection.		
	Dwg Sheet: 08 44 33.7		SUGGESTION.		_	Accept Suggists not required	on the W-3 syste	em. The	
4. Fall protect A-3, should the W-3 package?	cion system: per spec 08 e fall protection system Please advise of the la kage is required in this	be included in the ocations if the fall					odified in the doo		
G08.1-A011	Cable support	ed glazed curtain wall (W-3) - Firestopping	Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly 🗌
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geor		, _—
Co-Author:							·	0	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/	Dwg Sheet: 08 44 33-28	3				not required ar	nywhere with the		
there any fire	ng: per spec 08 44 33-2 stopping required for pa on the location of the fire	ckage W-3? If so,				stopping paragra	will be modified aph 2.4-C in the	to	



TG08.1-A015

Co-Author:

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

859 of 1053 11/05/2013

Date:

Page:

10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job:

JOINT VENTU	JRE		30100 - Tra	nsbay Transi	t Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
TG08.1-A012	Cable support	ed glazed curtain wall (W-3) - Documents	Closed	11/30/2010	12/14/2010	12/07/2010	Potentially	,
From: Webcor C	Construction LP	David Hungerford	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:							·		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/D	wg Sheet: 08 44 33-20)				onse TG08.1-A0	01. W-3 will not		
mentioned in 08	uments - spec section 3 44 33-20, para 1.8-E d in spec 08 44 33-29, are required.]	spec section 05 12			35 73 has not	st procedure refe been issued. The ecification will be	ne Blast Test		
TG08.1-A013	Steel-framed o	ılazed curtain wall (W-8) - G	lass	Closed	11/30/2010	12/14/2010	12/07/2010	Potentially	,
From: Webcor C	Construction LP	David Hungerford	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:		•					, , , , , , , , , , , , , , , , , , , ,	3 3-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
1. Glass spec: spec 08 44 36-2 according to sp "laminated float para 2.2-A-3 & a "heat strengther	wg Sheet: 08 44 36-26 "heat strengthened" g 26, para 2.2-A; "full ten ec 08 44 36-26, para 2 glass" according to sp A-4. Should glass type ned" or "fully tempered pes GL-2 & GL-2A be	plass accoring to npered float glass" 2.2-A-1 & A-2; pec 08 44 36-26, es GL-1 & GL-1A be If float glass"?			to each quest	nened" glass is r ion in TG08.1-A es will be elimina	equired in respo 013. The		
TG08.1-A014	Steel-framed ç	glazed curtain wall (W-8) - G	lass Types GL-2 & GL-2A	Closed	11/30/2010	12/14/2010	12/06/2010	Potentially	, [
From: Webcor C	Construction LP	David Hungerford	To: Turner Construction Con	npan Daphne Faulkner	Answered By	:Adamson Asso	ciates, Inc Geo	rge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/D	wg Sheet: 08 44 36-26	3				on all vertical su			
A-4, there are g	according to 08 44 36 lass types GL-2 & GL-s) of GL-2 & GL-2A.					8360. GL-2A is of the cafe show		Jin	

To: Turner Construction Compan Daphne Faulkner

Closed

11/30/2010

12/14/2010

Answered By: Adamson Associates, Inc George Metzger

12/07/2010

Potentially

Steel-framed glazed curtain wall (W-8) - Glass Frit

David Hungerford



From: Webcor Construction LP

Co-Author:

David Hungerford

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Adamson Associates, Inc George Metzger

860 of 1053 11/05/2013

Time:

10:53 AM 30100

20100 Transhay Transit Contar Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/Dwg Sheet: 08 44 36-26 / A1-8351 3. Glass spec: According to spec 08 44 36-26, para 2.2-A-1, no frit is required for GL-1. Glass with frit is shown on dwg. A1-8351. Should this glass be provided with frit or not? G08.1-A016 Steel-framed glazed curtain wall (W-8) - Removable sections From: Webcor Construction LP David Hungerford To: Turner Construction-Author:					1/A1-8353. GL referenced 1// elevation 1/A1 In the docume eliminated abo and south elev glass in this zo	ed on elevation 1A is required A1-8351. GL-1A -8351 below ele ents issued for b ove elevation 96	1/A1-8352 and on the glass roof is required on evation 96"-9". id, the frit will be 1"-9" on the north 1/A1-8351, and 1		
TG08.1-A016	Steel-framed gla	nzed curtain wall (W-8) - R	emovable sections	Closed	11/30/2010	12/14/2010	12/07/2010	Potential	lly
From: Webcor Constru	ction LP	David Hungerford	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/Dwg She	eet: 08 44 36-26					e glass requirer	nent will be delete	ed :	
4. Removable section location(s) of the "removable spec 08 44 36-2 & 36-12.	ovable section of	curtain wall" per			in the docume	ents issued for b	id.		
TG08.1-A017	Steel-framed gla	nzed curtain wall (W-8) - Fi	restopping	Closed	11/30/2010	12/14/2010	12/06/2010	Potential	lly 🗌
From: Webcor Constru	ction LP	David Hungerford	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	Adamson Asso	ociates, Inc Georg	ge Metzger	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Spec Section/Dwg She	eet: 08 44 36						nywhere with the		
5. Fire stopping: per spec 08 44 36-32, para required for the W-8 as location of the fire stop	a 2.7-C, is there a seembly? Please	iny fire stopping advise on the			modified to de		tion 08 44 36 will ping paragraph 2 r bid.		
TG08.1-A018	Metal-framed sk	ylights (W-10) - Steel		Closed	11/30/2010	12/14/2010	12/07/2010	Potential	IIv 🗆

To: Turner Construction Compan Daphne Faulkner



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

861 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

	9		-			
	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
SUGGESTION:		ANSWER: Accept Suggestion: This question will be resolved prior to the				
		documents is	sued for bid.			
iss	Closed	11/30/2010	12/14/2010	12/06/2010	Potential	ly 🗌
ord To: Turner Construction Compan Da	phne Faulkner	Answered B	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
SUGGESTION:		ANSWER:	Accept Sug	gestion:		
		"Final glass s results of test	chedule to be d ing defined in s	etermined from th	ne	
	Closed	12/01/2010	12/15/2010	12/07/2010	Potential	ly 🗀
To: Turner Construction Compan Da	phne Faulkner	Answered B	y :Adamson Ass	ociates, Inc Geor	ge Metzger	
SUGGESTION:		ANSWER:	Accept Suc	gestion:		
			will be resolved			
	Closed	12/01/2010	12/15/2010	12/07/2010	Potential	ly 🗌
To: Turner Construction Compan Da	phne Faulkner	Answered B	√ :Adamson Ass	ociates, Inc Geor	ge Metzger	
	To: Turner Construction Compan Da SUGGESTION: To: Turner Construction Compan Da SUGGESTION:	SUGGESTION: Closed To: Turner Construction Compan Daphne Faulkner SUGGESTION: Closed To: Turner Construction Compan Daphne Faulkner SUGGESTION: Closed Closed	SUGGESTION: Closed To: Turner Construction Compan Daphne Faulkner SUGGESTION: ANSWER: "Heat strength Section 08 65 "Final glass s results of test and calculation. Closed To: Turner Construction Compan Daphne Faulkner Closed To: Turner Construction Compan Daphne Faulkner Answered By SUGGESTION: ANSWER: This question documents is Closed 12/01/2010 ANSWER: This question documents is	SUGGESTION: Closed To: Turner Construction Compan Daphne Faulkner SUGGESTION: Closed To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Ass "Heat strengthened" glass in Section 08 63 03/2.2-A is req "Final glass schedule to be d results of testing defined in sand calculations." Closed To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Ass SUGGESTION: Answered By: Adamson Ass SUGGESTION: Answered By: Adamson Ass SUGGESTION: Answered By: Adamson Ass Closed 12/01/2010 12/15/2010 Answered By: Adamson Ass Closed 12/01/2010 12/15/2010 Answered By: Adamson Ass Closed 12/01/2010 12/15/2010	SUGGESTION: ANSWER: Accept Suggestion: This question will be resolved prior to the documents issued for bid. Closed 11/30/2010 12/14/2010 12/06/2010 To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Theat strengthened glass in accordance with Section 08 63 03/2.2-A is required. As noted, "Final glass schedule to be determined from the results of testing defined in section 1.5 A 12.g and calculations." Closed 12/01/2010 12/15/2010 12/07/2010 To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Suggestion: This question will be resolved prior to the documents issued for Bid. Closed 12/01/2010 12/15/2010 12/07/2010	SUGGESTION: ANSWER: Accept Suggestion: This question will be resolved prior to the documents issued for bid. To: Turner Construction Compan Daphne Faulkner SUGGESTION: ANSWER: Accept Suggestion: Answered By: Adamson Associates, Inc George Metzger **Heat strengthened** glass in accordance with Section 08 63 03/2.2-A is required. As noted, Final glass schedule to be determined from the results of testing defined in section 1.5 A 12.g and calculations.** Closed 12/01/2010 12/15/2010 12/07/2010 Potential To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Metzger Closed 12/01/2010 12/15/2010 12/07/2010 Potential To: Turner Construction Compan Daphne Faulkner Answered By: Adamson Associates, Inc George Metzger ANSWER: Accept Suggestion: This question will be resolved prior to the documents issued for Bid. Closed 12/01/2010 12/15/2010 12/07/2010 Potential

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 862 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

	The Basis of D Bergermann a	Design Report fr nd Partner LP v	om Schlaich		
Closed	10/11/2010	10/25/2010	10/13/2010	Potential	ly 🗌
Daphne Faulkner	Answered By	:Webcor Constr	uction LP Joann	ne Filipas	
	ANSWER:	Accept Sugg	gestion:		
	electrical lines planter boxes. contractor sha lines within the existing electri of the new inte future use and (and lights) by	feeding existing Prior to remova Il verify the loca e limits of work. cal lines shall o erim screen wall connection to r others at a futu	g lights within exist of the planters, it on of existing election of existing electing and cappiccur at the face (rand shall facilitate einstalled planter	the ectrical ing of north) e the boxes	
	Fyfe, David (U	RS Corporation)		
Closed Daphne Faulkner	10/11/2010 Answered By	10/25/2010 :Webcor Constr	10/13/2010 ruction LP Joann		ly
	anchors and a requirements approve.	o propose stone ccessories that of the Contract I	support systems comply with Documents; Archi		
	Daphne Faulkner	Closed 10/11/2010 Daphne Faulkner Answered By ANSWER: Contractor is t electrical lines planter boxes. contractor shalines within the existing electric of the new intefuture use and (and lights) by Drawing C-200 Fyfe, David (U Closed 10/11/2010 Daphne Faulkner Answered By ANSWER: Contractor is t anchors and a requirements of approve.	Closed 10/11/2010 10/25/2010 Answered By:Webcor Constructor is to locate, cut, an electrical lines feeding existing planter boxes. Prior to remova contractor shall verify the local lines within the limits of work. existing electrical lines shall on of the new interim screen wall future use and connection to r (and lights) by others at a future Drawing C-2000. Fyfe, David (URS Corporation Closed 10/11/2010 10/25/2010 Answered By:Webcor Constructor is to propose stone anchors and accessories that requirements of the Contract I approve.	The Basis of Design Report from Schlaich Bergermann and Partner LP will be modified in documents issued for bid. Closed 10/11/2010 10/25/2010 10/13/2010 Answered By:Webcor Construction LP Joann Answered By:Webcor Construction LP Joann Contractor is to locate, cut, and cap all existing electrical lines feeding existing lights within exist planter boxes. Prior to removal of the planters, contractor shall verify the location of existing electrical lines within the limits of work. Cutting and capping existing electrical lines shall occur at the face (not the new interim screen wall and shall facilitate future use and connection to reinstalled planter (and lights) by others at a future date. See Note Drawing C-2000. Fyfe, David (URS Corporation) Closed 10/11/2010 10/25/2010 10/13/2010 Answered By:Webcor Construction LP Joann Answered By:Webcor Construction LP Joann Contractor is to propose stone support systems anchors and accessories that comply with requirements of the Contract Documents; Archim	Closed 10/11/2010 10/25/2010 10/13/2010 Potentiall Answered By:Webcor Construction LP Joanne Filipas ANSWER: Accept Suggestion: Contractor is to locate, cut, and cap all existing electrical lines feeding existing lights within existing planter boxes. Prior to removal of the planters, the contractor shall verify the location of existing electrical lines within the limits of work. Cutting and capping of existing electrical lines shall occur at the face (north) of the new interim screen wall and shall facilitate the future use and connection to reinstalled planter boxes (and lights) by others at a future date. See Note 3 on Drawing C-2000. Fyfe, David (URS Corporation) Closed 10/11/2010 10/25/2010 10/13/2010 Potentiall Answered By:Webcor Construction LP Joanne Filipas ANSWER: Accept Suggestion: Contractor is to propose stone support systems, anchors and accessories that comply with requirements of the Contract Documents; Architect to approve.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

863 of 1053 11/05/2013

Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
G19.1-0003	TG19.1 Questi	ions 0003 - Stone		Closed	10/11/2010	10/25/2010	10/13/2010	Potentia	lly 🗌
From: Webcor Cor	nstruction LP	Joanne Filipas	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	nne Filipas	
Co-Author:									
REQUEST: Ref S-0002 Note (6-A		SUGGESTION:		ANSWER:	Accept Sug	gestion:	nels. All	
		for the stone panels.			available infor been provided	rmation on exist d on the drawing acturer and spe	ing stone panels ings. Contractor is ings of new stone	has to	
					Fyfe, David (l	JRS Corporation	۱)		
G19.1-0004	TG19.1 Questi	ions 0004 - (N) Lighting		Closed	10/11/2010	10/25/2010	10/13/2010	Potentia	lly 🗌
From: Webcor Cor	nstruction LP	Joanne Filipas	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	nne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
will be reconnecte					electrical lines reconnect exi- lights. New in pavers/toppin located at new between the f concrete curb Existing electing ground lights	s servicing exist sting electrical li-ground lights a g slab. New in-gw wall slots (4 to ace (north) of the See Note 10 corical power sour is to be located	xisting undergrouing in-ground lightnes to new in-gree to be inset intoground lights shautal) and shall be the new wall and the Drawing C-200 ce servicing existing field; locating	nts and cound of asphalt libe placed he new 00. ting in-and	
					with TJPA Re		rce to be coordir	nated	
G19.1-0005	TG19.1 Questi	ons 0005 - (E) Lighting		Closed	10/11/2010	10/25/2010	10/13/2010	Potentia	lly 🗌
From: Webcor Cor	nstruction LP	Joanne Filipas	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joan	nne Filipas	
Co-Author:									
	10 ecifications for the (order to match man		SUGGESTION:		ground lights Contractor to	to be determine submit manufac	gestion:	ractor. of new	



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

864 of 1053

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

				•		•			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					Fyfe, David (l	JRS Corporation	n)		
G19.1-0006	(E) Lighting			Closed	10/15/2010	10/29/2010	10/13/2010	Potential	ly 🗌
From: Webcor Cor	struction LP	Joanne Filipas	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	
Co-Author:									
REQUEST: Ref C-2000 Note 1			SUGGESTION:		conductor/cor	nduit shall be de	xisting electrical termined in field b		
electrical line servi to (n) in ground lig showing (e) condu additional demo of	icing (e) in ground lights. There are no a lit routing and depth f concrete or excava	sbuilt drawings to determine if			Contractor; work shall be coordinated with the TJPA Representative. Fyfe, David (URS Corporation)				
G19.1-0007	Nelson Studs	Welding Requirements		Closed	10/15/2010	10/29/2010	10/15/2010	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Joanne Filipas	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	- 🗀
Co-Author:								·	
the #6 verticals are #6 verts to be weld are the welding red	A on sheet S-4000 on sheet S-4	son Studs. Are the d plate? If so, what e) embed is not	SUGGESTION:		deformed bar the existing er full penetratio continuous ar be drilled and Hilti RE500 or	anchors. Yes, # mbed plate. Th n. If the existing nd/or does not e	elson product are #6 verticals are we e welding requiren embed plate is no xist, the #6 vertical existing concrete il.	nent is ot Is shall	
G19.1-0008	(E) Chain Link			Closed	10/15/2010	10/29/2010	10/15/2010	Potential	iy 🗌
From: Webcor Cor	nstruction LP	Joanne Filipas	To: Turner Construction Co	ompan Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

865 of 1053 11/05/2013

Time: Job:

Fyfe, David (URS Corporation) 10/15/2010

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
relocated. Dra	for (e) chain link gate to wings do not show were additional fencing is requ	the gate shall be			required. The in field with the new temp Drawing C-20	location of the one of the one of the one of the order of	in link gate/fence gate shall be coord entative. The exte on fence is shown a) 10/15/2010	dinated nt of	
TG19.1-0009	Joint Sealant			Closed	10/15/2010	10/29/2010	10/15/2010	Potential	
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	
Co-Author:									
REQUEST: A-B/A-6000			SUGGESTION:		,		gestion:	ls.	
aluminum com	the drawings show a 1/ posite panel and the epot. The (e) wall joint is cant be sealed?	oxy set stone panel			Fyfe, David (l	JRS Corporation	n) 10/15/2010		
TG19.1-0010	Painting			Closed	10/15/2010	10/29/2010	10/15/2010	Potential	ly 🗌
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction Compa	n Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joann	ne Filipas	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
A&D/A-6000							s on the terminal		
to receive 16ga (e) wall looks to any specific rec	call for the wall on the tra a galv. Coated G90 roller o be plaster w/expansior quirements for joints etc all get painted?	d steel panels. The n jonts. Are there			and Detail D/J joints. Intermore provided. Not waterproofing 16 Ga steel s width of sealin sheet joints a behind with si screws at 8" of	A-6000 for the to ediate horizontal e on Detail E/A- sheet behind, a heet. The overland g tape between re then secured ainless steel se on center. The ro	of for the vertical jour pand bottom hor joints should not 6000 the SASM and the 2" overlap palso includes a the sheets. The to the plywood balf-tapping sheet molled sheet is to balance, but is not pand balf-tapping sheet molled sheet is to balance, but is not pand bottom hor sheets.	izontal be of the 3" metal acker netal	



contract award, the current schedule will not be

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

866 of 1053 11/05/2013 10:53 AM

30100

Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
TG19.1-0011	TG19.1 Questions	s 0011 - Concrete Curbs		Closed	10/15/2010	11/18/2010	10/15/2010	Potentia	Illy 🔲
From: Webcor/Oba	yashi Joint Venture	Manuel Saldana	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:Webcor Const	ruction LP Joar	ne Filipas	· 🗀
Co-Author:									
concrete curbs. De section. Do these of pavers of do they g	sht C-2000 calls for (- tail B-C-5000 shows the curbs get placed on top to down on top of the 4 te (N) curb? Are there equirements?	ne curbs in o of the (E) t" topping slab	SUGGESTION: Answered by David Fyfe, 10/15 New concrete curbs are to be p 4" topping slab. Remove and re as required to facilitate construc curb. Height of curb shall be me pavers. For vertical reinforcement, use spaced with a minimum of 4" co anchorage, drill four 1" embeds longitudinal reinforcement, use minimum 3" cover.	laced on top of existing place existing pavers ction of new concrete easured from top of four #3 bars (equally over at each end); for per curb. For	4" topping sla as required to curb. Height of pavers. For vertical re spaced with a anchorage, dr longitudinal re minimum 3" c	b. Remove and facilitate construction for curb shall be resimilar inforcement, using minimum of 4" ill four 1" embedinforcement, us	placed on top of replace existing uction of new coneasured from to be four #3 bars (e cover at each ends per curb. For e two #3 bars wi	pavers ncrete op of qually nd); for	
TG4.2R-0001 From: Webcor Cons	AWSS Experienc	e Requirement Nhi Tran	To: Turner Construction Comp	Closed an Daphne Faulkner	01/24/2011 Answered By	02/03/2011 ::Webcor Const	01/28/2011 ruction LP Joar	Potential	lly
There was discuss upcoming addendu requirements to do requirements curre potential to rule our reduce the pool of	pecifications Section 0: ion at the Pre-Bid Mee im may change the ex the AWSS work, abountly in the specification t perfectly competent bidders. Shaw Pipeline om the specifications in	eting that an perience we the usual DPW ans. This has the bidders and be hopes there will	SUGGESTION:		ANSWER: There will be a carried in bid	•	gestion: quirements curre	ntly	
TG4.2R-0002 From: Webcor Cons	•	rocurement Schedule Nhi Tran	To: Turner Construction Comp	Closed an Daphne Faulkner	01/24/2011 Answered By	02/03/2011 ::Webcor/Obaya	01/25/2011 ashi Joint V∈Rich	Potential and Buellesb	
REQUEST: The foundry that fa Shaw Pipeline Inc.	bricates the fittings red 18-20 weeks to procu frame will be similar a	re fittings.	SUGGESTION:		parties involve	Accept Sugnote to this QBD will bed. W/O will not aswer at this time	require input from the providing a	m all	



Page: Date: Time:

Job:

867 of 1053 11/05/2013

30100

10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
achievable. Will a the time taken to	in extension of time by get the fittings?	granted, equal to							
TG4.2R-0003	AWSS Eittings II	Materials Payment		Closed	01/24/2011	02/03/2011	01/25/2011	Potential	
From: Webcor Co	_	Nhi Tran	To: Turner Construction Compa				Powers Au Sara		у
Co-Author:	nstruction El	Will Hall	10. Turner Construction Compa	ан Барппе ғашкпег	Allsweled by	y. Hansbay John	. Fowers Au Sara	Gigilotti	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
in full upfront. Ass the contractor get made upfront to the	fabricates the fittings was with the fittings to install, was the fittings to install, was the trade subcontractor payment and of the full	8-20 weeks before will a payment be at the time the			paying for ma public work. T the CM/GC m 75% of fair m stored on site	terials prior to the limited except as apply for a parket value) for it subject to insp. Contract Genera	prohibit TJPA fro neir incorporation otion to this rule i artial payment (u materials delivere ection and specif I Conditions (Sec	into the s that p to ed and fied	
TRANSWORLD 012	Detail required f	for concrete sleeve inst	allation	Closed	02/08/2011	02/08/2011	04/20/2011	Potential	ly 🗌
From: Transworld	Construction, Inc.	Erik Liu	To: Webcor Construction LP	David Hungerford	Answered By	:Webcor Const	ruction LP Mari	na Rosso	
Co-Author:									
The existing cond consistent with our indicates that the existing in which we are to direfer to the attached phican clearly see that a concrete ring asset	If for concrete sleeve in lition of the manhole cour contract documents. In anhole sits on existinutial 1 inch embedment. In the motograph indicated as lat the manhole cover embly. Please provide e installation of the reconstitution of the re	overs is not Detail 1/C- 5001 g concrete slabs to However, if you picture one, you is actually a part of a new detail and	SUGGESTION:			Accept Sug uperseded by Tra Turner as T-003	answorld RFI 012	2.1,	
TRANSWORLD 014	RFI is not applic	cable		Closed	04/20/2011	04/30/2011	04/20/2011	Potential	lv \square



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

868 of 1053 11/05/2013

Time: 10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Transworld C	Construction, Inc.	Erik Liu	To: Webcor Construction LP	David Hungerford	Answered By	:Webcor Const	ruction LP Marii	na Rosso	
REQUEST: RFI has been VOII	DED. See attachment		SUGGESTION:		ANSWER: RFI has been	Accept Sug			
RANSWORLD 021	Instructions on r	new Barricade Wall		Closed	03/21/2011	03/22/2011	03/28/2011	Potential	lly 🗌
From: Transworld C	Construction, Inc.	Erik Liu	To: Webcor Construction LP	David Hungerford	Answered By	:Webcor Const	ruction LP Davi	d Hungerfor	L L
Co-Author:				Ü				J	
desired in lieu of th weekend is a clear indication th used as a visual ba Please issue instru	tructions on what barr ne plywood wall. The s hat a solid material wa aricade. The storm ble actions on how we are e barricades, caution	all should not be ew down that wall. to proceed.	SUGGESTION:		ANSWER: Due to field di is null and voi		gestion: ate the problem,	this RFI	
From: Transworld C		or the existing conduit p Erik Liu	rotruding from the soil from the ba To: Webcor Construction LP	semen: Closed David Hungerford	03/29/2011 Answered By	03/29/2011 :Webcor Const	03/29/2011 ruction LP Davi	Potential	
Co-Author:									
protruding from the The electrical conduit is western transforme see the pictures of this con the scaffolding plan	ng conduit on the sour e soil coming from the s approximately 6 feet er vault vent opening. Induit that is currently s inking. tructions on electrial v	basement wall. east from the Attached you can ticking out below	SUGGESTION:		ANSWER: This RFI is su forwarded as		gestion: answorld RFI 022	2,	
RANSWORLD 022.1	Electrical work fo	or the existing conduit p	rotruding from the soil from the ba	semen Closed	03/29/2011	03/29/2011	03/29/2011	Potential	lly
From: Webcor Con	struction LP	David Hungerford	To: Webcor Construction LP	David Hungerford	Answered By	:Webcor Const	ruction LP Davi	d Hungerford	_ t
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



We need direction for the electrical installation inside the new concrete stem wall. We are planning on installing the

formwork for the south-side of the wall starting

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

The question stated "It is our understanding that we

are completing abandoning the originally anticipated

electrical lighting work as anticipated in our contract

869 of 1053 11/05/2013

Time:

10:53 AM 30100

JOINT VENTUR	E		30100 - Tran	isbay Transi	t Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
protruding from the The electrical conduit is western transforme see the pictures of this con the scaffolding plar also attached for your re	ng conduit on the sou soil coming from the approximately 6 fee or vault vent opening. duit that is currently aking. An added supp eference. ructions on electrial	e basement wall. It east from the Attached you can sticking out below blemental plan is			This RFI is su Turner as T-0		FI 022.2, forwarde	ed to	
TRANSWORLD 023	Void below exis	ting embed		Closed	03/31/2011	04/10/2011	03/31/2011	Potential	lly
From: Webcor Cons	struction LP	David Hungerford	To: Transworld Construction, I	nc. Erik Liu	Answered B	:Webcor Const	ruction LP David	d Hungerford	t
Co-Author:									
the voids per W/0 F is requesting to use the following sheet. Ap Doug Jacobson where the firm of the specification program from another same	ting work scheduled RFI #T-0045 the g ne grout mix design a parently this matter to knows that this sulne way. The attached ner project not relate ctor's recommendational release advise if the ule.	routing contractor as indicated in the was raised with Mr. bostitution d sheet is a d to the Transbay on is to use this	SUGGESTION:				gestion: compelted and the nation attached.	nis RFI	
TRANSWORLD 025		uit and box detail	_	Closed	04/04/2011	04/05/2011	04/15/2011	Potential	- 🗀
From: Transworld C	construction, Inc.	Erik Liu	To: Webcor Construction LP	David Hungerford	Answered B	:Webcor Const	ruction LP David	d Hungerford	į
Co-Author: REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

870 of 1053 11/05/2013

Time: 10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
	_						

Wednesday morning. As such, we need to install the electrical conduits and boxes tomorrow, Tuesday, at the latest to meet our schedule.

Please provide detailed information on the entire conduit run and the elevation of the boxes.

It is our understanding that we are completing abandoning the originally anticipated electrical lighting work as anticipated

in our contract documents.

From: Webcor Construction LP

documents." However there are no electrical drawings in the contract documents. This RFI was recieved at 4:28pm, the day before the wall was to be closed up, and requests an answer by tomorrow, which is not enough time to review. Due to the timing of this RFI, it was not submitted to the design team, but instead a meeting was held with URS in the field for direction. For record, see the attached inspection report and email for what is to be done.

TRANSWORLD 026.1 301 Mission Wall - Framing Modifications and Base Plate Conflict

David Hungerford

SUGGESTION:

Closed

05/16/2011

06/01/2011

Co-Author:

REQUEST:

Reference: C/S-5000, B/A-6000, attached sketches, and referenced RFI's

Field verified measurements and layout for the location of the structural steel does not coordinate with the stucco inset locations as shown on detail C/S-5000. In addition framing around the perimeter of the wall (aluminum panel locations) had to be modified due to assembly and installation methods. (See attached pictures and sketches. This RFI addresses three framing issues. All issues have been discussed in the weekly 301 Mission Wall subcontractor meeting with URS, Turner, Transworld, TJPA and Webcor-Obayashi.

- 1.) In two of the four stucco slot locations, field conditions show that a portion of the base plate conflicts with the stucco slot. This base plate encroaches into the stucco panel per dimensions shown on the attached sketch. Please advise.
- 2.) The structural steel had been relocated to CL of the wall (per RFI T-0098) and therefore studs around the steel per B/A-6000 could not be set per plan. Transworld has installed hat channel metal framing to the face of the structural steel tube using fasteners into the structural steel as per RFI T-0106 as well as modified the boxed

To: Turner Construction Compan Daphne Faulkner Answered By: Webcor Construction LP Marina Rosso

> ANSWER: **Accept Suggestion:**

Can't find answer in Constructware.

05/06/2011



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

2) conduit running east-west along north side of wall

3) conduit running east-west along south side of wall, (note this option only required providing 4 short (approx. 18") conduit runs from south side of wall to north side of wall prior to pour, and was provided in case there are issues with options 1 and 2)."

as installed this morning;

871 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Tranchay Transit Contar Project

framing per attached sketches around the perimeter of the wall. Sizes of metal framing were used to align with adjacent framing per plan. This work is currently installed, please confirm framing modifications per attached marked up details are acceptable. 3.) Blocking a the top of the wall at the north side (between the framing and 8"x 8" tube steel) was not installed, as there was no room between the framing and steel. Framing was attached directly to the tube steel. See attached.		30100 - 1ran	sbay Transi	t Center	Project			
Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
 wall. Sizes of metal framing were used to a adjacent framing per plan. This work is currely please confirm framing modifications per at up details are acceptable. 3.) Blocking a the top of the wall at the nort (between the framing and 8"x 8" tube steel installed, as there was no room between the steel. Framing was attached directly to the 	lign with rently installed, ttached marked h side was not e framing and tube steel. See							
TRANSWORLD 028 Install the sleeves	for light fixtures		Closed	04/14/2011	04/24/2011	04/14/2011	Potentially	, _П
From: Transworld Construction, Inc.	Erik Liu	To: Webcor Construction LP	David Hungerford	Answered By	:Webcor Const	ruction LP Davi	d Hungerford	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per W/O Field directions, TCI was required sleeves for future light fixtures at new concibelow the asphalt paver. Please confirm if	rete footing					lirection on place he 301 Mission o		
acceptable.				"We met in th provide/install scheduled po electrical/cond	three conduit la ur and help ensu	ing and agreed to byout options to noting the new covides a code co	naintain	
						stalled prior to too required clearan		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

872 of 1053

Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
TRANSWORLD 029	Extra HSS Steel	Column needed		Closed	04/13/2011	04/23/2011	 04/13/2011	Potentia	Ily 🗌
From: Transworld C	Construction, Inc.	Erik Liu	To: Webcor Construction LP	David Hungerford	Answered B	y:Webcor Const	ruction LP Davi	d Hungerford	d
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: S-4000)						ents. Specifically		
be maintained 8" cl is located. The two	it is indicated that the lear on both sides wh (2) steel tube at the Please clarify that an	nere the utility vault east end wall is			x 10" tube ste 1. HSS 10" x 2. Maintain 8'	eel. 10" x 5/8" at 5'-0	requirements of	0	
TRANSWORLD 031	Stone and Alum	inum Panel layout sketch		Closed	06/08/2011	04/19/2011	04/19/2011	Potentia	lly
From: Webcor Cons	struction LP	David Hungerford	To: Transworld Construction, Ir	nc. Erik Liu	Answered B	y: Webcor Const	ruction LP Davi	d Hungerford	d
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please confirm the layout is acceptable	attached aluminum a e.	and stone tile			question. Wh		e an issue or a g ed? We will not fo vided.		
					Responded to	RFI in an emai	l on 4/19/11.		
TRANSWORLD 038	Concrete mix de	esign for concrete repair w	ork	Closed	06/08/2011	06/18/2011	06/08/2011	Potentia	lly 🗌
From: Webcor Cons	struction LP	David Hungerford	To: Webcor Construction LP	David Hungerford	Answered B	y:Webcor Const	ruction LP Davi	d Hungerford	d
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Rapid Set for Cond Please identify a property would meet these shave	to submittal title TA10 crete Repair (TCI #31 roduct or a custom m specifications. In our the suggested grout p	l) ix design that past practice we			incorrect. The past Webcor- compliance w	e suggested prod Obayashi's pos	given per respor	ubmitted	
concrete patch. In o other contractors, it seen using a grout produ be the appropriate pro The proposed grou	our investigations with ms that the general count (such as the one product for this application to seems to offer greating that the original countries are than the original countries of the original countries are than the original countries are than the original countries of the original countries are than the original countries are than the original countries or the original countries are the original countries.	h suppliers and onclusion is that proposed) would on and condition. Iter strength and			between W/C between Turr type and an e recieved notin Upon further acceptable, w	and Turner, the ner and URS, whe mail chain starting that the mate review of codes, which had been of	d from conversaten a message se pich relayed the ping from URS warial is not acceptate the material is discussed in the pin Monday June 6	nt roduct s able. weekly	



U-0002

From: Webcor Construction LP

Conflict with Electrical and Water Pipe Station 5.50

Joanne Filipas

Webcor/Obayashi Joint Venture

Page: Date:

873 of 1053

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job:

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
achieve these speci designers, we can o generally be used a	duct that you could in fications? Since we a only suggest those pr and accepted in our si standard of practice	are not the project oducts that would tandard of practice			products that sub meeting.	will be used to re	answorld is to sul epair this condition and is submitting pa	n, per	
TRANSWORLD 039	301 Mission Wall	l - New concrete curb detai	I	Closed	06/13/2011	06/30/2011	06/13/2011	Potential	lly 🗌
From: Webcor Cons	truction LP	David Hungerford	To: Webcor Construction LP	David Hungerford	Answered By	:Transworld Co	nstruction, Erik L	_iu	
Co-Author:									
REQUEST: Please provide deta	il for the new concre	te curb	SUGGESTION:		ANSWER: David,	Accept Sug	gestion:		
					I will revise the the concrete s	e rfi b ased on to	mittal that you go oday's discussion ot be necessay ba ny.	and	
					-Erik				
U-0001	First Street Elect	rical or Telecom Trench		Closed	10/25/2010	11/08/2010	11/05/2010	Potential	lly
From: Webcor Cons	truction LP	Joanne Filipas	To: Turner Construction Compa	an Daphne Faulkner	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST: Ref U-2016, U-2020	and Attached		SUGGESTION:				gestion: subject trench is	correct,	
2020 calls out the s	out a 9-6", 1-4" E by ame trench as AT&T s. Please confirm th	's. The section			the trench is A	AT&T's.			

To: Turner Construction Compan Daphne Faulkner

Closed

10/25/2010

11/08/2010

Answered By: Webcor Construction LP Jeffrey Negley

11/05/2010

Potentially



U-0005

Water, Telecom and Electrical Conflict at Station 5.50

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

874 of 1053

Time:

11/05/2013 10:53 AM

30100

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:									
REQUEST	: 8 and attached.		SUGGESTION:		ANSWER:	Accept Sug	gestion:	235	
		over forward that a			and 6.	rrendir per 0-340	oo General Notes	2, 3, 3	
conflict exi	review of the model, we hasts between the joint trench pipes. Please advise.				inch cover (1 adjust joint tr	8-inch below stre ench at lateral cr nch separation a	naintain a minimun eet concrete base rossing to maintai t crossing per U-3	e) and n a	
-0003	Conflict Between	een Electrical trench and tele	ecom conduit near station 1.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction Comp	an Daphne Faulkner	Answered B	y:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST	1		SUGGESTION:		ANSWER:	Accept Sug			
Ref U-2007	7, and attached						oss under the 6-4 lk, see U-3407 an		
between th	review of the model, we have electrical joint trench and n 1.50 on Minna Street. Pl	d telecom conduit			3410 Section				
-0004	Telecom and \	Water Conflict Station 3.25		Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction Comp	an Daphne Faulkner	Answered B	y :AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST	1		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref U-2007	7 and attached.				Adjust Joint 7 and 6.	French per U-340	00 General Notes	2, 3, 5	
water later	review of the model, we have all running north on Minna m conduits in the joint trend	street is in conflict			Construct hy		naintain a minimul eet concrete base crossing.		

Closed

10/25/2010

11/08/2010

11/05/2010

Potentially



REQUEST:

Ref U-2030 and attached.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

875 of 1053 11/05/2013

Time:

Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

ANSWER:

Accept Suggestion: Electrical trenches at STA 6+42 +/- and at STA 6+85

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:AECOM Techr	nical Service Eric Z	agol	
Co-Author:									
During our rev water system of Minna Street a	I-2030 and attached. iew of the model, we ha running in the east/west at station 5.50 is in conflical/Telecom joint trenct		- Adjust Joint 5 and 6 Construct hy inch cover (18 adjust Joint T At water main constructed b - Construct water AT&T to des	rdrant lateral to r 3-inch below stre rench at lateral of crossing with 6 y AT&T in Phase ater main as sho ign and constru	t Trench: 400 General Notes maintain a minimu et concrete base) crossing. 4-inch conduit e II (Sheet U-2030	m 28- and)): conduit			
J-0006 From: Webcor	Gas and Electi Construction LP	rical Conduit Conflict Joanne Filipas	To: Turner Construction Comp	Closed pan Daphne Faulkner	10/25/2010 Answered By	11/08/2010 :AECOM Techr	11/05/2010 nical Servic _t Eric Z	Potential agol	ly
Co-Author:									
A conflict exist	l-2030 and attached. ts between the 4" HPG a station 6.45. Please ad		SUGGESTION:		+/- as shown Utilities Project TG04.5.1. The these trenche others pendin through the Trans shown in She located below Notes 2, 3, 5, 5	on Sheet U-2030 or Phase II work the FINAL alignm is will be coording the conduit peransit Center perit Center West Cet U-3410 Section the 4-inch HPG and 6 adjust Join	gestion: 42 +/- and at STA 0 are Relocation of Not Included in Pent and elevation ated and designer netration elevation rimeter shoring wa Center Electric Va on Q electric ductt i. Per U-3410 Gen nt Trench at cross ow the 4-inch HPC	of ackage of d by his all and ult. As back is heral ings to	
J-0007	Water and Elec	ctrical Conduit Conflict at	Station 6.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Webcor	Construction LP	Joanne Filipas	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:AECOM Techr	nical Service Eric Z	agol	
Co-Author:									

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 876 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	line running east/west along n an Electrical trench at sta		+/- as shown on Sheet U-2030 are Relocation Utilities Project Phase II work Not Included in F TG04.5.1. The FINAL alignment and elevation these trenches will be coordinated and designs others pending the conduit penetration elevation through the Transit Center perimeter shoring we into the Transit Center West Center Electric Va 2030 elevation shows the ductbancks crossing the 8-inch water in Minna Street.	Package of of by ns all and oult. U-					
U-0008	Gas and Wate	r Conflict at Station 7.30		Closed	10/25/2010	11/08/2010	11/05/2010	Potential	
From: Web	cor Construction LP	Joanne Filipas	To: Turner Construction Compan [Daphne Faulkner	Answered By	:AECOM Techn	ical Service Eric 2	Zagol	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Ref U-2009	and attached.					rench per U-340	0 General Notes	2, 3, 5	
	exists between the HPG and Minna Street. Please advi				Construct hyd inch cover (18 adjust joint tre minimum 6-in	3-inch below stre ench at lateral cre ch separation at	aintain a minimur et concrete base ossing to maintai crossing per U-3 &E on-site inspec) and n a 400	



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

877 of 1053 11/05/2013

Date: Time:

: 10:53 AM 30100

				9	.					
umber	To: Turner Construction Compan Daphne Faulkner To: Turner Construction Compan Daphne Faulkner SUGGESTION: SUGGESTION: ANSWER: Accept Suggestion: U-2009 and attached Sewer line running in the north south direction at ion 9.25 along First street is in conflict with the strict of long translation. Please advise. Electrical Line Transition In Joint Trench from Minna to Shaw Alley Closed To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction PiU-3410 attached. U-3408, Q/U-3410, P/U-3410 attached. U-3408, Q/U-3410, P/U-3410 attached. Suggestion: Suggestion: Answered By:AECOM Technical Service Fric Zeg Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner Answered By:AECOM Technical Service Fri	Cost Impact	Proceed							
-0009	Joint Trench	and Sewer Conflict on First	Street at Station 9.25	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌	
From: Webcor C	onstruction LP	Joanne Filipas	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:AECOM Techr	ical Service Eric	Zagol		
Co-Author:										
REQUEST: Ref U-2009 and	attached		SUGGESTION:		Adjust Joint T			5 2, 3, 5		
station 9.25 alor	ng First street is in co	nflict with the			Joint Trench			9 +/- is		
-0010			_					Potential		
From: webcor C	onstruction LP	Joanne Filipas	10: Turner Construction Comp	an Daphne Faulkner	Answered By	AECOM Techr	ical Service Eric	Zagol		
REQUEST:	1.2440 D/II.2440 off	aabad	SUGGESTION:					Caption		
Section Q/U-341 north side of the same 5" and 2" trench as it turns	10 shows a 5" and 2" joint trench. Section electrical lines on the snorth on Shaw Alley	electrical line on the n P/U-3410 shows the west side of the joint y. Is the intent for			Q/U-3410 sho					
-0011	Manhole #203	B Elevation Conflict		Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🖂	
From: Webcor C	onstruction LP	Joanne Filipas	To: Turner Construction Comp	oan Daphne Faulkner	Answered By	:AECOM Techr	nical Service Eric	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Ref U3031, U30	07 and attached.					ver MH#203 rim	to match existing	g grade		
21.75 however U	J-3007 calls out an e	levation of 22.0.								
-0012	Electrical/Tele	ecom Conflicts between Pla	n and Section	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌	
From: Webcor C	onstruction LP	Joanne Filipas	To: Turner Construction Comp	an Daphne Faulkner	Answered By	:AECOM Techr	ical Service Eric	Zagol		



From: Webcor Construction LP

Joanne Filipas

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

878 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Ref U-1108. U4000, H/4001 and attached.				ity Survey Sheets		
Section H/U-4001 shows the (E)(6)4"E(D) just north of the (E)T(NR) however the plans show it north of the (E) SS. Please advise.		Sheet U-1108 show the horizontal location north of (E) sewer. Section H on Sheet U-4001 shows the subject (E)(6)4"(D) at two locations, one is incorrect shown. The horizontal location of the subject duct i Section H on Sheet U-4001 should be consistent wi location shown in the Existing Topographic and Utili Survey Sheets and Sheet U-1108.				
J-0013 Water Connections at Howard	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly
From: Webcor Construction LP Joanne Filipas	To: Turner Construction Compan Daphne Faulkner	Answered By	y:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Ref I-3120, U-3116, U-3112			12"x12"x12" TE Sheet U-3120.	E at center line E	L 13.0	
There is a discrepancy in the elevations called out for the 12" water line connections at Howard. The First and Howard connection shows the elevation at 13 on U-3120 and no elevation is provided on Howard. If we were to scale, the elevation should be at 14. Please provide the connection elevation.						
J-0014 Size of Gas Line on First Street	Closed	10/25/2010	11/08/2010	11/05/2010	Potential	ly 🗌
From: Webcor Construction LP Joanne Filipas	To: Turner Construction Compan Daphne Faulkner	Answered By	:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Ref U-2003, U-2021 and attached.		HPG by PG& 2003.		4" as shown on S	heet U-	
The HPG line on U-2003 is 4". The same gas line on U-2021 is shown as 2". What size is the gas line?		2000.				
J-0015 LEED Requirements for RUP work	Closed	10/26/2010	11/09/2010	11/05/2010	Potential	ly 🖂

To: Turner Construction Compan Daphne Faulkner

Answered By:Transbay PMPC

Guy Hollins



of days. We have observed in their potholes that a

basement structure for the Rickenbacker Restaurant (123

2nd St.) extends out beyond the property line and under

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Plans titled "Revisions - Minna Street 12/27/10" for

realignment of Joint Trench.

879 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:								
REQUEST: RE: Specification 01-81-13 1.1.3B The specification section referenced which outlines the "LEED Project Lir the limit line is drawn on Minna Street and incorporates First Street, Fremo Street where they cross the new built this specification section that the RU enclosed are to be incorporated into	nit". On this drawing, et and Natoma Street nt Street and Beale ding. Is it the intent of P work in the areas	SUGGESTION:				gestion: ification section a JP work.	pply	
-0016 Street Light I	Relocation		Closed	11/02/2010	11/16/2010	11/17/2010	Potential	lly
From: Webcor Construction LP	Jeffrey Negley	To: Turner Construction Com	pan Michelle Smith	Answered By	:AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:								
REQUEST: Plan/Drawing Reference: U-3201 Please identify the PG&E manhole on Second St & Minna, where we are to connect the new conduit for the relocated street light on the west end of Minna St. The connection manhole depicted on the plans does not appear to be owned by PG&E - the cover is marked "Steam". Please review and advise.				Energy steam light conduit a existing street immediately w	manhole, adjangs shown, connecting the exist of the exist nnection with P	south of existing cent to existing streeting to and intereduced PG&E MH E-131 ing steam manhol G&E through BLF	reet cepting 9 e.	
-0017 JT Conflict w	ith Basement @ Rickenbac	cker Rest.	Closed	11/09/2010	11/23/2010	01/12/2011	Potential	lly 🗌
From: Webcor Construction LP	Jeffrey Negley	To: Turner Construction Com	pan Michelle Smith	Answered By	:AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:								
REQUEST: Reference sheet U-3407. PG&E has been potholing on the so Minna @ 2nd St. for a new gas line of		SUGGESTION:		ANSWER: E. Zagol 1/11/ See revised Jo		gestion:	hase I	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 880 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost
Number	Subject	Status	Created	Required	Answered	Impact Proceed

the sidewalk, along both Minna and 2nd Street. The basement appears to extend almost up to the roadway curb on 2nd Street and to face of curb or beyond on Minna. The joint trench at its current alignment (on Plan Sheet U-3407) along the south east corner of 2nd & Minna will be in conflict with this basement structure. Please review and advise.

E. Zagol 12/17/10

The Joint Trench as currently shown in Sheet U-3407 is in conflict with the 123 Second Street sidewalk basement between Minna Street stations 0+75 and 0+90.

Separate from the conflict mentioned above, PG&E has requested TJPA to add additional conduits to the Joint Trench.

Revised drawings will be provided that address the following:

Realignment of Joint Trench west of station 2+00, realignment of the sewer west of station 2+25, and revisions to the water line (vertical and hydrant lateral) west of station 1+02 to address the conflict with 123 Second Street sidewalk basement.

Modifications to Joint Trench sections from First Street to Second Street to accommodate PG&E's additional conduits.

Modifications at the future Transit Center stubouts to accommodate PG&E's Joint Trench configuration revisions.

RFI-U0050.

E. Zagol 11/18/10

AECOM will attend the planned site visit to 123
Second Street on 11/19/10 to evaluate conflict. We are actively working with PG&E to identify options for the Joint Trench alignment west of STA 1+12 if 123
Second Street basement is confirmed in conflict.

On 11/17/10 PG&E reported at TJPA's weekly PG&E coordination meeting that the preferred realignment option, north of the proposed sewer utilizing existing PG&E MH 1319, was electrically feasible. PG&E has scheduled field crews for the week of 11/29/10 to confirm that there is adequate space in their existing



Per conversations between Guy Hollins, Eric Zagol and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

881 of 1053

Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
· · · · · · · · · · · · · · · · · · ·	Guojean			<u>Status</u>				mpaot	1700000		
				manholes to facilitate the preferred option. Proceed with Joint Trench subsurface investigations and Joint Trench shop drawing preparation in accordance with plans and specifications for the Joint Trench east of STA 1+12 to STA 9+31.32 at First Street.							
J-0018	AWSS caps re	equirement		Closed	11/10/2010	11/10/2010	11/24/2010	Potential	ly		
From: Webcor	Construction LP	Jeffrey Negley	To: Turner Construction Co	mpan Michelle Smith	Answered B	y :AECOM Techr	nical Service Eric 2	Zagol			
Co-Author:											
attached. Please confirm 5 and MA-8 ar	sheets MA-5, MA-8, L that the AWSS caps are required prior to the interest to	shown on sheets MA- nstallation of the new	SUGGESTION:		to address a	two part questior inswered on 11/2	gestion: SFI U-0018.1 was an that arose. RFI U-4/10 and the RFI	U-			
J-0018.1	AWSS Remov	ral Work on First Street - S	cope Clarification	Closed	11/22/2010	11/24/2010	11/24/2010	Potential	ly 🗍		
From: Webcor	Construction LP	Jeffrey Negley	To: Turner Construction Co	mpan Michelle Smith	Answered B	y:Webcor Const	ruction LP Jeffre	ey Negley			
Co-Author:											
question. RFI: sequence of ir AWSS cap an RFI #U-0018.1	et AWSS cap issue has #U-0018 will remain op stallation regarding ins d PG&E trench. addresses scope. s MA-5, MA-8, U-1120,	en to track the tallation of the	SUGGESTION:			ng work required	gestion: Shael Smith (SFD) to abandon exis				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 882 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

Michael Smith (mechanical engineer with DPW Bureau of Engineering), please clarify the work involved to install the two AWSS caps on First & Howard and First & Mission St. Also produce a list of material required to complete the work. Provide drawing/ sketch if necessary to clarify scope of work.

U-0019 Street Light Location

From: Webcor Construction LP

Jeffrey Negley

To: Turner Construction Compan Michelle Smith

Co-Author:

REQUEST:

Please provide layout for the Street Lights shown to be relocated on sheets U-3201 and U-3202.

SUGGESTION:

11/10/2010

11/12/2010

12/02/2010

Potentially

Answered By: AECOM Technical Service Eric Zagol

ANSWER: Accept Suggestion:

Rev. 12/1/10

As dicussed during the site visit on 11/24/10 with Turner, Webcor, Trinet and AECOM to review SFPUC BLHP proposed street light markings, the proposed locations by SFPUC BLHP required a final review by BLHP due to conflicts with the Joint Trench and a FDC. SFPUC BHLP provided additional clarification on street light locations on 12/1/10.

Relocate existing street lights as shown to be relocated on U-3201 to the north side of Minna St. at STA 2+89.25 (center of pole) and at STA 4+12.03 (center of pole). Locate foundation, street light per SFDPW Standard Plans A-33,308 File No. 87,210. Provide guard post in accordance with SFDPW Standard Plan A-33,308 File No. 87,210 for the street light relocated to STA 2+89.25.

U-3201 shows two street lights to be relocated from the south side of Minna St. to the North Side of Minna St. Based on informal discussions with Jason Dunne (W/O) proposed street light locations have bee marked by Trinet along Minna St. at the locations shown on U-3201. TJPA's representative (Tuner) is scheduling SFPUC BLHP to inspect the proposed



response to RFI #U-0019. When the new

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

883 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

the work.

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
			locations as marked. Following BLHP, layout dimensions will be U-3202 shows one street light be relocated to an existing traff in U3202. Remove and salvage equipment as shown on U-330							
-0019.1 Light Pole at	Station 4+12.03: Reroute ex	isting conduit	Closed	12/21/2010	12/31/2010	02/02/2011	Potentiall			
From: Webcor Construction LP	David Hungerford	To: Turner Construction Co	mpan Kevin Chiu	Answered By	:Turner Constru	action Comp Miche	elle Smith			
Co-Author:										
REQUEST: Reference: RFI #U-0019, attached p 3201	SUGGESTION:		ANSWER: See RFI Resp	Accept Sugroonse #U-0019.2						
The streetlight at station 4+12.03 was response to RFI #U-0019. When the potholed, a number of existing utilities Per inspection with BLHP on 12/20/2 Kawano requests to re-route existing light pole ftg. location at STN. 4+12.0 be privately owned by 555 Mission S	new location was es were discovered. 2010, inspector Robert g conduits in the new 03. Utilities seem to			property owner the City right	ondition requirin er to relocate pri of epresentative to	g improvements by vately owned utility coordinate with p	ties in			
-0019.2 Light Pole at	Station 4+12.03: Reroute ex	isting conduit	Closed	12/21/2010	12/31/2010	02/02/2011	Potentiall	ly 🗌		
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Michelle Smith	Answered By	:Turner Constru	action Comp Miche	elle Smith			
Co-Author:										
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Question from RFI #U-0019.1						located by 555 M				
Reference: RFI #U-0019, attached p	icture and sheet U-			relocate irriga light pole bas	ition conduit to be location. Coord	ebcor/Obayashi to e out of the way o dinate with 555 M or Rob Edlenbos	of the lission			
The streetlight at station 4+12.03 wa	is laid out per the			(Julian Marsh 415-546-6036 or Rob Edlenbos 415- 546-6037) to have the irrigation controllers shut off for						



required to the foundation and light pole installation plan to

accommodate an overhead power feed?

Please review and advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

884 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
discovere 12/20/201 existing c location a	vas potholed, a number of exited. Per inspection with BLHP 10, inspector Robert Kawano onduits in the new light pole to at STN. 4+12.03. Utilities seen 5555 Mission St Please adv	on requests to re-route ftg. m to be privately			Unforeseen c property owne the City right	ondition requiring or to relocate privortions of way. TJPA Re	c Zagol - 12/27/20 g improvements by vately owned utility epresentative to er to relocate utility	by ties in	
0020	Street Lighting	Relocation Plan for Minna	C	Closed	11/15/2010	11/29/2010	11/18/2010	Potential	lly
From: We	bcor Construction LP	Jeffrey Negley	To: Turner Construction Compan Miche	elle Smith	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
o-Author:									
We have Engineer plan for the installation relocated lights are. Here is a install the Minna and side, per extending lights. Du would install the conduit for conduit for the series of	been informally advised that and BLHP are considering a ne street lights on Minna. This of temporary overhead powstreet light poles, until such a powered from underground be sequence as Trinet understate new light pole foundations of the relocate the light poles plans. BLHP would then instance of the new form a pole on 2nd St., to pring installation of the new form the splice box, and then later extraom the splice box to the PG8 on the plans.	the Design revised installation s would include the ver lines to feed the time as the new by Trinet. Inds it. Trinet would in the north side of s from the south all overhead cable, rovide power for the undations, Trinet in the pole to an end the underground	SUGGESTION:		temporary own Minna St. Th the attached stemporary own de-activate ext Minna St. whi street lights. The temporar can remain act in Minna Street street light du constructed, at have been co Since SFPUC existing street	t of the TJPA, SI erhead power for the temporary over sketch RFI-U002 erhead street light isting undergroule maintaining power to the two the temporary overhead power to the two the temporary overhead power to the two the temporary overhead power the two the temporary overhead power the two the temporary overhead power than the two th	FPUC BLHP prover four street lights rhead power is standard power is standard power allows Pund electric ductbower to the existing street of the existing street light reloced, new underground power connected by the power street light reloced to the existing street light reloced power are round power connected the power struction sequence truction sequence	on nown in G&E to anks in ng et lights eations and eections PG&E.	
under cor	arify the street lighting relocansideration. Also, if the BLHP	plan to feed the			Minna St. nov		to the other works bility and is not re- s in Minna St.		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

885 of 1053 11/05/2013

Date: Time:

10:53 AM Job: 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
J-0021	M.H. #501 and	existing utilties		Closed	11/17/2010	11/22/2010	12/02/2010	Potential	ly 🗌
From: Webco	r Construction LP	Jeffrey Negley	To: Turner Construction C	ompan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
During potho is to be instal existing utiliti Manhole #50 locations and	an/Drawing: U-3021 ling activities in 1st St. w led Trinet has encounter es which occupy the san 1. Please see the attach clarifications of these under the utilities, particularly U	red a number of ne intended space for ned sketch for tilities.			horizontal loca correlate to the clearly indicate	ation of the utilities e section sketche those utilities ponse to the US	J-3021 indicating les discovered the provided. Also that were not ma SA ticket for this	at , please	
Group #5 (ref	erence sketch) are inten by PG&E by November	ided to be			E. Zagol 11/24 In response to	4/10 o items listed ab	ove:		
on the drawir	, which appears to be ow gs as to be disconnecte e as to when this utility is	d and demolished.			energization o 11/24/10. In a 1.3 B and 024	of Minna St. will accordance with 100 3.5 B obtain	stated that the debe complete by Specification 02 in writing a Util al) that all conne	4100 ity	
included in the construct M.h utilities must to the owners how to process.	3 and #4 are unidentified e USA markings for this 1. #501 per the contract be removed or relocated thip of these utilities and ed. construction, we are required by 11/22/10 if possible.	area. In order to drawings these I. Please advise as provide direction on			2. As of 11/17 AT&T existing terminated wit Howard St. to the existing Arexiting duct from Terminal as slaccordance wo 024100 3.5 B Certificate (or	connected and /10 AT&T has s ducts along Fir the exception 400 Howard St. T&T duct subject m TMH-1887 to hown to be dem ith Specification obtain in writing	the utility is not a tated that conter st St. have been of the new duct property. Confir to of discursion is o Existing Transt olished on U-11: 1024100 1.3 B a a Utility Several onnections have	active. Ints in Ints in Introduce the the body Introduce the the body Introduce the the the body Introduce the the the the the the the the the th	
					AECOM's exis are not include direction from with Specifica course of actio Response Fol actions have to consideration	sting utility plansed in the USA m TJPA's represetion Section 00 on is to notify Uslow Up Messag been provided to	are not shown on a and as noted in narkings. Pendir entative in accord 08 10 the sugge SA and request a e". Other sugge o TJPA PMPC for ther direction press.	the RFI ag lance sted first a "No sted r	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

886 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
			E. Zagol 11/26/	/10			
			from Antonio C	han (PG&E) da	ail and email attac ated 11/24/10 conf tts in Minna St. an	nfirming	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 887 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
U-0022	SFWD crossir	gs at Minna St. and 1st		Closed	11/17/2010	12/01/2010	12/03/2010	Potentially	у
From: Webco	r Construction LP	Jeffrey Negley	To: Turner Construction Compan	Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Plan	an/Drawing: U-1002 and	attached PDF.					er confirmed exise to 100 First St.	ting	
which are not located at app from the mair 100 1st. ST. recorded in o the new wate Any additional result in a cost	markings have identified indicated on the drawing proximately STA 8+59 and in Minna St., North tow These laterals need to be refer to properly document line and the new joint to all work associated with the or schedule impact. Plain on how we should present the schedule impact on the schedule impact.	gs. These are and 9+06 and extend ard the building of the identified and and construct both rench.			services and I main connect secure; and It demolish exis 8+59 and 9+0 DO NOT provexisting latera Tap record ar Customer Set to the 100 Fir: First Street ap Meter boxes I Coordinate with Maintenance, Management TJPA's representations	hydrant laterals ions are made be existing water ting laterals ider 16. ride a connection is at approx. STATATATATATATATATATATATATATATATATATATA	et is constructed are connected; ry CDD, and pip r main is abandontified at approx. In from new water A 8+59 and 9+06 ation provided by icates two water neering the buildifeet south of Misst St. west sidew St. Building lins (CAC Real E 115.243.8803 thrim that laterals t. property from I	nain to es are oned, STA r main to 6. SFPUC laterals ing from ssion St. valk. Estate u the do not	
U-0023	MOP 1 for de-	energizing PG&E at Minna	St. between 1st and 2nd St	Closed	12/01/2010	12/02/2010	12/02/2010	Potentially	
From: Webco	r Construction LP	Jeffrey Negley	To: Turner Construction Compan	Michelle Smith	Answered By	:Turner Constru	action Comp Mich	nelle Smith	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
There is a live PG&E cable in conduit (see RFI U-0021) in First Street at intersection of Minna Street.					Form that W/	O and its subcor	nt. This will be the ntractors are to u the deenergizati	ise for	
Shutdown Te email on 11/2	tion 01.01.42 / AT2-1 Momplate, MOP 1 was created. The requesting signatures ification the conduit is defined.	ated and sent via res from TJPA and				r demolition of a		,	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

888 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

enclosed.

Also per spec section 02 41 00-3 (Vol. 20 Contract # CMCG 08-04 Existing Utilities) Item A - "Coordinate the shut off or disconnect of existing utilities affecting demolition work with the utility owner at least (7) seven calendar days prior to commencing with the work. The TJPA Representative will coordinate with the utility owner to open/close valves on piping, perform piping disconnects required and perform electric and telecommunication disconnects required. Do not proceed with this phase of work before getting the approval from the TJPA Representative".

Please provide approval.

In addition, per item B of spec section 02 41 00-3, "Prior to removal of any non-governmental (privately owned) ductbank, conduit or gas lines, obtain in writing a Utility Severance Certificate that all connections have been disconnected and the utility is not active".

Please provide a Utility Severance Certificate per item B above.

Sewer work on First Street is scheduled to start 12/1/10. Work cannot proceed until the conduit is de-energized.

Thank you.

U-0024 EBI demo dwgs and schedule for coordination Closed

12/03/2010

12/08/2010

Potentially

From: Webcor Construction LP

Jeffrey Negley

To: Turner Construction Compan Michelle Smith

Answered By: Turner Construction Comr Michelle Smith

Co-Author:

REQUEST:

Due to ongoing demolition work by EBI. W/O is requesting formal transmission of the most current demolition drawings and schedule.

These documents will be used for coordination efforts with

SUGGESTION:

ANSWER: Accept Suggestion:

12/02/2010

Per our utilities working session yesterday (12/7/10), the demolition drawings being used are the original set issued for construction, dated 1/14/10. C. Traylor will follow up to find out if/when Webcor/Obayashi was issued a copy of this set, or issue a new one for your



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 889 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

JOINI VE	NIURE		it Center	Project					
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
the RUP su	ubcontractors.					following supple since this set:	mental document	s have	
Please forv	vard to W/O as soon as pos	ssible.			- BSF drawin	ig package - issu	ed to W/O as Fie	ld	
Thank you.							ched to this RFI)		
					- Demolition attached to the		ngs and manual -	(copies	
-0025	• • •	ter Main in First St Investiga		Closed	12/03/2010	12/06/2010	12/08/2010	Potential	lly
	cor Construction LP	David Hungerford	To: Turner Construction Com	pan Michelle Smith	Answered B	y:AECOM Techr	nical Service Eric Z	Zagol	
Co-Author:									
	: Sheet U-1002 (dated 2010 I attached sketch	9-10-01 - RUP Field	SUGGESTION:		ANSWER: Contact USA contact inforr	•	gestion:	DD)	
along the c east end of confirm if the	encountered a capped 6" wenter of the First St. investi Minna St see attached she line is active or dead. We of trench to the required 8 stremoved.	gative trench at the ketch . Please e cannot excavate			visit to deterr		DD) and request f ve or abandoned)		
					40/00/0040	10/00/0010	10/00/0010	.	
-0026	Unidentified Fa	acility in First St Invest Tren David Hungerford		Closed	12/03/2010	12/06/2010	12/09/2010	Potential	шу
Co-Author:	coi Construction LP	David Hullgeriold	To: Turner Construction Com	pan Michelle Smith	Aliswered B	y-AECOM Techr	nical Service Eric Z	Lagoi	
REQUEST			SUGGESTION:		ANSWER:	Accept Sug	gostion:		
Reference: Order) See attach trench on ti investigatio encountere	Sheet U-1002 (dated 2010 ed plan and section through ne east side of First St Du n, an unidentified utility/fac d in the trench. Please ider ed 21'-7" from face of curb.	n the investigative ring Trinet's ility was ntify the highlighted	oodesmon.		Verizon (MFS in section hor either directly Verizon cond (MFS and M0 labeled as Veothers are un	S and MCI) cond wever unknown of below or adjace luits. How were the CI) identified? Die erizon (MCI and laknown? Please	uits appear to be conduits are indicated to the identifier the Verizon conduitd Verizon confirm MFS) are theirs are clarify. As per Derand MCI) structure	ated d its those nd the molition	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

890 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
and advise	e if it needs to be cut and ca	pped.				nporary bridge is its are relocate	s constructed and d.	I	
J-0027	Unidentified Fa	acility in First St Invest Tre	nch - 18'-7 from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	ly 🖂
From: Web	ocor Construction LP	David Hungerford	To: Turner Construction Co	ompan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric 2		,
Co-Author:		· ·			•			9	
REQUEST Reference	T: e: Sheet U-1002 (dated 2010	-10-01 - RUP Field	SUGGESTION:		ANSWER: - Confirm the	Accept Sug	gestion:	ed by a	
trench on tinvestigation encounteroutility, loca	hed plan and section through the east side of First St Dul ion, an unidentified utility/faci red in the trench. Please iden atted 18'-7" from face of curb,	ring Trinet's ility was utify the highlighted on the attachment			- Confirm that procedures (F Follow-Up) we utility including information pr	ere followed in a g notifying utilition ovided appears	onse Follow-Up d Third No Respo n effort to identify es. Investigation to be consistent	the	
and advise	e if it needs to be cut and ca	ppea.					y. ed via USA proce:	ss to	
J-0028	Unidentified Fa	acility in First St Invest Tre	nch - 14'-7 from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	ly
From: Web	ocor Construction LP	David Hungerford	To: Turner Construction Co	ompan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUES1	Т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Order)	e: Sheet U-1002 (dated 2010	-10-01 - RUP Field					ility was not mark	ed by	
trench on tinvestigation encounteroutility, loca	hed plan and section through the east side of First St Dur ion, an unidentified utility/faci red in the trench. Please iden ated 14'-7" from face of curb, e if it needs to be cut and ca	ring Trinet's ility was utify the highlighted on the attachment			procedures (F Follow-Up) we utility including information pr	ere followed in a	d Third No Respons effort to identify es. Investigation to be consistent	the	
					- Confirm PG8 mark undergro		ed via USA proce	ss to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 891 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumb	per	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-002	9	Unidentified Facilit	ty in First St Invest Tren	ch - 13'-4" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	lly
	From: Webcor Constru	ction LP	David Hungerford	To: Turner Construction Co	mpan Michelle Smith	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	Reference: Sheet U-1 Order)	002 (dated 2010-10-	01 - RUP Field				'unidentified" uti sponse to USA	lity was not mar ticket.	ked by	
	See attached plan and trench on the east side investigation, an unide encountered in the tre utility, located 13'-4" fr and advise if it needs	e of First St During entified utility/facility on ench. Please identify om face of curb, on	Trinet's was the highlighted the attachment			followed in an		procedures were the utility includ nse.		
J-003	0	Unidentified Facilit	ty in First St Invest Tren	ch - 9'-10" from Curb	Closed	12/03/2010	12/06/2010	12/10/2010	Potential	lly
	From: Webcor Constru	ction LP	David Hungerford	To: Turner Construction Co	mpan Michelle Smith	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	Reference: Sheet U-10 Order) See attached plan and trench on the east side investigation, an unide encountered in the tre utility, located 9'-10" frand advise if it needs	I section through the e of First St During entified utility/facility nch. Please identify om face of curb, on	investigative Trinet's was the highlighted the attachment			in section how either directly Verizon condu (MFS and MC labeled as Ve others are unk Plans, protect place until ten	ever unknown obelow or adjace lits. How were the literation of literation of the literation of liter	uits appear to be conduits are indicent to the identificate Verizon conditional Verizon confirm (MFS) are theirs a clarify. As per Deand MCI) structures constructed and definitional defin	cated ed uits n those and the emolition res in	
J-003	1	Unidentified Facilit	ty in First St Invest Tren	ch - 7'-2" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	lly
	From: Webcor Constru	ction LP	David Hungerford	To: Turner Construction Co	mpan Michelle Smith	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-A	uthor:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	Reference: Sheet U-1 Order)	,						ty yet highlighted SS", please clar		
	See attached plan and trench on the east side investigation, an unide encountered in the tre utility, located 7'-2" fro	e of First St During entified utility/facility on nch. Please identify	Trinet's was the highlighted							



utility, located 3'-2" from face of curb, on the attachment

and advise if it needs to be cut and capped.

Webcor/Obayashi Joint Venture

Webeen ebayasın senit ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 892 of 1053 11/05/2013

Time: Job:

information provided appears to be consistent with

plans indicating a AT&Y utility at this location.

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
and advise if	it needs to be cut and ca	pped.							
J-0031.1	24in Conovete	Wall in First St. Invest Tren	oh 7tt 2in trom FOC	Closed	12/23/2010	01/02/2011	12/29/2010	Detential	
	or Construction LP	David Hungerford	_					Potential	ту
Co-Author:	or Construction LP	David Hungenord	To: Turner Construction Co	mpan Kevin Chiu	Allsweled by.	AECOM Techr	ical Service Eric 2	agoi	
sketches, an USA North See the high through the i St.from Stn. Trinet reques concrete wal 10" cover the contract plan Trinet has th as soon as p	Sheet U-1007, attached sed attached documentation dighted wall on attached provestigative trench on the 10+00 to 9+70. Per note sets direction regarding the I found 7'-2" from the East was encountered but notes. It is plated but would like to cossible. An expedited resellirection on how to proceed	plan and section E East side of First 4 on sheet U-1007 I unidentified 24" It face of curb and ot indicated on the backfill the trench	SUGGESTION:		Transit Center	Project (NIP) washoring wall and iric Zagol	gestion: be demolished b rithin the area imp I mass excavation	acted	
J-0032	Unidentified F	acility in First St Invest Trer	nch - 3'-2" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potential	lv 🖂
	or Construction LP	David Hungerford	To: Turner Construction Co				ical Service Eric 2		.,
Co-Author:		Ç			•			9	
Order) See attached trench on the investigation	Sheet U-1002 (dated 2010 d plan and section through e east side of First St Du , an unidentified utility/fac in the trench. Please ider	n the investigative ring Trinet's ility was	SUGGESTION:		utility in respor - Confirm that procedures (Fi Follow-Up) wer	use to USA tick USA No Respo rst, Second and re followed in a	lity was not mark et.	nse	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

893 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
						&T was contacte ound facilities.	ed via USA proces	ss to	
J-0032.1	Unidentified 1	8" Concrete Wall in First St	Invest Trench - 3ft-2in from Cu	rb Closed	12/23/2010	01/02/2011	12/29/2010	Potentia	llv 🗆
	Construction LP	David Hungerford	To: Turner Construction Cor				nical Service Eric		,
Co-Author:		g	To Tumor Conditional Con	mpan Revin ema	7	7-7 (E C C IVI T C C III	illoar Corviot Ello I	Lugoi	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sh	neet U-1007, attached s I attached documentatio		000000000000000000000000000000000000000		Unknown 18" Transit Cente	concrete wall to r Project (NIP) v	be demolished by within the area implied mass excavation	pacted	
through the in St.from Statio 1007, Trinet ro 18" concrete v	ghted item on attached vestigative trench on the in 10+00 to 9+70. Per neequests direction for the wall found 3'-2" from the ered that was encounted to plans.	e East side of First ote 4 on sheet U- e demolition of the East face of curb			Answered by AECOM 12/2				
as soon as po	s plated but would like to ssible. An expedited re- rection on how to proced	sponse is requested							
J-0033	Unidentified F	Facility in First St Invest Tre	nch - 5'-8" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentia	lly 🗌
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Cor	mpan Michelle Smith	Answered By	:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:								-	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sh Order)	neet U-1002 (dated 201	0-10-01 - RUP Field			- Confirm the the utility in re	"unidentified" ut esponse to USA	ility was not mark ticket.	ed by	
trench on Firs investigation, encountered i utility, located	plan and section throug it St. at Minna St Durin an unidentified utility/fac n the trench. Please ide 5'-8" from face of curb, it needs to be cut and ca	g Trinet's cility was entify the highlighted on the attachment			procedures (Follow-Up) we utility includin information p	ere followed in a g notifying utilitie	d Third No Respo in effort to identify es. Investigation to be consistent	the	



below finish grade. The extent of the basement is

unknown, but assumed to run the length of the "100 First St" property. The basement structure is in conflict with the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

width and depth per Detail 7 on U-5101. Construct

on Sheet U-5101.

hydrant lateral, riser and hydrant as shown in Detail 2

894 of 1053 11/05/2013

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee			
					 Confirm SFMTA was contacted via USA process to mark traffic signals and street light underground facilities. 							
J-0033.1	Unidentified 2	in Pipe in First St Invest Tre	ench - 5ft-8in from Curb	Closed	12/23/2010	01/02/2011	12/29/2010	Potential	lly			
From: Webco	r Construction LP	David Hungerford	To: Turner Construction C	ompan Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric	Zagol				
Co-Author:												
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:					
	heet U-1007, attached s d attached documentatio				shown in the F	sed 2" pipe is Tı	raffic Signal cond					
trench on the 9+70. Per not direction for a 8" from the E	plan and section throug East side of First St.fror te 4 on sheet U-1007, Tr lemolition of the unidenti ast face of curb and 15" but not indicated on the	m Station 10+00 to rinet requests ified 2" pipe found 5'- covered that was			Answered by I AECOM 12/29	•						
as soon as po	s plated but would like to ossible. An expedited re- rection on how to proces	sponse is requested										
J-0034	Station 9+10 N	New Hydrant Conflict with S	idewalk Basement	Closed	12/09/2010	12/20/2010	12/13/2010	Potential	lly			
	r Construction LP	David Hungerford	To: Turner Construction C	ompan Kevin Chiu			nical Service Eric		,			
Co-Author:		-			•							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:					
	heet U-3109 (dated 2010	0-09-29)			_		s to be an aband	oned				
North side of St." was reve	s potholing for the Joint Minna St, a basemenet aled. The basement wall ce of curb and extends to	for building "100 First I is located just			that existed pr Approximate v face is approx	ior to the currer vidth of wall is 2 imately at the fa	ne 4 story brick b nt 100 First St. bu feet and the out ace of curb. Neat nch. Required tre	iilding. side ly cut				



Please provide the depth of CB#603 on Freemont Street. To expedite the work in the field, we require an answer by

12/13/10.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 895 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
proposed new	fire hydrant installation	at Station 9+10.							
Please provide	layout for the fire hydra	ant.							
0035	Installlation De	epth of Storm Drain New Ca	tch Basins	Closed	12/09/2010	12/13/2010	12/13/2010	Potential	ly 🗌
From: Webcor	Construction LP	David Hungerford	To: Turner Construction C	ompan Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric	Zagol	- 🗀
o-Author:				·	·			Ü	
detail from Dep Engineering Trinet is conce the new catch Departent guid traps for the m maintenence c trap during flocable to reach the prelease the flow plugged), or roculvert is plugginstallation guidelines, Trir design engineer Hydraulics Department. Hy should be instagrade located to cross under direct run to the 1/2 degrees where the consequence of the new catching transport of the ne	eet U-3023, U-3033 (Department of Public Works artment of Public Works artment of Public Works artment of Public Works artment does not comply elines, specifically regale aintenance department rews need to have reaching emergencies. DPN trap to, either remove the total to the culvert pipe (if the total total the culvert line through and). To get some clarificate that informally talked ers at the SF Bureau of the eadvised Trinet that need with center of trappetween 3 and 4 feet be existing utilities that are edischarge manhole. Be here possible as required used we should limit the	as Buearu of In depth for many of with SFDPW Sewer rding access to the Individual of the Individual o	SUGGESTION:		limited vertica acceptable. S maintenance piron trap is mobelow ground Please submit information indutilities along basin to manhengineered ar	bends in the 10 FDPW also corperspective the re accessible assurface. subsurface util cluding top, bott he 10-inch culv ole such that the d the catch bas	FDPW Hydraulic D-inch culvert run Infirmed that from clean out on the t a depth of 3 to 4	are a cast 4 feet xisting m catch can be	



North

See the attached section through the investigative trench

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and

specification 020630 section 4.1 POTHOLING AND

896 of 1053 11/05/2013

Time:

10:53 AM 30100

				<u> </u>		<u> </u>			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0035.1	Fremont Stree	et Storm Drain from CB#603	to (E) Manhole	Closed	12/23/2010	01/02/2011	12/28/2010	Potential	ly 🗌
From: Webcor	Construction LP	Jason Dunne	To: Turner Construction Comp	oan Kevin Chiu	Answered By	y:AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
0035	t U-3023, U-3033 (detainse to RFI #U-0035, find	,			(W/O) and Vicalignment for	ite visit on 12/28 ctor (Trinet) to re 10-inch culvert	//10 with Jason Deview exposed truit was confirmed a new temporary	ench that the	
review a drawi catch basin (C	ing showing the propose B# 603) installation and anhole on Fremont St.	ed alignment for the			water and exi separation.	sting 8-inch wat	er main with ade	quate	
	n this proposed alignmeer solution.	ent is acceptable or			acceptable.	snown in the at	tached drawing is	5	
provide another solution. ***Please confirm this alignment by 12/27/10 if possible.					catch basin is 1123 Demolit with PG&E to	s to be abandong ion and Sequeng confirm 3" HP (ad and removed pasin and	nediately west of ed by PG&E per ce item 2. Coord Gas is inactive ar to facilitate const	Sheet U- inate nd can	
					Answered by AECOM 12/2	•			

						Fremont Street	f new temporary in the section d		
					Answered by AECOM 12/2				
-0036	Unidentified 6	in Pipe Encountered in Frei	mont St 7ft-9in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potential	lly 🗌
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Comp	oan Kevin Chiu	Answered By	y:AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	eet U-1008, attached s				Unknown unf		utility condition.		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

897 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

at station 4+40 on Fremont St. Per note 4 on sheet U-1008. Trinet hereby requests that Webcor "notify TJPA" of the unidentified 6" steel pipe at 7'-9" from the east face of curb and 3'-4" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 6" steel pipe is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.

U-0037 Unidentified 2in Facility Encountered in Minna St. - 7in from FOC

David Hungerford

Closed 12/15/2010 12/25/2010

Answered By: AECOM Technical Service Eric Zagol

12/30/2010

Potentially

Co-Author:

REQUEST:

From: Webcor Construction LP

SUGGESTION:

To: Turner Construction Compan Kevin Chiu

Reference: Sheet U-1007, attached sketch of section from Trinet RFI 16 and Documentation of notification to USA North

ANSWER: Accept Suggestion:

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Woboon obayasın olmik Ventaro

Page: Date: 898 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U - 1007, Trinet "hereby requests that Webcor "notify TJPA" of the unidentified 2" steel line found 7" from south face of curb and 2'-2" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

U-0038 Unidentified 4" Facility Encountered in Minna St. - 7ft 4in from FOC

Closed

12/25/2010

12/15/2010

12/16/2010

Potentially

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Kevin Chiu

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

Reference: Sheet U-1007, attached sketch of section from Trinet RFI 17 and documentation of notifications to USA North

See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U - 1007, Trinet "hereby requests that Webcor "notify TJPA"

SUGGESTION:

ANSWER: Accept Suggestion:

Confirmed that the existing 4" steel line is an abandoned PG&E conduit connected to the abandoned PG&E manhole 1354 abandoned and deenergized as part of PG&E's Minna Street Stage I deenergization work. Demolish and remove conduit and contents following confirmation of abandonment by PG&E.



Trinet RFI 19 and documentation of notifications to USA

North

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

abandoned PG&E manhole 1354. Confirm that the

existing 4" steel is an abandoned PG&E conduit connected to the abandoned PG&E manhole 1354

Page: Date:

899 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
of curb and	entified 4" steel line found 2'-11" to cover. Per the sa direction on the demolition	ame note, Trinet							
as soon as	his plated but would like to possible. An expedited re- direction on how to proced	sponse is requested							
-0039	Unidentified 4	" Facility Encountered in M	inna St 6ft 7in from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potential	ly
From: Webo	or Construction LP	David Hungerford	To: Turner Construction Comp	oan Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Sheet U-1007, attached s 8 and documentation of n				PG&E condui manhole 1354	he existing 4" st t connected to the data abandoned and	eel line is an aba he abandoned Po d de-energized a de-energization	G&E is part of	
at station 2 1007, Trine of the unide of curb and	ached section through the + 29.68 on Minna St. Per t "hereby requests that Wentified 4" steel line found 2'-3" to cover. Per the sar direction on the demolition	note 4 on sheet U - ebcor "notify TJPA" 6'-7" from north face ne note, Trinet			Demolish and		t and contents fo		
as soon as	his plated but would like to possible. An expedited redirection on how to proced	sponse is requested							
-0040	Unidentified 4	in Facility Encountered in N	Minna St 5ft from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potential	lv 🗆
From: Webo	or Construction LP	David Hungerford	To: Turner Construction Comp	oan Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric		<i>,</i>
Co-Author:		-			·			J	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Sheet U-1007, attached s	ketch of section from			_	. •	ectly in line with		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 900 of 1053 11/05/2013

Date: Time: Job:

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if

10:53 AM 30100

ımber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
See the attached section through the invested station 2 + 29.68 on Minna St. Per not 1007, Trinet "hereby requests that Webcof the unidentified 4" steel line found 5' frourb and 2'-10" to cover. Per the same requests "direction on the demolition" of	e 4 on sheet U- or "notify TJPA" om north face of ote, Trinet			Street Stage I	de-energizatior it and contents	as part of PG&E n work. Demolish following confirm	and	
Trinet has this plated but would like to ba as soon as possible. An expedited responsith official direction on how to proceed v 12/16/10.	nse is requested							
0041 Unidentified 1in F	Facility Encountered in M	linna St 2ft 9in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentia	ily
From: Webcor Construction LP	David Hungerford	To: Turner Construction Comp	an Kevin Chiu	Answered By	:AECOM Techi	nical Service Eric	Zagol	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sheet U-1007, attached sketo				Unknown unfo	reseen existing	utility condition.		
Trinet RFI 20 and documentation of notifi North See the attached section through the invest station 2 + 29.68 on Minna St. Per not 1007, Trinet "hereby requests that Webcof the unidentified 1" steel line found 2' 9 of curb and 18" to cover. Per the same requests "direction on the demolition" of	estigative trench e 4 on sheet U- or "notify TJPA" ' from north face ote, Trinet			EXISTING UT specification 0 TRENCHING proceed with t interfering utili procedures or	ILITIES NOT IN 20630 section OPERATIONS he following in oties that are unlother non desti	ion 00 08 10 sect NDICATED and 4.1 POTHOLING paragraph C, ple order to identify a known after all spructive methods ave been exhaust	AND ase II ecified	
Trinet has this plated but would like to ba as soon as possible. An expedited respo- with official direction on how to proceed v 12/16/10.	nse is requested			investigation v nondestructive nearest vault, owner and cor pipe alignmen and provide in content is still identify conter	ia electromagne methods) to trepull box, manhotent. If noncore to expose coaformation on counknown, tap e	perform subsurfa etic detection (or face utility back to obe or valve to ide aductive, excavate ting and a joint. beating and joint ty each line in order og status of utility	other ntify e along nspect pe. If to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

901 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed			
					telecommunication cables are operational. Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.							
J-0042	Unidentified 6i	n Facility Encountered in N	linna St 6in from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potential	lly			
From: Webcor C	Construction LP	David Hungerford	To: Turner Construction Com	pan Kevin Chiu	Answered B	y: AECOM Techr	nical Service Eric Z	Zagol				
Trinet RFI 21 ar North See the attache at station 2 + 29 1007, Trinet "he of the unidentific curb and 36" to "direction on the Trinet has this pas soon as poss	et U-1007, attached shind documentation of not ad section through the incept of the section through the incept of the section of the section of this line of the section on how to proceed the document of the section on how to proceed the document of the section on how to proceed the document of the section on how to proceed the document of the section of the sectio	nvestigative trench note 4 on sheet U- bcor "notify TJPA" " from north face of ote, Trinet requests e. backfill the trench ponse is requested	SUGGESTION:		an abandone abaondoned	d PG&E 6" cast	" steel line identification gas main. Do and contents as					
J-0043 From: Webcor C	•	St. 5+70 on Minna Mario Saldana Sr.	To: Turner Construction Com	Closed pan Kevin Chiu	12/13/2010 Answered B	12/23/2010 y :AECOM Techr	12/14/2010 nical Servic∉Eric 2	Potential Zagol	ly			
Co-Author: REQUEST: INFORMATION NEEDED See the attached picture of the proposed fire hydrant location as indicated by drawings on Minna St. at Stn. 5+70. This location is in conflict with an existing driveway			SUGGESTION:		the suggeste		the existing street e construct the hy					



Page: Date:

Job:

902 of 1053 11/05/2013 10:53 AM

30100

Date: Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
apron not shown on U-2008. Eric Zagol fi this issue in the field currently being instal oinstall could be as a provide direction by We propose to move	rom AECOM is award. NOTE - Due to the lled, the location for early as Tuesday the 12-14-10 if possible.	8" water line the "T" section a 14th. Please							
Stn. 5+64. Please a	dvise.		Minne Ct. 46 from EQC	Classed	40/45/0040	40/05/0040	40/00/0040	Detential	
-0044 From: Webcor Const		David Hungerford	n Minna St 1ft from FOC To: Turner Construction Com	Closed	12/15/2010 Answered By	12/25/2010	12/20/2010 nical Service Eric 2	Potential	у
Co-Author:	ruction Li	David Flurigeriord	10. Turner Construction Com	pari Keviii Ciliu	Allowered By	ALCOM TECH	TIICAI SEIVICE LIIC 2	-agui	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Sheet U- Trinet RFI 22 and do North	,				Demolish and construct Joir	I remove structu	ure as required to		
See the attached see at station 2 + 29.68 of 1007, Trinet hereby the unidentified 4' x of from north face of cuencountered in the enote, Trinet requests structure.	on Minna St. Per not requests that Webco 6.5' wall (bottom was urb and 18" to cover east wall of the trenc	te 4 on sheet U- or "notify TJPA" of s not found) at 1' that Trinet h. Per the same							
Trinet has this plated as soon as possible. with official direction 12/16/10.	An expedited response	nse is requested							
-0045	Unidentified Con	crete Wall Encountered in	n Minna St in line with FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potential	

To: Turner Construction Compan Kevin Chiu

Co-Author:

From: Webcor Construction LP

REQUEST: SUGGESTION:

David Hungerford

ANSWER:

Accept Suggestion:

Answered By: AECOM Technical Service Eric Zagol



Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by

12/16/10.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 903 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

			<u> </u>		<u> </u>			
ımber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Trinet RFI 23 and of North See the attached s at station 2 + 29.68 1007, Trinet hereby the unidentified coiline with the north fencountered in the requests "direction"	J-1007, attached sketch of section from documentation of notifications to USA ection through the investigative trench as on Minna St. Per note 4 on sheet U-y requests that Webcor "notify TJPA" of nocrete wall (bottom was not found) in face of curb and 30" to cover that Trinet ir trenching. Per the same note, Trinet on the demolition" of this structure. effect Trinet's ability to build the			1. In reference Representation exposed is a with concrete St. building. 2. In reference build the cate accordance was reference as reference strength.	ve to confirm than old sub sidewale during constructed to "this wall machbasin at Station	d concrete wall, To t the concrete wa lk basement back tion of the 101 Se ay effect Trinet's a n 2+13", pothole in documents at cat	I filled cond bility to	
as soon as possibl	on 2+13. ed but would like to backfill the trench e. An expedited response is requested in on how to proceed with this facility by			Answered by AECOM 12/2				
0046	Unidentified Concrete Wall Encountered		Closed	12/15/2010	12/25/2010	12/29/2010	Potential	ly
From: Webcor Conso-Author:	struction LP David Hungerford	To: Turner Construction Compa	an Kevin Chiu	Answered B	y: AECOM Techr	nical Service Eric 2	agol	
REQUEST: Reference: Sheet I Trinet RFI 24 and o North See the attached s at station 4+40 on 1008, Trinet hereb the unidentified coi not found) at the ex Trinet encountered indicated on the co	J-1008, attached sketch of section from documentation of notifications to USA ection through the investigative trench Fremont St. Per note 4 on sheet U-y requests that Webcor "notify TJPA" of norete structure wall (the bottom was ast face of curb and 18" to cover that I in their trenching which was not untract plan. Per the same note, Trinet on on the demolition" of this structure.	SUGGESTION:		Center Proje	ct (NIP) within thing wall and mass	demolished by Tr e area impacted b		



Reference: Sheet U-1008, attached sketch of section from

Trinet RFI 26 and documentation of notifications to USA

North

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3

904 of 1053 11/05/2013

Date: Time:

: 10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0047	Unidentified 3	in Pipe Encountered in Frei	mont St 5ft-8in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentia	lly
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Trinet RFI 25 an North See the attached at station 4+40 of 1008, Trinet here the unidentified 3 curb and 4'-3" to trenching which Per the same no demolition" of the Trinet has this plas soon as poss	et U-1008, attached sid documentation of not describe through the on Fremont St. Per not eby requests that We 3"steel pipe at 5'-8" for cover that Trinet end was not indicated on the total trinet requests "cover that Trinet end was not indicated on the trinet requests "cover that Trinet en	investigative trench tote 4 on sheet U- bcor "notify TJPA" of om the east face of countered in their the contract plan. direction on the			In accordance EXISTING UT specification 0 TRENCHING proceed with t interfering utili procedures or proposed by the Pipe: If conduinvestigation vanondestructive nearest vault, owner and corpipe alignmen and provide in content is still identify conter abandoned or Conduit and dicharged electroperforms NET	with specificati ILITIES NOT IN 120630 section 4 OPERATIONS he following in other non destrate that are unlother non destrate contractor has active material, place electromagne methods) to trapull box, manhotent. If noncont to expose coaformation on counknown, tap entra and operation operational.)	4.1 POTHOLING paragraph C, plead productive methods are been exhaust perform subsurfacetic detection (or acceutility back to ble or valve to ide iductive, excavate ting and a joint. I leating and joint typach line in order in g status of utility is a g a contractor that etermine if	AND ase I ecified ed: ce other ntify e along nspect oe. If	
					and contents, energized, cut	and determined	tified including ovaling ovalinactive or de- at the demolition a drawings.	vner	
J-0048	Unidentified 3	in Pipe Encountered in Frei	mont St 6ft-10in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentia	Ily 🔲
From: Webcor Co	onstruction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	_
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

905 of 1053 11/05/2013

Time: Job:

Coct

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	COSt	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
		•					

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 3" steel pipe at 6'-10" from the east face of curb and 18" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Data

Data

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

U-0049	Unidentified 1in Pipe	e Encountered in Fremont	St 6ft-10in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	_
Fram. Wahaar Canatr	unation I D	Dovid Llungarford	Tot. Toward Constant Con Constant Karl	01-1-1	Anguared Dur	FOOM To do '	-10	1	

From: Webcor Construction LF

David Hungerford

To: Turner Construction Compan Kevin Chiu

SUGGESTION:

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 27 and documentation of notifications to USA

North

REQUEST:

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-

ANSWER: **Accept Suggestion:** Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 **EXISTING UTILITIES NOT INDICATED and** specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C. please



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 906 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 1" steel pipe at 6'-10" from the east face of curb and 4'-3" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

U-0050	Lower Sewer Later	als on Minna	Closed	12/15/2010	12/25/2010	01/11/2011	Potentially
From: Webcor Const	ruction LP	Mario Saldana Sr.	To: Turner Construction Compan Kevin Chiu	Answered By	:AECOM Techn	ical Service Eric	Zagol

SUGGESTION:

Co-Author:

REQUEST:

Reference: Sheets U-3007 & 3008, and Trinet RFI 41

Two of the active sewer service laterals potholed on Minna St.are lower than the new sewer main and will not drain. The details of each issue are as follows:

1. Station 5+05 - Service for #2 Shaw Alley

1. Station 5+05 - Service for #2 Shaw Alley
Top of pipe grade @ FOC for the 6" VCP sewer lateral is
11.37 . The invert elevation is approximately 10.8. The
invert elevation of the new 24" sewer main @ Station 5+05

ANSWER: Accept Suggestion:

1/11/11
See revised Sewer Plan and Elevation Phase I Plans

titled "Revisions - Minna Street 12/27/10" for revisions to sewer main elevations.

12/27/10



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

907 of 1053 11/05/2013

Date: Time: Job:

: 10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

is approximately 11.4

2. Station 2+10 - Service for Anchor & Hope Restaurant Top of pipe grade @ FOC for the 6" VCP sewer lateral is 13.51. The invert elevation is approximately 12.94. The invert of the new 18" VCP sewer main @ Station 2+10 is approximately 13.4.

Please review these issues and advise. An expedited response is requested by 12/16/10.

Adjust new sewer main in Minna Street to accommodate existing laterals as shown in the "Minna Street Revisions" sheet revision forthcoming addressing both this RFI and RFI U-0017.

U-0051

Unidentified 6in x 6in Concrete Duct Encountered in Fremont St. - 10ft-1in from FC Closed

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Kevin Chiu

Co-Author:

REQUEST:

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 30 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 6in x 6in concrete duct at 10'-1" from the east face of curb and 5' to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

SUGGESTION:

ANSWER: Accept Suggestion:

12/25/2010

Answered By: AECOM Technical Service Eric Zagol

01/01/2011

Potentially

12/15/2010

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

908 of 1053 11/05/2013 10:53 AM

Time: Job: 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					Once the utilit and contents,	and determined	e operational. ntified including oven de- at the demolition	vner	
				demarcation I Note, 6"x6" co PG&E's exca	ine shown in the onc. duct is in the vated manhole		with		
J-0052 From: Webcor (in Pipe Encountered in Fre	emont St 11ft-6in from FOC To: Turner Construction Comp	Closed an Kevin Chiu	12/15/2010 Answered By	12/25/2010 /: AECOM Techi	12/20/2010 nical Servic: Eric 2	Potentia Zagol	lly
Co-Author:								•	
Trinet RFI 32 at North See the attache at station 4+40 1008, Trinet he the unidentified of curb and 3'-6 trenching which Per the same n demolition" of the North	REQUEST: SUGGESTION: Reference: Sheet U-1008, attached sketch of section from Trinet RFI 32 and documentation of notifications to USA					d PG&E 12" cas firmation from F	2" steel line ident st iron gas main. PG&E, cut and capiron gas main at the)	
as soon as pos	plated but would like to listed. An expedited respection on how to proceed	oonse is requested							
J-0053	Unidentified 3ir	n Pipe Encountered in Frer	nont St 10ft-3in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentia	ily 🗌
From: Webcor C	Construction LP	David Hungerford	To: Turner Construction Comp	an Kevin Chiu	Answered By	:AECOM Techi	nical Service Eric 2	Zagol	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

909 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee

REQUEST:

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 31 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 3" steel pipe at 10'-3" from the east face of curb and 3'-10" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

SUGGESTION:

ANSWER: **Accept Suggestion:** Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 3" steel pipe is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.

U-0054 Unidentified Pair of 4in Pipes Encountered in Fremont St. - 22ft from FOC Closed

12/25/2010

12/30/2010

Potentially

Answered By: AECOM Technical Service Eric Zagol

12/15/2010



REQUEST:

North

Reference: Sheet U-1008, attached sketch of section from

Trinet RFI 34 and documentation of notifications to USA

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

910 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion: Confirm with PG&E that the 10" steel line identified is

an abandoned PG&E 10" cast iron gas main.

Following confirmation from PG&E, cut and cap

umber <u>Subject</u>		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Reference: Sheet U-1008, attached sketch of section from Trinet RFI 33 and documentation of notifications to USA North See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified pair of 4" steel pipes at 22' from the west face of curb and 2'-7" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line. Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.			In accordance EXISTING UT specification (TRENCHING proceed with tinterfering utiliprocedures or proposed by the Pipe: If condainvestigation was nondestructive nearest vault, owner and conpipe alignment and provide in content is still identify contential abandoned or Conduit and contents and contents, energized, cui	e with specificate ILITIES NOT II D20630 section OPERATIONS the following in ities that are untroduced in the contractor he contractor he contractor he contractor he pull box, manhintent. If noncontraction on contraction contrac	g utility condition. tion 00 08 10 section NDICATED and 4.1 POTHOLING A paragraph C, plea order to identify all sknown after all special tructive methods ave been exhauste perform subsurface netic detection (or corrace utility back to lole or valve to iden nductive, excavate ating and a joint. In coating and joint type each line in order to ng status of utility (seemine if utility is a g a contractor that letermine if leter operational. Intified including ow d inactive or de- leter the demolition	AND see ecified ed: e ether http://example.com/dispect/e.e.lf.com/disp	
-0055 Unidentified 10in Pipe Encounter From: Webcor Construction LP David Hunge Co-Author:	ed in Fremont St 14ft 3in from FOC rford To: Turner Construction Co	Closed Impan Kevin Chiu	12/15/2010 Answered By	12/25/2010 / :AECOM Tech	12/20/2010 inical Service Eric Z	Potential agol	ly

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

911 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

				Sody ITalis		1 10,000			
ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
at station 4- 1008, Trine the unident of curb and trenching w Per the san demolition" Trinet has t as soon as with official	ached section through the 1+40 on Fremont St. Per no t hereby requests that Wel ified 10" steel pipe at 14'-3 2'-11" to cover that Trinet thich was not indicated on the note, Trinet requests "c of this line. his plated but would like to possible. An expedited residirection on how to procee	te 4 on sheet U- poor "notify TJPA" of " from the west face encountered in their the contract plan. direction on the backfill the trench eponse is requested				doned 10" cast i line shown on U-	ron gas main at th 1123.	he	
12/16/10.									
0056	Unidentified 4i	in Pipe Encountered in Fre	mont St 12ft 3in from FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potentia	lly
From: Webo	cor Construction LP	David Hungerford	To: Turner Construction Compa	an Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric	Zagol	
o-Author:									
REQUEST:	1		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Sheet U-1008, attached slab and documentation of no				conduit as sho	own in the Plans	JC BLHP street li s. Once confirme the Demolition Pl	ed	
at station 4- 1008, Trine the unidenti of curb and trenching w	ached section through the 1+40 on Fremont St. Per no the thereby requests that Welfifed 4" steel pipe at 12'-3" 2' to cover that Trinet ence thich was not indicated on the note, Trinet requests "cof this line.	te 4 on sheet U- ocor "notify TJPA" of from the west face ountered in their the contract plan.							

Unidentified 2.5in Pipes Encountered in Fremont St. - 4ft 10in from FOC From: Webcor Construction LP

12/16/10.

U-0057

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by

David Hungerford

To: Turner Construction Compan Kevin Chiu

Closed

12/15/2010

12/25/2010

12/30/2010

Potentially

Answered By: AECOM Technical Service Eric Zagol



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

912 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject	Status	Created	Required	Answered	Impact	Proceed
						COSt	_
			Date	Date	Date	Cost	

Co-Author:

REQUEST:

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 36 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified pair of 2.5" steel pipes at 4'-10" from the west face of curb and 21" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

SUGGESTION:

ANSWER: **Accept Suggestion:**

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 2-2.5" steel pipes are in the same alignment as PG&E's excavated manhole 1674. Coordinate with PG&E to see if PG&E has demolished this line.

U-0058 Unidentified 4in Pipe Encountered in Fremont St. - 2ft from FOC Closed

12/25/2010

12/15/2010

12/29/2010

Potentially

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Kevin Chiu

Answered By: AECOM Technical Service Eric Zagol

Co-Author:



12/16/10.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 913 of 1053 11/05/2013

Time:

10:53 AM 30100

umber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
	See the attached section through the investigative trench				Confirm 4" steel pipe is SFPUC BLHP street light conduit as shown in the Plans. Once confirmed demolish in accordance with the Demolition Plans.					
at station 4+4 1008, Trinet h the unidentific curb and 15" trenching whic Per the same demolition" of Trinet has this as soon as po	0 on Fremont St. Per no nereby requests that We ed 4" steel pipe at 2' fron to cover that Trinet enco ch was not indicated on note, Trinet requests "o	ote 4 on sheet U- bcor "notify TJPA" of in the west face of buntered in their the contract plan. direction on the backfill the trench sponse is requested			Answered by I AECOM 12/29					
-0059	Unidentified 6	in Pipe Encountered in Fre	mont St in line with FOC	Closed	12/15/2010	12/25/2010	01/03/2011	Potential	ly	
	r Construction LP	David Hungerford	To: Turner Construction Com	ipan Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric 2	ʻagol		
o-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
	heet U-1008, attached s and documentation of n				Coordinate wit Demolition Pla	th Existing Term	nolition Project) tl			
at station 4+4 1008, Trinet h	hed section through the 0 on Fremont St. Per no nereby requests that We ed 6" clay pipe at the we	ote 4 on sheet U- bcor "notify TJPA" of			Demolition Pro	oject has aband	oned sewer laterandoned per SFDP			
4'-7" to cover which was no	that Trinet encountered t indicated on the contra rinet requests "direction	in their trenching act plan. Per the				ed abandoned, one shown in the	cut and plug at the Drawings.	;		
as soon as po	s plated but would like to ossible. An expedited re- rection on how to procee	sponse is requested								



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

914 of 1053 10:53 AM

Time: Job:

30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
J-0060	Unidentified 6	in Pipe Encountered in Frei	mont St in line with FOC	Closed	Closed 12/15/2010 12/25/2010		01/04/2011	Potentiall	 y
From: Webcor	Construction LP	David Hungerford	To: Turner Construction Comp	oan Kevin Chiu	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Trinet RFI 39 a North See the attache at station 4+40 1008, Trinet he the unidentified curb and 6'-6" t trenching which	eet U-1008, attached sland documentation of noted a section through the ed section through the ed on Fremont St. Per note the end of a section through the end of a section through the end of the end	investigative trench te 4 on sheet U- bcor "notify TJPA" of the west face of ountered in their the contract plan.			Coordinate wi Demolition Plather TJPA Rep Demolition Pro Sewer laterals Standards.	th Existing Term ans Project (Der presentative to co pject has aband s should be abar	nolition Project) to onfirm that the oned sewer laterandoned per SFDF cut and plug at th	hrough als. VV	
as soon as pos	plated but would like to ssible. An expedited res ection on how to procee	sponse is requested							
J-0061	Revised drawi	ng for 8" water line on Mini	na St. at Second St.	Closed	12/20/2010	12/30/2010	12/21/2010	Potentiall	y 🗌
From: Webcor (Construction LP	Mario Saldana Sr.	To: Turner Construction Comp	oan Kevin Chiu	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
hydrant installa	eet U-3407 drawing for the 8" wate ation on Minna St. (refe t of Station 1+02. Pleas	erence RFI U-0017			to the water ling Joint Trench r	ne along Minna	ch that shows rev Street as a result to the sub sidew and St.	of the	
as field constru	uction should be at this	point by Tuesday							
J-0062	Unidentified 8	in Pipe Encountered in Frei	mont St 8ft 3in from FOC	Closed	12/22/2010	01/01/2011	01/03/2011	Potentiall	v 🗀
From: Webcor (David Hungerford	To: Turner Construction Comp				nical Service Eric		<i>,</i> \Box
Co-Author:		Ü	ramer denombered		•	7.200		-ugu.	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	eet U-1008 (dated 2010	0.09.29) and	oode mon.		_		utility condition.		
allacheu skelci	ii iidiii Tiiliet				In accordance	with specification	on 00 08 10 secti	on 1.3	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

915 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

See attached section through the investigative trench at Station 4+40 on Fremont St. Per note 4, on sheet U-1008 Trinet requests direction on an unidentified 8" steel pipe found 8'-3" from the East face of curb and 4'-4" to cover that was encountered but not indicated on the contract documents.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this pipe by 12/27/10.

EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note. 8" steel pipe is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.

U-0063 Unmarked service lateral on Minna St. at Station 3+08 Closed

01/01/2011

12/22/2010

ANSWER:

12/27/2010

Potentially

From: Webcor Construction LP

Reference: Sheet U-3107 (dated 2010.09.29)

David Hungerford

To: Turner Construction Compan Kevin Chiu

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

SUGGESTION:

Accept Suggestion: Unknown service lateral to vacant lot. Coordinate with SFWD through TJPA Representative to shut off



Number

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 916 of 1053 11/05/2013

Time:

10:53 AM 30100

Impact Proceed

Cost

30100 - Transbay Transit Center Project

Status

Date

Created

U-0064	Unidentified Facility in First St. Invest Trench - from Stn. 9+70 to 9+59.5	Closed	12/22/2010	01/01/2011	01/03/2011	Potentially
Street, Trinet end lateral at station the south side of during constructi The utility was no no new service ladepicted on the rithis location. Plet the service. The reconnection will service is to be not lateral at the service.	on for the 8" water main along Minna countered a 1" Polyethylene service 3+08, that extended into the vacant lot on the street. The service was broken on and Trinet has temporarily capped it. of shown on any utility plans. There is also ateral, or reconnection of an existing, new water main drawings at or adjacent to ease advise on what should be done with repair is only temporary and a permanent need to be performed by the SFWD if the naintained active. If the service is to be in Trinet recommends that it be shut off at the old main.		broken lateral Answered by AECOM 12/27	Eric Zagol		

To: Turner Construction Compan Kevin Chiu

REQUEST:

Co-Author:

From: Webcor Construction LP

Reference: Sheet U-1007 and attached sketch of areas plan view

Subject

See attached, plan views of the investigative trench on the East side of First St, West of the concrete MUNI median, from Stn. 9+70 to 9+59.5. Per note 4 on sheet U -1007, Trinet requests direction on the 4" Cardboard Pipe found 2'-0" West of the concrete MUNI median face of curb and 3'-6" to cover that was encountered but not indicated on the plans.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/23/10.

SUGGESTION:

David Hungerford

ANSWER: Accept Suggestion:

Date

Required

Date

Answered

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Answered By: AECOM Technical Service Eric Zagol

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

917 of 1053 11/05/2013

Time: Job:

in specification 331160 Appendix A. Service is an

10:53 AM 30100

			•		-			
lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
			charged elect performs NET telecommunio Once the utilit and contents, energized, cu	tric utility utilizing TA type work. Do cation cables are ty has been ided and determined	e operational. ntified including ow d inactive or de- at the demolition			
J-0065 From: Webcor Construc	Two Unidentified 4" Pipes in First St. Inve	est Trench from Stn. 10+00 to 9+70 To: Turner Construction Compa		12/23/2010 Answered By	01/02/2011 V:AECOM Tech	12/29/2010 nical Servic: Eric Z	Potential	
Co-Author:	David Hangohold	19. Turner construction comp	ari Keviii Ciliu	74.000.04 2	J-ALCOM TECH	nical Service Enc 2	agoi	
plan and section, attact See attached plan and trench on the East side 9+70. Per note 4 on sh direction regarding the encased pipes found a 3" that was encountere Trinet has this plated b as soon as possible. A	or, attached sketch of areas in med USA North tickets section through the investigative of First St.from Stn. 10+00 to eet U-1007 Trinet requests two 4" concrete and redwood the East face of curb and down 2'd but not indicated on the plans. ut would like to backfill the trench in expedited response is requested how to proceed with this facility by	SUGGESTION:		the inactive 2 TMH1887 to t	-3" AT&T conduthe Existing Tra Once confirmed olition Plans. Eric Zagol	gestion: dwood encased pi dwood encased pi lits from AT&T ma nsbay Terminal as demolish in accor	nhole shown	
J-0066 I	Minna St Station 2+09 - 4" Water Service stion LP David Hungerford	Lateral Encountered To: Turner Construction Compa	Closed an Kevin Chiu	12/23/2010 Answered By	01/02/2011 y :AECOM Tech	12/28/2010 nical Service Eric Z	Potential Zagol	ly
Co-Author:						. —		
REQUEST: Refer to Sheet U-3107		SUGGESTION:		ANSWER: Existing 4-inc	Accept Sug h service for 83	gestion: Minna Street is in	dicated	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayasiii Joint Venture

Page: Date: 918 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
During the water installation on Minna St we encountered an existing 4" water service lateral at Sta 2+09. The 4" service extends from the old 8" water main to 83 Minna St (Anchor & Hope Restaurant). This is in addition to a 1" service lateral to the same building which we encountered at station 2+09. The contract drawings only show the 1" water lateral service connecting to the new main. Please advise if the existing 4" service lateral is active and if it must be connected to the new water main. There was no material on site to install a tee in the line, and to avoid delaying the work, the new water main isntallation continued past the 4" service lateral. The recommendation is that if the 4" service line needs to be connected to the new main, work can be performed by SFWD as an additional tie-in.					active fire service connected to the furnish and in accordance with service 4-inch service and vaservice elevation. Connection fro 4-inch service. Answered by EAECOM 12/28	aint in d install ch I-inch			
U-0066.1	Minna St Stati	on 2+09 - 4in Water Servio	ce Lateral Encountered	Closed	01/10/2011	01/20/2011	01/14/2011	Potential	lv \square
	or Construction LP	Jason Dunne	To: Turner Construction	Compan Kevin Chiu	Answered By		ical Service Eric		,
Co-Author:			Tarifor Condition	Compan Novin Cina		71200111 100111	iodi Colviot Ello	Lago.	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	restion:		
Reference S	heet U-3107 and Trinet R				Construct water	er serive lateral	in accordance w I note the followi		
#59 (RFI#U- service conn Senior Inspe attached inst to be perforn	This is a follow up to the engineer's response to Trinet RFI #59 (RFI#U-0066). Upon further evaluation of the 4" fire service connection at 83 Minna by Tom Farhnam (SFWD Senior Inspector), the water department proposed the attached installation detail for an 8"x4" tee in the 8" main, to be performed by Trinet, and the connection detail to the existing 4" service, to be performed later by the SFWD				contract docur	nents	accordance with		

U-0067 Buried Manhole in First St. Invest Trench - 15ft 7in from FOC

From: Webcor Construction LP

crew. This change was proposed to avoid conflicting utilities running along the south side of teh new 8" main. AECOM's Design Engineer, Eric Zagol, was advised of the changed design plan proposed by SFWD in the field on 12/28/2010. Please confirm if the attached plan is acceptable and approved for construction.

David Hungerford

To: Turner Construction Compan Kevin Chiu

Closed

12/23/2010 01/02/2011

12/28/2010

Potentially

Answered By: AECOM Technical Service Eric Zagol



top of the MH will be demolished to allow the installation of

the waterline, and the MH will be backfilled with CDF.

****Please provide direction by 12/28/10.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 919 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

1 foot.

Answered by Eric Zagol AECOM 12/27/2010

				•		•			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	e: Sheet U-1007, attached seand attached documentation h	•			Manhole appe sanitary sewe		andoned separate	d	
section th First St.fr 1007 Trin manhole buried 4'-	ighlighted man hole on attach rough the investigative trench om Stn. 10+00 to 9+70. Per n et requests direction regardin found 15'-7" from the East fac 6" deep that was encountered ntract plans.	n on the East side of note 4 on sheet U- g the unidentified be of curb and			condition (e.g accordance w	. filled with sand with 02630 4.1 G in be determined Eric Zagol	material (e.g. brick I or concrete) in .5 such that the I.	:) and	
as soon a	s this plated but would like to less possible. An expedited respal direction on how to proceed	oonse is requested							
-0068	Minna St Water	· Main Conflict w Abandone	ed Sewer MH	Closed	12/23/2010	01/02/2011	12/27/2010	Potential	lly 🗀
From: We	bcor Construction LP	David Hungerford	To: Turner Construction Cor	mpan Kevin Chiu	Answered By	:AECOM Techi	nical Service Eric Z		, _—
Co-Author:									
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attac	hed drawings adn photos						isting abandoned	-1	
encounte	e water main installation on M red what appears to be an old	d abandoned sewer				w bottom of new	tem manhole to a water main.	aepin	
was not ir	in the trench line at station 1+ ndicated on the drawings and pavement asphalt was remove	was not discovered			Plug existir concrete per (inch sanitary sewe	∍r with	
manhole water ma	is directly in conflict with the a in. The installation of the wate urhter untill the manhole is de	alignment of the new ermin cannot					le with CDF to an of new water mair	۱.	
abandone	ed.				and bottom of	trench bedding	g material betweer per Detail 7 on Sh		
	d walk with Eric Zagol on 12/2 confirmed abondoned. Please					at the total depth ding crossing th	า e abandoned struc	ture is	



REQUEST:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

920 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

20100 Transhay Transit Contar Project

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
U-0069	Street Light C	CTV Camera-East Side of Fre	mont St. @ Stn. 5+45	Closed	01/05/2011	01/15/2011	01/14/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Richard Buellesbach	To: Turner Construction C	ompan Kevin Chiu	Answered By	:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST: Reference Sheet U	J-3302 and Trinet R	RFI 62	SUGGESTION:		ANSWE R: 1/14/11	Accept Sug	gestion:		
During removal of t Fremont St. @ Stn CCTV camera and Please advise of th	. 5+45, Trinet obse associated wiring	erved that there is a on the light pole.			the traffic sign signal equipm Shop Yard in par. 3.4 C 4. 1/12/11 Please clarify	nal equipment re nent and camera accordance with	lates to RFI U-00	affic Inal 41 00	
U-0070		ructures in Conflict with Min	na St. AT&T Vault	Closed	01/10/2011	01/20/2011	01/12/2011	Potential	ly
From: Webcor Cons	struction LP	Jason Dunne	To: Turner Construction C	ompan Kevin Chiu	Answered By	:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:									
vault in the sidewal existing subsurface top of the subsurfa approximately 4' fro conflict with the ins	ng on Minna St. for alk (Stn. 3+72), we end foundation and slucked foundation is at the top of the signature partial demolition of the proposed AT&T vaure partial demolition	the proposed AT&T encountered an urry shoring wall. The a depth of idewalk and is in posed AT&T vault. It in accordance with n of the existing	SUGGESTION:		Turner, AECC wall is an aba Remove and basement wal	DM and Tishmar ndoned sidewal dispose of existi	isit on 1/10/11 with Speyer, the expose k basement wall. ing abandoned sign pprox. 1.5 feet in	osed dewalk	
U-0071 From: Webcor Cons	•	gs at tie in location for Minna Richard Buellesbach	St. 8 in. Water Main (Stn. 9+ To: Turner Construction C	•	01/10/2011 Answered By	01/20/2011 / :AECOM Techr	01/12/2011 nical Service Eric 2	Potentia l Zagol	ly

SUGGESTION:



01/12/2011.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 921 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Reference Sheet U-3109 and Trine Due to the presence of existing fitti existing 8 inch water main at our tie at First St. and Minna St. for the ne Minna St., SFWD inspector Dan He extend the limits of the tie in excave locations of the existing fittings. Th would normally be required for a tie Existing conditions were reviewed i Turner, SFWD, Eric Zagol from Aer personnel.	ngs installed in the in location (Stn. 9+30) w 8 inch water main on elmnik has requested to ation beyond the is is beyond what in of this nature. In the field by W/O,			trench for pip connections t	es, fittings, and to the existing was with U-3100 Note	to excavate and valves as necess ater mains by SF 4 and specificat	ary for WD in	
Please advise. An expedited respon	nse is requested.							
0072 Fremont St	traffic Signal Pole to be remo	oved and salvaged - has Muni Cable a	ttach Closed	01/10/2011	01/20/2011	01/18/2011	Potentia	ily
From: Webcor Construction LP	David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered B	y: Turner Constru	uction Comr Jack	Adams	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U-3302 and Trine	t RFI 65			J. Adams 01/	18/2011			
Per contract, Trinet is required to re existing light pole indicated in the a Through observation in the field, the a MUNI cable attached which runs Fremont St. and Mission St Based should the light pole be removed as Saldana from W/O was present who observed and issue has been discutrom AECOM.	ttached drawing. e existing light pole has to the intersection of d on these findings, s indicated? Mario en this item was			OCS poles al Mission Towe MUNI has de guy wires at I drawing Shee and be delete NOTE: Evans	ong east side of er are in use by Naignated each Offermont and Miset 105 of 137. The from Webcors Bros Subcontra	not Lighting Pole: Fremont near 30 MUNI OCS Syste iCS pole to hold of sion see Demolifie e poles are to re Obayashi/Trinet actor Reliance El	on. m. different tion main scope. ectric	
Please advise. An expedited respon	nse is requested by					both of these OC drawing plan she		

J. Adams 01/13/2011

The MUNI Overhead Contact System (OCS) Pole in

of 137. A second cable will be installed at OCS Pole 4030 and the cable will be reinstalled at OCS Pole

directly north of Pole 4030 per contract.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 922 of 1053 11/05/2013

Time:
Job:

1. Remove and salvage traffic signal equipment per U-

2. Protect in place existing MUNI pole at STA 5+60.

3302.

10:53 AM 30100

Proceed



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

923 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
U-0073	Fremont St. L	ight Pole and Muni Cables t	o be protected - indicated light pole ha	s r Closed	01/10/2011	01/20/2011	01/10/2011	Potential	ly 🗆
	r Construction LP	David Hungerford	To: Turner Construction Compan Ke				ruction LP Marii		,
Co-Author:			·			-			
REQUEST: Reference St 66	heet U-3302 Traffic Signa	al E and Trinet RFI	SUGGESTION:		ANSWER: Can't find ans	Accept Sug	-		
and Salvage Muni Cables	on the plans, Trinet is re Traffic Signal Equipmen in Place." Conditions we e is no Muni cable attact	t. Protect Pole and ere reviewed in the							
cable attache and requests	na from W/O has observed to the pole not mention clarification on ownersh his issue has been discut.	ned in Trinet RFI 66 ip and status of the							
Please advise 01/12/2011.	e. An expedited respons	e is requested by							
U-0074	Unidentified 9	in Concrete Wall in First St	Invest Trench - 10ft-5in west of Conc. N	lu Closed	01/10/2011	01/20/2011	01/25/2011	Potential	ly 🗌
From: Webco	r Construction LP	Jason Dunne	To: Turner Construction Compan Ke	evin Chiu	Answered B	y:AECOM Techi	nical Service Eric		,
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference St 051	heet U-1007 Traffic Sign	nal E and Trinet RFI			Center Proje	ncrete wall to be	demolished by Toe area impacted		
east side of F from Stn. 9+7 Trinet reques unidentified 9 concrete Mur Trinet encour note, Trinet re structure. Tri	I, plan views of the investifiest St., west of the cond to 9+59.5. Per note 4 sts that Webcor "notify To" concrete wall at 10ft-5in median face of curb arntered "not indicated on pequests "direction on the net has plated but would on as possible. Please and	crete Muni median, of sheet U-1007, JPA" of the in west of the nd 3ft-6in cover that plans". Per same e demolition" of this like to backfill the				g wan and made	, oncertaion.		
U-0075	Water Main Co	onnection at 2nd St and Mir	na St - expose new line for SFWD	Closed	01/11/2011	01/21/2011	01/12/2011	Potential	ly 🗆



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 924 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor Construction LP	Mario Saldana	To: Turner Construction Compan M	lichelle Smith	Answered By	:AECOM Tech	nical Servic _s Eric	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U-3107 and attac	hed photos					to excavate and valves as necess		
At the intersection of 2nd St and M existing 2in gas line running direct existing 8in main to be tied into. SF Tee connection due to the bells of gas line so close.	y on top and next to the WD cannot make the			connections t	o the existing with U-3100 Note	ater mains by SF e 4 and specificat	WD in	
The end of the new line installed by exposed about 2ft for SFWD to mo by 1ft east so that SFWD can mak without moving the gas line. This v for Trinet to expose the new line for from AECOM and Dan Helminiak furnesent during the discussion of this	ve the end of the line e the connection vill require extra work r SFWD. Eric Zangol rom SFWD were							
Please provide direction as soon as impact the chlorination and tie-in so								
-0076 Water Main	Connection at 2nd St and M	inna St - demo/excavate per SFWD	Closed	01/11/2011	01/21/2011	01/14/2011	Potentia	lly
From: Webcor Construction LP	Mario Saldana	To: Turner Construction Compan M	lichelle Smith	Answered By	:AECOM Tech	nical Service Eric	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U-3107 and attac	hed photos					to excavate and valves as necess		
At the intersection of 2nd St and M water main is to be connected to at The new 8in line installed by Trinet existing utilities, and SFWD require demo/excavation to make the connection of the state of	n existing 6in water line. is above and below is more			connections t	o the existing with U-3100 Note	ater mains by SF a 4 and specificat	WD in	
This will require extra work for Trine SFWD. Inspector Dan Helminiak is to come back and measure this aft Eric Zangol from AECOM was also discussion of this issue.	scheduling the SFWD ernoon (01/11/2011).							
Please provide direction as soon as impact the chlorination and tie-in so								



confirmed as an active fire service to 2 Shaw Alley by SFWD personnel through on site investigations. Trinet

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 925 of 1053 11/05/2013 10:53 AM

30100

Time:

lum	ber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-00	77	Fire Hydrant Inst	allation at Minna St Stn. 0	+90	Closed	01/12/2011	01/22/2011	01/14/2011	Potential	lly
	From: Webcor Constr	uction LP	David Hungerford	To: Turner Construction Comp	an Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-/	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sheet U-3	107					on site with Dar	niel Helminiak (S		
	With reference to the (northeast corner of S Note #5 on sheet U-3 existing fire hydrant." Per on site field discurate Robert Friend from T was determined that place until after the neperformed by CDD crivill be removed and rinstalled and tested. Please confirm if this response is requested.	Second St. and Minimor to the second St. and Minimor to the second St. and Minimor to the existing hydrant eww water main consews. After which the whydrant and lath is acceptable. An existing the second St. and St.	na St.) General o "replace in place Iggol from AECOM, dana from W/O, it t would remain in nections are ne existing hydrant eral piping will be			construction s St. STA 0+90 Coordinate wi Inspector) and properly deco following main abandonment SFWD prior to Coordinate wi and SFFD ins existing fire hy	th Daniel Helmind the SFWD to emmissioned by a connections by to fire hydrant insert he SFPUC inspectable a black hydrant and new ant being placed	ed above, the pre fire hydrant at miak (or assigned ensure the fire hy SFWD and SFF or SFWD and price at a significant of the stallation by Trine ector to ensure Strant "donut" on fire hydrant prior in service. Cooce new fire hydra	Minna d SFPUC ydrant is D or to treet by et. SFWD the t to the rdinate	
J-00	78	6in and 4in Servi	ice Laterals to 2 Shaw Alle	ey	Closed	01/12/2011	01/22/2011	01/14/2011	Potential	lly 🗀
	From: Webcor Constr	uction LP	David Hungerford	To: Turner Construction Comp	oan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	- 🗀
Co-/	Author:									
	REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sheet U-2 The existing 4" water confirmed abandoned investigations. Since inactive, Trinet intending main for this 4" servic Zagol from AECOM, Helminick from SFWI addition, Dan Helminiservice tee installed i provide service for thipipe installed. Please	service found at State by SFWD persons the service is determined by the service is determined by the service as discussed in the analysis of the service of	nel through on site rmined to be rvice from the new the field, with Eric the W/O, Dan d from Trinet. In the sted to have the which was to d and straight			utility investig submitted prio determine sta U-3108 Gene remove the 8' straight pipe p inspector. Provide 6" wa contract docu	ations should had to installation tus of existing laral Note No. 3. "x8" x4" tee instate the request of the revice later ments.	TA 5+37. Substance been perform of water main to ateral in accordant is acceptable filled and replace of SFPUC SFWE at STA 5+30 person of change in control of the stance	ned and nce with to with)	
	The 6" weter convice	lataral found at Ctn	Fi20 has been			, , , , , , , , , , , , , , , , , , , ,				



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 926 of 1053 11/05/2013

Date: Time: Job:

: 10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
lumber	Subject	Status	Created	Required	Answered	Impact	Procee
	-						

To: Turner Construction Compan Michelle Smith

intends to provide service from the new water main for this 6" service as discussed in the field with Eric Zangol from AECOM, Mario Saldana from W/O, Dan Helminiak from SFWD and Robert Friend from Trinet.

An expedited response is requested.

From: Webcor Construction LP

U-0079 Fremont St Temp Water Line Installed over AT&T Duct

Nhi Tran

Closed

01/27/2011

01/19/2011

Potentially

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

Deference Chart II 2422 and attached de

Reference Sheet U-3123 and attached detail

During Trinet's installation of the temporary water line in Fremont St., Trinet encountered an existing AT&T duct that was in direct conflict with the temporary water line. Trinet was directed by Eugene Chu of SFWD/SFPUC to run the temporary water line over the existing AT&T duct using 45 degree bends. This resulted in less cover for the piping than what is required by the Water Department. Due to the lack of cover, Trinet was directed to install a 1/2in steel plate beneath the concrete base along the trench as depicted in the attached detail. The plate was approximately 2ft wide by 6ft long and extended to the limits of the installed 45 degree bends. Please provide confirmation that this is acceptable.

SUGGESTION:

ANSWER: Accept Suggestion:

01/17/2011

It is AECOM's understanding that Trinet encounter an existing PG&E electrical duct (4-4") crossing the water alignment feeding 301 Mission property and not an AT&T duct as referenced above. It is also AECOM's understanding that Trinet encountered an existing PG&E electrical duct (8-3") parallel to the water alignment which is ultimately to be abandoned by PG&E and demolished by Trinet. Both PG&E ducts are shown in the plans. Per sequencing shown on U-1123, the water line should be constructed after PG&E completes their work on Fremont Street.

Given the fact that the PG&E duct parallel (8-3") has not been abandoned by PG&E, and given the fact the option to go under the existing 4-4" PG&E duct per plans is not feasible because the existing 8-3" PG&E duct is not demolished, and given the fact that the new water main is a temporary condition, the above mentioned installation proposal is acceptable.

AECOM suggests no additional cost to contract price to perform this work.

U-0080 Proposed Design Change for MH #501

Closed

01/27/2011

01/17/2011

01/28/2011

Potentially

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Michelle Smith

Answered By: AECOM Technical Service Eric Zagol

Co-Author:



501 and shop drawings for the precast MH sections. The

have a problem with a 5' I.D. manhole.

design was discussed with Cliff Wong from the SF Bureau of Engineering, Hydraulics Department, and he did not

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

927 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

02/18/2011 - Eric Zagol

The proposed design change for sewer manhole #501

from a Modified Box Manhole per SFDPW Standard

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	<u> </u>			otatus	<u> </u>			mpaot	77000
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Trinet proportion at the second secon	Sheet U-2021 and attached uses to change the design a Modified Box Manhole (In a Precast Concrete Manhole : a Precast Concrete Manhole : a see attached drawing the installation of a tempora outh from the manhole are per SF Standard Plan #8 and the sed manhole design will farmany utilities identified in the 121 (Trinet RFI 04). It is also sign for 24in pipe per the specially since the brick is the abandoned and pluger. This plan will also facilient of the outlet to the sour plug the 24in outlet pipe	n of sewer manhole per SF Standard Plan hole (per SF Standard). The proposal ry 24" PVC pipe stub, nd connected to the 17,197. cilitate construction the excavation - see so the preferred SF Standard sewer on the south gged (in the manhole) itate the later ith, as the owner will and not a 3x5 brick			specifies a 4 the Three (3) 24-in manhole at in may yield an in A larger diam acceptable hos submitted as approval. As per the resmark up of U-	Standard Plan #8 It diameter preci- inch pipes conne- vert elevation as- unstable structu- eter precast con- wever the alterr a substitution for sponse to RFI U 3021 indicating ecation of the uti	B7,181 referenced ast concrete manh ecting to a 4 ft dians proposed by conrete manhole manative would need r CCSF SFDPW -0021, please prothe size, and horizlities identified in the size of the size	nole. meter stractor oved. ay be to be ovide a zontal	
Please cons	sider. An expedited respo	nse is requested.							
-0080.1	Proposed De	sign Change for MH #501		Closed	02/09/2011	02/18/2011	02/22/2011	Potential	ly
From: Webo	or Construction LP	Nhi Tran	To: Turner Construction Compan Mich	elle Smith	Answered By	:Turner Constru	uction Comr Kevin	Chiu	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference S drawings	Sheet U-2021, RFI #U-00	80, and attached			02/22/2011 -	Kevin Chiu			
and size of 501 (RFI#U installation of base. The lowith a preca	to the Engineer's concerpipes in Trinet's original re-0080), Trinet has changedrawing to include a 5' I.E. ower precast section of the streducer section transitations. Attached is the re-	evised detail for MH ed their proposed D. cast-in-place MH ne MH will be 5' I.D., cioning from 60" to 48"			accepted sub	stitution of the 5 hole in lieu of th	be issued for the -foot diameter pre e cast in place Mo	cast	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 928 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Trinet reque	ests an expedited respons	e.			5-foot diamete temporary 24 3¿x5¿ brick s #87,197 is ac	er precast concr ¿ PVC pipe cons ewer per SFDP\ ceptable.	contract documer ete manhole with nection to the exi W Standard Plan	a sting	
					diameter pred		ons to the 5-foot anhole as shown 81.	in	
					please provid and horizonta	e a markup of U Il and vertical loc onflict for review	-0080 and U-002 -3021 indicating to cation of the utiliti . This request is	the size, es	
					the 5-foot dia	meter precast co	lit for the substitu oncrete manhole Box Manhole per	for the	
-0081	Water Main A	lignment - Howard St S1	A18+72 and STA19+98	Closed	01/19/2011	01/28/2011	01/24/2011	Potential	ily 🗌
	or Construction LP	Nhi Tran	To: Turner Construction C	ompan Michelle Smith	Answered By	y:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Reference S	Sheet U-3119 and attache	ed drawing				rawings indicate own on the plans	an offset to avoi	a bus	

Please confirm that it is acceptable for M Squared to install the new 12in water line in a straight line as sketched on the attachment. Contract Drawings show the pipe offsetting between Sta 18+72 and Sta 19+98. Due to existing utilities discovered in potholes the 12in line will be installed 18ft from centerline.

Also, please confirm the elevations of the water line can be raised dependant on the depths of the existing utilities

Also, the referenced drawing has a discrepancy shown between the 12in water line bend station called out and the location shown in plan view. Please confirm that the first 45degree bend is located at 18+72, and not 18+27.

1. Contract Drawings indicate an offset to avoid a bus island, as shown on the plans, that was to be constructed as part of the Transbay Temporary Terminal Project. AECOM received confirmation from Philip Sandri TJPA/PMPC that the bus island was deleted from the Transbay Terminal Project. It is acceptable to eliminate the offset and construct water main between STA 18+72 and STA 19+98 at 18ft from

centerline.

2. Elevations of the water line can be raised dependant on the depth of the existing utilities. Minimum depth of cover shall be 18-inches below the bottom of the concrete base pavement section per DPW Order No. 176,707 or 28" which ever is greater.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

the subcontractor or W/O of the responsibility of

929 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
							45 degree bend n se provided in ite		
0000	Saucan Suratana	Ovelity Assurance Clari	ft4t	Classel	04/40/0044	04/00/0044	04/04/0044	Datantia	
-0082	•	Quality Assurance Clari		Closed	01/19/2011	01/29/2011	01/21/2011	Potential	
From: Webcor C	onstruction LP	Nhi Tran	10: Turner Construction	Compan Michelle Smith	Answered By	: Lurner Constru	uction Comr Mich	elle Smith	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Reference Spec	ifications Section 33 3	31 10, 1.4.E			For general m	aterials, please	follow the specifiered materials in (cation	
	TJPA or DPW is going pipe as described in ction.				31, section 1. SUBJECT to means that al delivery if TJF the material. (deliveries and TJPA will info prior to install additional labe for inspection that contracto TJPA with this. There is no ¿linspect mater TJPA/DPW in of each subcolevel is built the proper am material inspectiverify all dime field condition	4C determines to inspection by To piping is to be A/DPW deems Contractor to infrassure the storem contractor if atton. When TJF or is needed to replease referent is to furnish lab at manufact tends to inspect tends tend	IPA and/or DPW. made available u it is necessary to	This pon o inspect ressible. It is possible to the spected at round attes assist. D to very. Iliveries fidence insuring eir own all k all on,	



M Squared has confirmed that the wooden duct bank is a

Webcor/Obayashi Joint Venture

Page: Date:

Job:

Construct 12-inch water main at the location

930 of 1053 11/05/2013

Time:

10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### Subject Status Date Required Answered End Cost Proceed Required Answered End End End End End End End End End En	JOINT VENTURE		30100 - Transbay T	ransi	t Center	Project			
Co-author: Co-author: Co-	Number <u>Subj</u> e	ect	Statu	ıs					Procee
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Michelle Smith Answered By: AECOM Technical Service Eric Zagol ANSWER: Accept Suggestion: Existing 6-inch steel pipe appears to be a 6-inch cast iron abandoned PG&E gas main. Confirm the "6ft x 6ft wooden telecom duct bank" is a 6-inch x 6-inch wooden duct bank and is abandoned. Refer to RFI # U-0083.1 Refer to RFI # U-0083.1 Refer to RFI # U-0083.1 Water Main Alignment of the new 12in water main. To: Turner Construction Compan Michelle Smith ANSWER: Accept Suggestion: Existing 6-inch steel pipe appears to be a 6-inch cast iron abandoned PG&E gas main. Confirm the "6ft x 6ft wooden telecom duct bank" is a 6-inch x 6-inch wooden duct bank and is abandoned. Refer to RFI # U-0083.1 Refer to RFI # U-0083.1 Refer to RFI # U-0083.1 Water Main Alignment on Howard at Beale From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Michelle Smith Answered By: AECOM Technical Service Eric Zagol					constitute an a the responsibi ensure the ma contractual red	acceptance of m lity of the subco aterials used for quirements set for	aterials. Ultimate ntractor and W/O the project meet	ely, it is to the	
REQUEST: Reference Sheet U-3118 Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 16+25 reveal a Gin steel line that is unmarked and not shown on contract drawings. The line is 18th south of the Howard St centerline. This is the proposed all glimment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16th souden telecom duct bank and is abandoned. Refer to RFI # U-0083.1 Refer to RFI # U-0083.1 Water Main Alignment on Howard Street enterline. This is the removal of the new 12in water main. Please confirm the alignment of the new 12in water main. To: Turner Construction Compan Michelle Smith ANSWER: Accept Suggestion: Existing 6-inch steel pipe appears to be a 6-inch cast iron abandoned PG&E gas main. Confirm the 'St x St wooden duct bank' is a 6-inch x 6-inch wooden duct bank and is abandoned. Refer to RFI # U-0083.1 Refer to RFI # U-0083.1 This would require the removal of the wooden duct bank and the removal of the abandoned manhole shown on U-3118 (Sta 14+96 ¿ 15ft from Howard St centerline) Please confirm the alignment of the new 12in water main. To: Turner Construction Compan Michelle Smith Answered By: AECOM Technical Service Eric Zagol Co-Author:	J-0083 Wate	r Main Alignment on Howard at Beale	Close	ed	01/19/2011	01/29/2011	01/20/2011	Potentiall	у
REQUEST: Reference Sheet U-3118 Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 16+25 reveal a 6in steel line that is unmarked and not shown on contract drawings. The line is 18th south of the Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16th south of the Howard St centerline. Also there is a 6th x	From: Webcor Construction	LP Nhi Tran	To: Turner Construction Compan Michelle S	Smith	Answered By	:AECOM Techn	ical Service Eric Z	Zagol	
Reference Sheet U-3118 Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 16+25 reveal a 6in steel line that is unmarked and not shown on contract drawings. The line is 18ft south of the Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16ft south of the Howard St centerline. Also there is a 6ft x 6ft wooden telecom duct bank that runs east to west on Howard Street at 15ft south of the Howard Street centerline. This location offers the closest window for the new 12in water line to the original alignment shown in the contract drawings. This would require the removal of the wooden duct bank and the removal of the abandoned manhole shown on U-3118 (Sta 14+96 & 15ft from Howard St centerline) Please confirm the alignment of the new 12in water main. Water Main Alignment on Howard at Beale From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Michelle Smith Answered By:AECOM Technical Service Eric Zagol	Co-Author:								
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Michelle Smith Answered By: AECOM Technical Service Eric Zagol Co-Author:	Reference Sheet U-3118 Potholes on Beale Street at 16+25 reveal a 6in steel line shown on contract drawings Howard St centerline. This is the new 12in water main. The reveals a 3in steel conduit we Howard St centerline. Also the telecomeduct bank that runs at 15ft south of the Howard offers the closest window for original alignment shown in 17 This would require the removal of the abant 3118 (Sta 14+96 ¿ 15ft from 18 This would require the removal of the abant 3118 (Sta 14+96 ¿ 15ft from 18 This would require the removal of the abant 3118 (Sta 14+96 ¿ 15ft from 18 This would require the removal of the abant 3118 (Sta 14+96 ¿ 15ft from 18 This would require the removal of the abant 3118 (Sta 14+96 ¿ 15ft from 18 This would require the removal of the abant 3118 (Sta 14+96 ¿ 15ft from 18 This would require the removal of the abant 3118 (Sta 14+96).	that is unmarked and not. The line is 18ft south of the sthe proposed alignment for the pothole at Sta 14+00 also which is 16ft south of the here is a 6ft x 6ft wooden to west on Howard Street Street centerline. This location of the new 12in water line to the the contract drawings. I wal of the wooden duct bank doned manhole shown on U-Howard St centerline)	SUGGESTION:		Existing 6-inch iron abandone 6ft wooden tel wooden duct be	n steel pipe appe ed PG&E gas ma ecom duct bank pank and is abar	ears to be a 6-incain. Confirm the	"6ft x	
	From: Webcor Construction	-	_			AECOM Techn	ical Service Eric 2		у 🗌



from the FOC. The existing 12in water line is 14ft-8in from

the FOC. The 10in High Pressure line is closer to the FOC

that shown on contract drawings. This now means that there is a larger window between the 10in high pressure

water and the existing 12in water main.

Webcor/Obayashi Joint Venture

J

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 931 of 1053 11/05/2013

Time:
Job:

Please clarify if dimensions provided by Contractor are

Please provide depth to centerline of the existing 10-

to centerline of pipe.

inch HPW (AWSS) potholed.

10:53 AM 30100

umbei	r Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
6	sinch x 6 inch wooden duct bank and is abandoned.					ard Street centerli		
P	Please direct M Squared on how to proceed.				ed manhole as r	equired to constru		
*:	******			12 mon water	main.			
C	Question from U-0083:			Refer to respon	onse provided fo	or RFI U-0083.		
R	Reference Sheet U-3118							
1 s H th re H te a o o	Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 6+25 reveal a 6in steel line that is unmarked and not shown on contract drawings. The line is 18ft south of the Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also everals a 3in steel conduit which is 16ft south of the Howard St centerline. Also there is a 6in x 6in wooden elecom duct bank that runs east to west on Howard Street at 15ft south of the Howard Street centerline. This location offers the closest window for the new 12in water line to the original alignment shown in the contract drawings.							
	and the removal of the abandoned manhole shown on U- 1118 (Sta 14+96 15ft from Howard St centerline)							
F	Please confirm the alignment of the new 12in water main.							
-0084	Water Main Alignment on Beale Street		Closed	01/21/2011	01/31/2011	01/25/2011	Potential	lly 🗀
Fr	rom: Webcor Construction LP Nhi Tran	To: Turner Construction Comp	oan Michelle Smith	Answered By	:AECOM Techi	nical Service Eric Z		, _—
Co-Aut	thor:	·						
R	REQUEST:	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	Reference Sheet U-3124	223020		Contract draw	ings show exist	ing 10-inch HPW		
	A Squared potholed at Sta 1+10 on Beale Street. We liscovered that the 10in High pressure water line is 9ft-5in					Contract drawing 13 ft-11in from FC		



Reference Sheet U-3125 and attached sketch

The existing 4no. 4in AT&T lines on Beale Street at Sta

6+10 are not as shown on the contract drawings. See

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Please proceed as per AT&T's suggestion.

Please coordinate with AT&T's representative Huan

Hunynh and field representative Dave Olson for an

932 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

			30100 - 118	ansbay mans	it Center	riojeci			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
12ft-3in from This would m the parking s SFWD would maintenance Please confii	would like to install the new center line of the pipe to nean the new 12in water letrip and the parking strip also prefer it outside the purposes. Transition from FOC, going	the FOC. line would be outside would stay in tact. e parking strip for install the new 12in			in conflict with	proposed Beal	n at 12ft-3in from e St. sewer main on requested, AE be moved west o	COM	
U-0084.1	Water Main Al	ignment on Beale Street		Closed	02/18/2011	02/28/2011	02/24/2011	Potential	ly 🗌
From: Webco	or Construction LP	Nhi Tran	To: Turner Construction Co	ompan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In response noted the fol - Yes, the dir pipe	heet U-3124 and RFI #U- to the Engineer's question lowing: mensions provided are to enterline of existing 10-inc	ns, M Square has centerline of the			the new 12in v from Sta 0+60 site meeting v on 2/11/11, co	water line at 12f) to Sta 1+90. <i>A</i> vith Noel M. (M2	not acceptable to t-3in from FOC, g As discussed duri 2) and Mario S. (V water line as sho o per Contract	going ng a Vebcor)	
U-0085 From: Webco	AT&T Duct Ba	nk on Beale at STA 6+00 Nhi Tran	To: Turner Construction Co	Closed ompan Michelle Smith	01/21/2011 Answered By	01/31/2011 ::AECOM Techr	01/27/2011 nical Service Eric	Potential Zagol	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 933 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

attached sketch.

Contract drawings show the conduit crossing M Squared's trench for 6 or 7 feet, however the duct bank is in the trench for 37 feet due to the alignment and width of the duct bank. The conduits are covered with a 2 foot wide concrete cap and appear in the trench for the new 12in water main at Sta 6+12 before leaving the trench at Sta 5+75. M Sqaured cannot lay the pipe on top of the concrete cap as the pipe will not have the required coverage.

Due to this M Squared is unable to install the new 12in water as shown. Juan with AT&T advised that M Squared remove the concrete cap from the conduits to allow for excavation of this portion of trench. With the cap removed it is more likely that the pipe will have the necessary minimum coverage.

Please confirm that this is how M Squared is to proceed. An expedited reponse is requested.

onsite inspection by AT&T of the affected AT&T conduits prior to backfill.

Confirm minimum cover of 30-inches or 18-inches below concrete pavement base which ever is greater, is maintained.

Provide distance between top of water main and bottom of AT&T conduits for review.

U-0086 Concrete Slab & Rail Ties at Howard STA 13+60

Nhi Tran

Closed

02/03/2011

01/25/2011

Potentially

Co-Author:

REQUEST:

Reference Sheet U-3117 and attached sketch

From: Webcor Construction LP

M Squared potholed at Howard Sta 13+60. The pothole revealed a 15in thick concrete slab which is in conflict with the proposed alignment of the new 12in water line. M Squared broke out a cross section of the slab and found nothing in it. There was also nothing underneath the slab for 5.5 feet. The southern edge of the slab is 4 feet north of the Howard Street center line. M Squared also discovered 6inch x 8inch x 4foot-6inch wooden rail ties.

If M Squared has to remove the concrete slab to install the water line at the alignment shown there is a danger that the MFS (fiber optic) conduits will be damaged as these conduits sit on top of the slab.

Breaking off an 18in section of the concrete slab and also

To: Turner Construction Compan Michelle Smith

SUGGESTION:

01/24/2011

ANSWER:

Accept Suggestion:

As discussed during a site visit on 1/25/11 with Noel (M Squared) and Mario S. (W/O) the Contractor's proposed alignment of 18-inches south of alignment per Plans is in conflict with the existing sewer (limited separation).

Answered By: AECOM Technical Service Eric Zagol

As discussed, pothole along Howard St. between Fremont St. and First St. to determine if 15-inch concrete slab is a local condition at the intersection of Howard and Fremont streets or if the slab extends to First St.



REQUEST:

703.08, attached

Reference San Francisco Standard Specification Section

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

934 of 1053 11/05/2013

Time:

10:53 AM

30100

ANSWER:

Accept Suggestion:

Jetting in accordance with CCSF DPW Standard

Specification Section 703.08 of the backfill layers

					Date	Date	Date	Cost	
Number	Subject			Status	Created	Required	Answered	Impact	Procee
excavate and insta away from the MF3 However this will b An alternative optic 12in water pipe 18 rail ties (as shown Mario S. from W/O	on is to move the troin south and just re in sketch).	e, while keeping damaging them. ench for the new move the wooden							
	n expedited respons	oceed with the water e is requested & Rail Ties at Howard STA	13+60	Closed	02/03/2011	02/14/2011	02/04/2011	Potential	
From: Webcor Con	struction LP	Nhi Tran	To: Turner Construction Con	npan Michelle Smith			nical Service Eric 2		,
Co-Author:									
between Noel (M2) due to existing utili slab and rail ties fo requested (Ref. Re water main is to be	esponse to RFI U-0	d Mario (Webcor) - ce of the concrete al potholing that was 086), the new 12in he northern FOC on	SUGGESTION:			Accept Suggiee attached sker the revised alig	tches SK-U-0003	and	
	0	an Daghelli Canal has letti		011	04/07/0044	00/00/004	00/02/2044	D-4	-
U-0087 From: Webcor Con	_	er Backfill Sand by Jetting Nhi Tran	To: Turner Construction Con	Closed	01/27/2011 Answered By	02/06/2011	02/03/2011 nical Service Eric 2	Potential	у
Co-Author:	ou double Li	WII HAII	· • · · · · · · · · · · · · · · · · · ·	npan mionene omiti	Allowed by	, ALOOM TEGIN	iicai Ocivict Elle 2	.agui	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 935 of 1053 11/05/2013

Time:

Cost

10:53 AM 30100

30100 - Transbay Transit Center Project

Date

lumber	Subject	Status	Created	Required	Answered	Impact	Proceed
		_					

Trinet requests authorization from the Engineer to compact the sewer trench backfill sand by jetting in accordance with the San Francisco Standard Specification Section 703.08.

The native material along Minna, which Trinet is re-using for trench backfill, is a clean well grade dune sand. Trinet believes jetting is an ideal method of compaction for this type of material. It is also an effective means of compacting the sand around the top and sides of the pipe without disturbing the pipe, and backfilling any voids left from removal of the shoring or that might have formed behind the shoring. This method of compaction is commonly utilized in San Francisco for sewer projects in similar ground conditions.

An expedited response is requested.

above the sand backfill (pipe zone) as specified in CCSF DPW Standard Specification Section 703.06 for sewer installations is acceptable.

Date

Date

Contractor shall determine that jetting will not result in damage to sewers, adjacent structures, or cause adjacent materials to be softened. Any resulting damage shall be repaired at the Contractors expense.

Meet compaction requirements for each horizontal lift. If compaction requirements are not met, discontinue the use of jetting.

Notify TJPA's geotechnical engineer through the TJPA representative in advance of jetting to coordinate onsite observation of jetting and compaction testing.

U-0088 Minna St 18in Sewer Conflict with PG&E MH#1355 at STA 1+77

Closed

02/07/2011

03/24/2011

Potentially

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Michelle Smith

SUGGESTION:

Co-Author:

REQUEST:

Reference Sheet U-2007 and attached drawings

During layout for the installation of the new 18in Sewer Main on Minna St., Trinet observed that the alignment of the 18in Sewer Main is in conflict with existing PG&E MH #1355 at STA 1+77.50, which is to remain in place. The center line of the new sewer main is 0.10ft north of the outside edge of the

which is to remain in place. The center line of the new sewer main is 0.10ft north of the outside edge of the manhole wall, as depicted in the attached drawing. The north side wall of the manhole is constructed on top of the existing 3ft x 5ft brick sewer. The brick sewer structure extends approximately 16in into the vault along its entire length. The brick sewer therefore cannot be demolished without undermining the north wall of the electric vault. Eric Z. of AECOM was notified of this issue via phone call on 01/21/2011.

Please advise:

ANSWER:

Accept Suggestion:

Answered By: AECOM Technical Service Eric Zagol

==UPDATE== 3/24/11

01/28/2011

See revised drawings Minna Street Revisions dated 3/16/11 assoicated with ASI#003.



at a field meeting on 12/28/10. On Friday 1/28/11 the SFWD, plumbers when taking measurements for the tie-in, proposed a different plan. They want to extend the new 6in fire line beyond the curb and into the basement, and

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webeen obayasın senit ventare

Page: Date: 936 of 1053 11/05/2013

Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
				-					
new 18in VCP Se	rinet proceed with the ins ewer at this location? rinet proceed with the de prick sewer?								
-0089	TJPA/DPW Inspec	ction of Materials		Closed	01/31/2011	02/10/2011	02/02/2011	Potential	ly 🗌
From: Webcor/Ob	payashi Joint Venture	Bob Garcia	To: Turner Construction Compar	n Kevin Chiu	Answered By	Turner Constru	ction Comr Mich	elle Smith	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref. response to	RFI U-0082, specs 3311	100, 011600:				material inspec	tions will be finali		
•	FI U-0082 stated "TJPA/ rial deliveries of each sul				part of the QA	/QC manual, to	be issued by TJI	'А.	
material inspection trade subcontract materials have be	DPW or Turner have an element on protocol in place to all tors to verify and docume en inspected by TJPA/I ferenced specifications?	low W/O and the ent that the DPW or Turner							
-0090		ire Service Connection		Closed	02/01/2011	02/11/2011	02/03/2011	Potential	ly
From: Webcor Co	onstruction LP	Nhi Tran	To: Turner Construction Compar	n Michelle Smith	Answered By	Turner Constru	ction Comr Kevir	1 Chiu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet	: U-3108 and attached sk	ketch and photos			VOID.				
Lateral @ 46 Min valve (which is lo new 6in fire line t (See attached ph	for connection of the 6in and St. was to leave the elected at FOC) in place a to the downstream side conto and sketch). This places. Tom Farhnam and	existing 6in gate and connect the of the old valve lan was proposed				93, 46 Minna 6ir Lateral at STA	n FS Water & 1in 5+17 Tie-In.	Copper	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

determine when AWSS improvements, other than the

improvements required to abandon existing AWSS mains on First and Beale streets, are required to be

Please be sure that this RFI remains open in

complete."

937 of 1053 11/05/2013 10:53 AM

Time:

Job: 30100

20100 Transhay Transit Contar Project

			30100 - 116	ansbay mans	n Center	Project			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	Car Park	aide the beautiful							
(under the sidewa	meowners fire line in alk).	side the basement							
put a hole through would need to be	quire coordination wit in their foundation. La provided for the wall is hole where the exist ment.	yout and a detail penetration, as well							
Please provide dir	rection on how to pro	ceed.							
-0091	SSMH #301 Lo	cated in Crosswalk at Natom	na STA 0+81.72	Closed	02/01/2011	02/11/2011	02/24/2011	Potential	ly
From: Webcor Cor	nstruction LP	Nhi Tran	To: Turner Construction Co	mpan Michelle Smith	Answered By	:AECOM Techn	ical Service Eric 2	Zagol	
co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference Sheet	U-3010						1 at the location ed SFDPW Stan		
SSMH #301 is sho 0+81.72.	own to be located in	the crosswalk at Sta					nt) is forthcoming		
Please confirm the crosswalk.	at it is to be located i	n the pedestrian							
-0092	AWSS Schedu	le Restrictions		Closed	02/02/2011	02/12/2011	02/10/2011	Potential	ly 🗌
From: Webcor Cor	nstruction LP	Richard Buellesbach	To: Turner Construction Co	mpan Michelle Smith	Answered By	:AECOM Techn	ical Service Eric 2	Zagol	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
TG04.2R bid. As under "General No note had previous	i has received Bid Ac part of this addendu otes" on sheet U-000 bly placed a constrain dule that the Mission	m, note number 8 18 is deleted. This It on the AWSS			Smith & Kevin 0092 is not co the following la	Chiu - The rece mplete. We requanguage from the	pach Email to Midelived response to uire a final resolute RFI response: g with SFPUC to	RFI U-	

Based on the deletion of this note, it is our understanding

other prior to the Mission Street work but not both.

be complete prior to cutting both the Beale Street and the

1st Street lines. It was acceptable to abandon one or the



SFWD has proposed the new tie-in pipe configuration.

Attachment A)

1. New 6in Fire Service Lateral Tie-in at 46 Minna St (See

- Old existing fire service lateral is to be cut out of the

sketch, and replaced with straight pipe. A new 10in hole is

to be core drilled into the existing basement wall 22in east

of the existing service lateral to incorporate the new 6in

fire service lateral. SFWD will run the new 6in fire service

existing water main up to the gate valve as shown in the

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 938 of 1053 11/05/2013

Time:
Job:

existing pipe and wall penetration to dislodge and free

the existing pipe such that it can be removed by

4. Remove excess fill material to create flat even

3. SFWD to cut and remove existing pipe.

5. SFWD to install and connect new service.

6. Restore wall per SK-U-0005 attached.

surface for link seal type pipe sleeve.

SFWD.

10:53 AM 30100

ımber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
that there is no schedule constrain system modifications other than th proceedures at 1st Street and Bea	e cutting & capping le Street which are			Constructware	······································			
required for construction of the TTo confirm.	C Building. Please			constraint has on U-0008 (re SFDPW BOE	been removed v. 2 01/31/11) a AWSS drawing	construction sequence of the construction sequence of the construction sequence of the construction of the	OTE 8) MA-0,	
				determine who improvements	en AWSS impro required to aba	with SFPUC to vements, other thandon existing AW ets, are required	VSS	
0093 46 Minna 6	in FS Water & 1in Copper V	/ater Service Lateral at STA 5+17 Tie-In	Closed	02/03/2011	02/13/2011	02/07/2011	Potential	ly 🗌
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Michelle Smith	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
o-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference Sheet U-3108, attached information sheets At 11:30am on 2/2/2011, Michelle Zagol (AECOM), Guy Hollins (TJP Minna Property Manager), Dan He Inspector), SFWD water departme	Smith (Turner), Eric A), Rick Bowling (46 Iminiak (SFWD			(Chi Yu, Divis (Eugene Shu) follows:	ion Manager) ar	SFPUC Enginee ld SFPUC inspec on agreed to is as	tor	
(Trinet), Jason Dunne (Webcor Ob Saldana (Webcor Obayashi) met to Service Lateral and 1in Water Sen Minna building.	payashi), and Mario o discuss the 6in Fire			1. Coordinate existing 6-inch SFWD. SFW	with SFWD for fire water servi D to coordinate	the shutdown of t ce. Shutdown by shutdown with SF naterial between	FFD.	



From: Webcor Construction LP

Co-Author:

Nhi Tran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: AECOM Technical Service Eric Zagol

939 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

Number	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
lateral through the hole and Trinet is to provide Link Seals (see attached material information sheets) to seal the space between the new pipe and wall hole. 2. New 1in Copper Service Lateral Tie-in at STA 5+17 (See Attachment B) - Old existing 1in plastic poly pipe is to be cut and plugged with non shrink grout. A new 2in hole is to be core drilled 4in east of the existing 1in service, to incorporate the new 1in copper service lateral. The space between the new pipe and wall hole will be sealed with non-shrink grout. Please advise if this is acceptable. An expedited response is requested.					 Coordinate existing dome Neatly rem existing pipe the existing p SFWD. SFWD to 6 SFWD to 6 	estic water services ove existing fill rand wall penetra ipe such that it cout and remove enstall and connetween pipe and other tween pipe and other services.	the shutdown of to. Shutdown by material between tion to dislodge a can be removed bexisting pipe.	SFWD. the nd free y	
is requested.									
u-0093.1 From: Webcor Cons		Water & 1in Copper W Nhi Tran	ater Service Lateral at STA 5+17 Ti To: Turner Construction Com		02/16/2011 Answered B	02/25/2011 У :AECOM Techr	02/17/2011 nical Service Eric 2	Potential i Zagol	ly

To: Turner Construction Compan Michelle Smith



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

940 of 1053 11/05/2013

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
The revi crossing The vau face of t is an ab	ST: ce Sheet U-3107 revised 12/2 sed drawings show the Joint T through an existing old steam It is a very large structure and he curb of Minna St. Trinet be andoned structure. equests direction for abandonn on of this structure.	Trench alignment MH (Sta 0+85). extends to the north lieves that this vault	SUGGESTION:		Energy. Dem 12/27/10) and documents. Coordinate wi 644-9668 thro	olish as indicated in accordance of the Mike Eurkus ough the TJPA's	gestion:	(415) or the	
J-0095 From : W	Utility Compar ebcor Construction LP	y Contacts Nhi Tran	To: Turner Construction Co	Closed	02/03/2011 Answered By	02/13/2011 Turner Constru	02/04/2011 uction Comr Kevi	Potentia	lly
Co-Author:					-		•		
Sheet Unumbers city. M S numbers currently M Squal utility co	ce Sheet U-0002 General Not -0002 - EXISTING UTILITIES is for contacting various utility of Guared has tried to contact m is and each one has had either or not in service.	lists several phone companies in the ost of these no answer or is	SUGGESTION:		numbers" Please provid		gestion: act most of these recific agencies the		
J-0096	PG&E Conflict	with Sewer Installation a	t Natoma STA 9+50	Closed	02/09/2011	02/19/2011	02/14/2011	Yes	
	ebcor Construction LP	Nhi Tran	To: Turner Construction Co	ompan Michelle Smith	Answered By	:Turner Constru	uction Comr Kevi	n Chiu	
Co-Author:	O.T.		OUGGESTION		ANOWER		\Box		
REQUE Referen	S1: ce Sheet U-3012 and attached	d drawing	SUGGESTION:		ANSWER: 02/14/2011 K	Accept Sug evin Chiu	gestion:		
be a live excavati	7/2011, M Squared encounter PG&E duct bank during their on on Natoma Street STA 9+5 M Squared was unable to con	sewer installation 50. Due to this				6 issued on 2/14			



From: Webcor Construction LP

Co-Author:

Nhi Tran

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

941 of 1053 11/05/2013

Time: Job:

Answered By: AECOM Technical Service Eric Zagol

10:53 AM 30100

30100 - Transbay Transit Center Project

			<u> </u>					
Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
the sewer (See attachment). On 0 Superintendant met with a PG&E PG&E Representative confirmed and is not due to be decommission months. In order for M Squared to continue installation, M Squared is proposite install MH #305 and begin install #305 - perform a temporary connection existing 3' x 5' brick sewer	Representative and that the duct bank is live aned for at least 3 e with the sewering to:		Status	Demolition a 1112 and U- sewer work is completed th all services of abandoned be experienced structures or sewer constr	ric Zagol and Construction Sequence shown on U- 120 lists per sequence order that the set to commence after PG&E has eir Phase I work in Natoma and First St., ut over and existing duct bank is y PG&E. Given the fact that PG&E has construction delays associated with their First Street, the proposed sequence for uction is acceptable.			riocee
M Squared can then perform the ronce PG&E has decommissioned M Squared estimates that the add the temporary tie-in would be app Please confirm how you would like M Squared requests an expedited currently stopped work and awaiting		Coordinate w HP Gas alon demolition. Coordinate w	vith PG&E to aba g Natoma per U vith Verizon to ab on base plans) p	on detail for review andon the existing -1112 and U-1120 pandon existing control to demolition	2-inch) prior to			
U-0096.1 PGE Confi	lict with Sewer on Natoma at	First Workaround	Closed	02/15/2011	02/25/2011	02/18/2011	Potential	ly 🖂
From: Webcor Construction LP	Nhi Tran	To: Turner Construction	Compan Michelle Smith	Answered B	y:AECOM Tech	nical Service Eric 2	Zagol	
Co-Author:								
REQUEST: Reference U-3012 and attached s Per response to RFI#U-0096, M S attached connection detail. Please confirm if it is acceptable t	Squared has provided the	SUGGESTION:			Accept Sug the temporary on ection detial.	gestion:	• M	
U-0097 PG&E Con	nflict with Sewer InstII on Nat	toma at First	Closed	02/10/2011	02/20/2011	02/14/2011	Potential	ly 🔲

To: Turner Construction Compan Michelle Smith



U-0099

From: Webcor Construction LP

Returned Submittal Comments

David Hungerford

Webcor/Obayashi Joint Venture

Page: Date:

942 of 1053

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Following of has confirm between the duct bank of conflict is be and the top.	: Sheet U-3012 on from M Squared's RFI #U- ned in the field that there is a e proposed sewer and the ex on Natoma between STA 9+3 between the bottom of the ele of the new 24" sewer pipe. on of bottom of electrical du the 24" VCP sewer is 11.82'	grade conflict kisting electrical 80 to 9+50. The ectrical duct bank	SUGGESTION:		1112 and U-1 sewer work is completed the all services of abandoned by	120 lists per set to commence a eir Phase I work ut over and exist	Sequence shown of the properties of the properti	the	
concrete el occupied b abandoned a schedule	has also confirmed with PGoncased conduits are occupied y 12KV lines. The duct bank I in the future but PG&E was for this work.	d, 2 being is to be unable to provide							
J-0098	Potholing at Bla	ckrock		Closed	02/10/2011	02/20/2011	02/10/2011	Potential	lv 🗆
	cor Construction LP	Nhi Tran	To: Turner Construction Cor				ruction LP Marin		.,
Co-Author:			Turner Construction Con	npan wichele omiti	7 a.o.vo.ou 2	J. W CDCOL COLIS	raction Er iviann	<i>x</i> 100550	
STA 9+40, confirm the main on Fil Guy Hollins Blackrock i hours to de Please pro locations o	is planning to pothole next we First St STA 1+50 and First alignment and depths of the set St. from Howard to Natom is from TJPA has advised M S is requesting additional pothole termine locations of AT&T favide M Squared information of the additional potholes required depths and sizes.	St STA 2+10 to e new 12" water ha. Squared that holing in the off-acilities in the area.	SUGGESTION:		ANSWER: Can't find ans	Accept Sug			

To: Turner Construction Compan Michelle Smith

Closed

02/16/2011

02/26/2011

Answered By: Turner Construction Comp Kevin Chiu

03/11/2011

Potentially



U-0101

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

Page: Date:

943 of 1053 11/05/2013 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Job:

30100 - Transbay Transit Center Project

Number	Subje	ect		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Autho	or:								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref	Spec section 01 13 10		VOID - See RFI #T-0051			1, Returned S	ubmittal Comment	, for	
the		Distribution (section 1.11) of Submittals shall be returned g:			response.				
Mak Rev	Exceptions Taken ke Corrections Noted vise and Resubmit ected								
"For		s back as "Not Reviewed" or confirm these responses are corporated into the							
U-0100	Minn	a St MH#207 Proposed Relocation		Closed	02/18/2011	02/28/2011	02/22/2011	No	
Fron	n: Webcor Construction	LP Nhi Tran	To: Turner Construction Compan	Michelle Smith	Answered By:	AECOM Tech	nical Service Eric Z	agol	
Co-Autho	or:								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Ref	erence Revised Sheet U	-3009 and attached sketches			Proposed design	ın change is a	cceptable.		
a ca 02/1 the cou MHi STA the inve	ap on the existing water r 17/2011) in Trinet's excavold water main may not led create a dangerous compact. Trinet proposes to A 9+21.87 +/-, as shown cap is outside of Trinet's	207 at STA 9+25.87 will place main (installed by SFWD on vation. Trinet is concerned that be adequately restrained and ondition for their excavation for move MH#207 4 feet west to in the attached sketch, so that MH excavation. The revised MH location is shown on the			AECOM sugge modification.	sts no change	to contract price for	or this	
Plea	ase confirm if this is acce	eptable,							

To: Turner Construction Compan Michelle Smith

Closed

02/22/2011

03/04/2011

Answered By: Turner Construction Comr Daphne Faulkner

02/28/2011

Yes

First St CB#501 Conflict with Existing Utilities

Nhi Tran



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 944 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

unforeseen demotion.

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
o-Author:									
REQUES ⁻	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e Sheet U-3021, attached sk	etch, and USA ticket					A, a deductive CR	will be	
Puring excavation for CB#501, Trinet encountered what appears to be a PG&E vault (shown in plans as EMH 7712), PG&E Duct (Shown in plans as 1- 2" & 4-6" EP), 2-2" steel conduits (not shown in plans), and a concrete shoring wall (not shown in plans). - The 2-2" steel pipe is in conflict with Trinet's installation of CB#501, and will need to be relocated or abandoned to facilitate the installation of the catch basin. Trinet has done their due diligence (2nd and 3rd No Response follow ups) and these lines were not marked by the owner through USA (attached). Trinet requests direction on the relocation/abandonment of these utilities. - Trinet proposes to move CB#501 two-feet north to avoid the conflict with the existing EMH 7712. Please advise if this is acceptable.					Center Project 12/20/10), fur Ramps & De documents, a demolition of and the timin longer require	COM's review of ct 50% construct ther review of the molition Plans Pland AECOM's ur the existing Terrig of such demolied.	the Transbay Tra ion documents (re e Existing Termin roject construction derstanding of the minal "hump" stru tion, CB#501 is n associated 10-inc	ev. al n e cture	
0102	First St. CB#2	06 in Conflict with (F) Su	bsurface Conc. Structure / Duct Bank	Closed	02/23/2011	03/05/2011	03/04/2011	Potential	llv 🗆
	bcor Construction LP	Nhi Tran	To: Turner Construction Compan Mich				uction Comr Daph		- 🗀
o-Author:									
REQUES ⁻	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference	e Sheet U-3009 and attache	d sketch and photo			Pending appringues		A, a deductive CR	will be	
	inet's excavation for replace				.00000.				
	west corner of First St. and New encountered a concrete s				03/04/2011 -	Eric Zagol			
	te encased duct bank not inc Irawings. The existing catch				As datarmina	d during a site v	isit on 3/3/11 with	Trinot	
approxima	ately 30in deep and is const	ructed on top of the			AECOM and	W/O; existing ur	nforeseen condition	ns	
existing co drawing).	oncrete structure/duct bank	(see attached					sidewalk basemer sub-sidewalk bas		
3,	was to Poss Consequently 1	Prince of the contactors			wall for the 1	00 First St. prope	erty, and an aband	doned	
	uests direction on the demo in and the installation of the				create a situa		duct along First S nstallation of a new sive amount of		



Co-Author:

REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

945 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

20100 Transhay Transit Contar Project

ANSWER:

Accept Suggestion:

			00100 11	alisbay Italisi	Date	Date	 Date	Cost		
Number	Subject			Status	Created	Required	Answered	<u>Impact</u>	Procee	
					In lieu of installing a new catch basin barrel to replace existing modify the existing catch basin as follows: Clean interior walls and bottom. Apply 1/2-inch think uniform layer of mortar on interior walls and bottom. Install cast iron trap. Install pipe culvert and connect to MH#207 as shown in Plans. New culvert size and invert shall match existing culvert at catch basin. Use ductile iron pipe if					
					ucpui oi cove	r is less than 3 f				
J-0102.1	Catch Basin #	206 redesign		Closed	04/01/2011	04/11/2011	04/13/2011	Potential	ly 🗌	
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction	Compan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric 2	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
of CB#206: 1) The only s coating is in 3 "Wet Spray N cost prohibiting proposes the data sheets a	pecification section addra 33 31 10 Paragraph 2.1.I Mortar" application. This we for coating only one couse of "SikaTop 123 Pluare attached. Please advar specify an alternate ma	essing mortar I, which specifies a process would be atch basin. Trinet us" mortar - product vise if this product is	Eric Zagol 4/12/2011: 1) S acceptable. 2) MJ DIP for acceptable for culvert runs cover.							
for culvert rur bends are red	esponse directs Trinet to ns with less that 3' of cov quired to construct the cu Mechanical Joint Fittings ceptable.	ver. If 22.5% DI ulverts Trinet would								
J-0103	Natoma St. 4ir	n Water Line Conflict with	MH#306	Closed	02/24/2011	03/07/2011	02/24/2011	Potential	lv 🗀	
	r Construction LP	Nhi Tran	To: Turner Construction				nical Service Eric 2		-,	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 946 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

			Date	Date	Date	Cost	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed

Reference Sheet U-1113 and U-3113

A 4-inch water line runs from east to west on the south side of Natoma from Sta 9+40 to Sta 10+95. At Sta 10+95, the 4-in water line 90degrees into the building at 400 Howard St. This building however, appears to be fed from the existing 8-inch line on 1st St between Howard and Natoma.

Is this 4-inch water lateral at Sta 10+95 on Natoma already abandoned? If not, can M Squared abandon it? It is currently in conflict with the proposed location of MH#306, and is also in conflict with the excavation and shoring for the new 30-inch sewer along Natoma (TG04.1).

It is AECOM's understanding that the existing 4-inch lateral is "killed" (not supplying water) however the "killed" lateral may still be pressurized up to the lateral terminal point at the gate valves located on the south side of Natoma Street at Natoma Street STA 10+95.

Demolish 4-inch water as indicated on U-1112, U-1113 and U-1120.

Prior to demolition:

02/24/2011

- 1. Coordinate with SFPUC inspector to confirm 4-inch lateral is "killed".
- 2. Coordinate with SFPUC inspector to confirm that the lateral is not pressurized and that the 4-inch gate valve at Natoma Street STA 9+40 (intersection with existing First Street 8-inch water main) is closed.

 3. Coordinate with SFPUC inspector and install cap in First Street as shown on U-1120 at Natoma STA 9+55 +/-

U-0104 Natoma St. Temporary Sewer Connections at Sta 9+25 and Sta 7+20

Closed

03/06/2011

03/01/2011

Yes

Answered By: AECOM Technical Service Eric Zagol

From: Webcor Construction LP

Nhi Tran

To: Turner Construction Compan Michelle Smith

Co-Author:

REQUEST:

Reference Sheets U-1112, U-1120, U-3012, and RFI#U-

0096

In order for M Squared to install the new water main on Natoma Street between Sta 6+40 to Sta 10+00, the existing 3'x5' sewer must first be demolished. The 3'x5' sewer cannot be demolished until the new 24-inch VCP has been installed and connected to the existing sewer on First Street at Sta 9+59. Per sheets U-1112 and U-1120, the new 24-inch sewer is to be constructed after the demolition of the PG&E ducts. However, demolition of the PG&E ducts cannot be completed because PG&E has not completed their relocation work

Per RFI#U-0096 (M Squared RFI #009), as confirmed by

SUGGESTION:

ANSWER: Accept Suggestion:

Due to existing PG&E duct in conflict caused by PG&E's delay with First St. Phase I relocations, the two 12-inch temporary HDPE connections as proposed are acceptable as an interim condition until PG&E Phase I work is complete and the existing duct in conflict can be demolished per plans.

Daphne Faulkner - Pending approval by the TJPA, a CR will be issued.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

947 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Cost Created Required Answered Number Subject Status Impact Proceed

PG&E in the field on 02/09/2011, there is a live PG&E duct bank in conflict with MH#305 and the new 24-inch VCP between MH#305 and MH#306, and not due to be decommissioned for at least three months.

M Squared proposes to install a 12-inch HDPE pipe from Sta 9+25 to Sta 9+59, and perform a temporary connection to the existing 3'x5' sewer on First Street. Surveys carried out on the electric duct bank at Sta 9+30 on 02/08/11 shows that the bottom of the Duct Bank is approx. 10.8, meaning a 12-inch pipe will fit. In addition, M Squared proposes to perform a temporary connection (also 12-inch HDPE) at Sta 7+20 from the new MH#303 to the existing 3'x5' sewer. This would allow M Squared to demolish the 3'x5' sewer from Sta 7+02 to Sta 9+59, and allow M Squared to install the water from Sta 6+40 to Sta 10+00.

M Squared estimates the cost for both of these connections is \$20,000.

From: Webcor Construction LP

An expedited response is required to avoid impact to the installation of the water line

U-0105 Natoma St Duct Bank Conflict at Sta 12+92

Nhi Tran

To: Turner Construction Compan Michelle Smith

Closed

03/06/2011 Answered By: AECOM Technical Service Eric Zagol

03/01/2011

Yes

Co-Author:

REQUEST:

Reference Sheet U-1113, U-1122, U-3013 and attached

A pothole on Natoma Street at Sta 12+92 confirmed that the duct bank shown on Sheet U-3013 is in conflict with the proposed 30-inch VCP sewer (see attached drawing).

Per sheets U-1122 and U-1113, the new 30-inch sewer is to be constructed after the demolition of the PG&E ducts. However, demolition of the PG&E ducts cannot be completed because PG&E has not completed their relocation work. Per PG&E's new schedule this work is not scheduled to be completed until 06/31/2011. This would

SUGGESTION:

ANSWER: **Accept Suggestion:**

02/24/2011

Due to existing PG&E duct in conflict caused by PG&E's delay with Fremont St. Phase I relocations, the12-inch temporary HDPE connection as proposed is acceptable as an interim condition until PG&E Phase I work is complete and the existing duct in conflict can be demolished per plans.

Daphne Faulkner - Pending approval by the TJPA, a CR will be issued.



REQUEST:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

948 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

ANSWER:

Accept Suggestion:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
In order for I Squared pro 12+80 to ex	uared's work cannot start M Squared to continue wi oposes the use of 12-inch isting sewer at Sta 13+15	ith their work, M HDPE pipe from Sta 5 (proposed location							
and the duct duct bank po of the 30-inc	. Once PG&E has complet bank is abandoned, M S er specifications and comon by VCP sewer from Sta 12 estimates the cost for this	Squared will demo the aplete the installation 2+80 to MH#602.							
An expedite	d response is required to of the sewer and water lin	avoid impact to the							
U-0106	First St Sewe	r MH#502 Adjustment to A	void Conflict w/ (E) PG&E Duct	Closed	02/25/2011	03/07/2011	02/28/2011	Potentia	ily
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compa	an Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In order for PG&E duct adjusted the inches to the is still aligne brick sewer, run is unaffe	Trinet to avoid a conflict valong the west wall of the south end of the MH#50 e east (as shown in attacted to incorporate the connand the alignment of the ected by this change. Trin	with the existing eir excavation, Trinet 12 structure by 7 hed sketch). MH#502 nection to the existing new 24-inch VCP net will adjust rebar as			Standard #87 plan for the consewer. Provinces DPW S	,184 that shows onnection to the de reinforcing fo Standard. he manhole is b	is based on CCS the minimum rei existing 3'x5' brior connection to 3 eing constructed 2 as shown in De	nforcing ck 'x5' per per	
•	maintain the required spar	· ·			steel at 3'x5' l		d location of reinf nection and 24-in	•	
U-0107	AWSS Cap Pe	ermit Requirements		Closed	02/25/2011	03/07/2011	02/28/2011	Potentia	ily
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Compa	an Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	

SUGGESTION:



the drawings. Trinet also checked the elevation of the

existing SSMH (10-feet north of MH#501) and confirmed

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

949 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transhay Transit Center Project

by contractor.

<u> </u>	30100 - Halisbay Halis	Date Date Date	Cost
umber Subject	<u>Status</u>		vered <u>Impact</u> Procee
W/O would like to confirm that other than any standard permits required for any excavation in the city of San Francisco, there is no additional permit required by any city agency in order to perform work on the AWSS caps.		Per discussions with Michael Smith Si there are no additional permits require construction beyond the standard perr constructing utilities within the public r Notify CCSF SFFD and SFPUC/SFW TJPA's representative in advance the work areas.	ed for AWSS mits for right-of-way. D through the
		work areas.	
-0108 FH Relocation on Beale St	Closed	02/25/2011 03/07/2011 02/28	/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Ser	vice Eric Zagol
Co-Author:			
REQUEST: Reference sheet U-3124 and attached photo See the photo attached. The proposed location for the FH on Beale St at ~Sta 2+20 is in between a driveway for a parking garage and a driveway for a loading dock. Per discussions with Eric Zagol, please confirm the FH is to be relocated to the East side of Beale St as highlighted by the green line on the attached drawing. Please advise.	SUGGESTION:	ANSWER: Accept Suggestion: Construct FH lateral and FH on the Ea Street at STA 2+04 as shown on SK-U	ast side of Beale
-0109 First St Sewer Grade Change To Con	form to Existing 3'x5' Brick Sewer Closed	03/02/2011 03/14/2011 03/03	/2011 Potentially
From: Webcor Construction LP Nhi Tran	To: Turner Construction Compan Michelle Smith	Answered By: AECOM Technical Ser	
Co-Author:	·	•	3
REQUEST: Reference Sheet U-3021, U-3009, and attached sketch This RFI confirms modification discussed in the field by Trinet and discussed with the Design Engineer, SFDPW, and W/O personnel. Trinet's field survey shows the existing 3'x5' brick sewer on First Street to be approximately 11-inches lower than the grade depicted on	SUGGESTION:	ANSWER: Accept Suggestion: Construct MH#502 at First St. STA 4+ U-3021 to match the invert elevation of 3'x5' brick sewer, elevation 6.77 as defield by contractor. Construct MH#501 at First St. STA 4+ U-3021 with an invert elevation of 7.58	-98 as shown on of the existing etermined in the -45 as shown on



Co-Author:

REQUEST:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

950 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
that it is approximately on the drawings. Trinet elevation at 6.77 to mat connection point. The n 11-inches lower than will maintaining the design installed with the invert attached sketch.	installed MH#502 tch the existing brid new 24-inch VCP is hat is shown on the slope of 0.0062. M	with invert ck sewer at the s being installed e drawings IH#501 will be			Construct the elevation 8.67 downward slo 24-inch VCP a of MH#501 at	per RFI U-0100 pe such that the at MH#501 mate elevation 7.58.	ewer from MH#207 0) at a continuous e invert elevation o ches the invert ele	of the vation	
Please confirm that this provide a revised grade MH#207 (Minna St.) to	e for the 24-inch VC				reported 11-in existing 3'x5' b sewer in First hydro cleaning	ches of sedime orick sewer. Ple Street was clea	inet in the field, Tint/sludge/dirt in the ease confirm that and with high velor specification secon.	e existing ocity	
-0110	Joint Preconstruc	tion Survey Requirement		Closed	03/02/2011	03/12/2011	03/03/2011	Potential	lly 🗌
From: Webcor Construction Co-Author:	tion LP	Nhi Tran	To: Turner Construction Com	pan Michelle Smith	Answered By	:Transbay PMF	PC Derric	ck Cooper	
REQUEST: Reference Specification Singer has been coordi properties for W/O's su Pre-Construction survey informed W/O that they Representatives to stop because TJPA will be of instead of having each The surveys are a speciand future subcontractor moving foward.	inating W/O access abcontractors to corby (Spec. 01 15 40, or were instructed by or scheduling the join conducting one over individual contractor cification requirement	s to the adjacent mplete their Joint 1.5). Singer has y TJPA int surveys rall survey, or do them.	SUGGESTION:		adjacent prop	erty interiors. Si	gestion: onstruction survey nger will not be W/O subcontracto		
-0111 I	Minna St. Joint Tr	ench Conflict with (E) 8" e	lbow and thrust block	Closed	03/04/2011	03/14/2011	03/09/2011	Potential	lly
From: Webcor Construct	tion LP	Nhi Tran	To: Turner Construction Com	pan Michelle Smith	Answered By	:AECOM Techi	nical Service Eric Z	'agol	

SUGGESTION:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

951 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Date Date Cost Status Created Required Answered Impact Proceed

Reference drawing sheet U-3409 and attached sketch.

During our excavation for the joint trench on the east end of Minna St. (STA 9+29) Trinet encountered the (E) 8" water main in Trinet's trench line, approximately 1 foot from our termination point. The existing alignment is different from what is shown in the contract drawings. The drawings do not show the water line crossing the joint tranch. The alignment and grade of the water main changed in Trinet's excavation to avoid the adjacent catch basin. A 22.5 degree elbow is located in the center of the joint trench excavation. The elbow is rolled up to accommodate the grade change and there is a thrust block under the footing. Trinet does not believe that it would be safe to excavate under the water main for Trinet's duct bank without having the line shutoff. Extending the PG&E ducts to FOC will also place the connection point for PG&E's extension of the duct bank directly under the water main fittings and elbows. There is adequate clearance to install the 4" gas line above the water main and extend it out to FOC per contract. The top of the water main is 49" below FG at the south side of the joint trench, at the location of the ags line.

Trinet propses to terminate the concrete encased duct bank approximately 5 ft. back from FOC. This would allow adequate room for Trinet to mandrel the ducts after the joint trench is installed without undermining the water main. PG&E could then extend their duct bank under the water main to connect to Trinet's water main. Please advise.

Per request to Jason Dunne (W/O) via email on 3/4/11 please provide the following information for review:

Horizontal (from a known point i.e. FOC along First St.) and vertical location of "top of water main". Horizontal (from a known point i.e. FOC along First St.) and vertical location of water line at "22.5 degree elbow".

Determine if the water main is mechanically restrained with tie rods at each bend in questions.

Approximate size of existing concrete thurst block a the "22.5 degree elbow".

U-0111.1 Minna St Joint Trench Conflict @ Existing Water Line Elbow

Closed

04/28/2011

04/18/2011

04/21/2011

Potentially

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Michelle Smith

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

Please find the attached as built drawing of the Joint Trench @ the intersection of Minna St. and First St. where the (E) 8" W main elbow was encountered.

SUGGESTION:

ANSWER: Accept Suggestion:

Eric Zagol 4/20/2011: Please provide the information requested in RFI U-0111 response or confirm that the existing water line referenced in RFI U-0111 is mechanically restrained.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

952 of 1053

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					Construct Joir	nt Trench to limi	it as indicated in P	lans.	
					Refer to ASI-0 First Street.	005 for the Joint	Trench extension	into	
J-0111.2	Minna St Join	nt Trench Conflict @ Existi	ng Water Line Elbow	Closed	04/25/2011	05/05/2011	04/28/2011	Potential	ly
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:AECOM Techi	nical ServiceEric Z	agol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
requested in R	0/2011: Please provide FI U-0111 response or line referenced in RFI U estrained.	confirm that the			Eric Zagol 4/ response.	26/2011 Procee	ed pre RFI U-0111	.1	
Answer: The w	vaterline is mechanically	y restrained.							
J-0112	Minna St. Join	nt Trench, AT&T Vault and	Conduit Configuration	Closed	03/08/2011	03/18/2011	03/15/2011	Potential	ly
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	mpan Michelle Smith	Answered By	:AECOM Techi	nical Servic∈Eric Z	agol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference She	eet U-3408				AT&T has rev revisions to th	iewed the inforne e Joint Trench	nation and has proto to accommodate the	posed ne	
	011 Joint Trench Pre-Co	9			following:				
	ne configuration of the A the AT&T vault at Sta 3						AT&T regarding 55	5	
inspector was	specifically concerned v	with the east side of				ervice point of co erred Minna St. A	AT&T vault condui	t	
	e all eight 4-inch ducts a e one side (north side) o				penetration lo	cations			
	,						kup of the AT&T \	/ault at	
	ke AT&T to review the d the vault as depicted in						dicating conduit		
drawings and p	provide a revised drawir				alignments. F	Revised Minna S	St. Joint Trench Pla		
make a change	е.				0, ,	•	#3 to address thes associated with RI		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 953 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0113	AWSS Cap on	First St. at Howard		Closed	03/08/2011	03/18/2011	03/10/2011	Potential	ly 🗌
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compan Mi	chelle Smith	Answered By	:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Reference	Drawing No. AWSS MA-5						, AWSS Engine		
On 03/08/2011, M Squared excavated and exposed the existing AWSS line and gate valve on First St. at Howard. Upon inspection of the existing gate valve, it appears that the gate valve does not have lugs on it. This means that M Squared cannot tie back the proposed 10-inch AWSS cap on the AWSS line. Please advise on how you would like M Squared to proceed with the cap installation. An expedited response is requested. AWSS Strong Backs From: Webcor Construction LP Nhi Tran					 03/10/2011 - I Michael Smith record provide	Daphne Faulkne (SFDPW BOE) d response via		er of 11. See	
-0113.1	AWSS Strong	Backs		Closed	03/17/2011	03/27/2011	03/22/2011	Potential	
From: Web	ocor Construction LP	Nhi Tran	To: Turner Construction Compan Mi	chelle Smith	Answered By	:Turner Constru	ction Comr Kevi	n Chiu	
Co-Author:									
REQUEST	Г:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
On 3/16/20 SFWD and AWSS Ca response t back provi Dan H. and would not bell.	RFI #U-0113 011, M Squared met with Dad Michael Smith from BOE to powerk at First & Howard. At the RFI#U-0013, M Squared ded to them. After the stroned Michael S. determined that work due to the diameter of direquests direction on how	to proceed with the s directed in the installed the strong g back was installed, at the strong backs the existing valve			Street RFI No 03/22/11 for h of SFDPW/BC copied into CV "- Proceed wit rods. - A minimum of cap a at Mission/First - Additionally to be increased to the existing at 4' downstream	. 113.1 BOE Re andwritten response DE/Mechanical. V: th installation with the state of 100' of out-of-the state of state of the specified corpy 3 times the visuandoned-in-plant of steel plate.	ncrete thrust bloodlume and enco	I," dated I Smith w was k and tie main n of cap ck shall mpass ance of	
					- Strong backs	s (2) shall be ret	urned to CCSF.'	'	



U-0115

From: Webcor Construction LP

AWSS Cap Work Sequence on First St

Nhi Tran

To:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

954 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

03/07/2011

Answered By:

03/17/2011

03/15/2011

Yes

umber	Subject			Status	Date Created	Date Answered	Cost <u>Impact</u> Pro	
-0114	PG&E Abando	onment Schedule for Nat	oma St. at Second St.	Closed	03/09/2011	03/19/2011	05/07/2011	Potentially
From: Webcor	Construction LP	Nhi Tran	To: Turner Construction Co	ompan Gary Krutsch	Answered By	y:AECOM Techi	nical Service Eric	Zagol
Co-Author:								
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:	
Reference She	eet U-1110 and U-2010				Eric Zagol 3	/18/2011 ***5/5/	11 UPDATE***	
representative PG&E represe had been abar representative this abandonm Per note 2 on	1, M Squared met with a con site at Natoma and entative confirmed that rendoned in the area, and would be unable to propert. sheet U-1110, the service were to be terminated.	2nd Street. The none of their utilities I that the PG&E ovide a schedule for ices for 77 Natoma			terminated, reby W/O, Turn As of 5/4/11, be de-energiz	efer to USR Nos er and PG&E or PG&E estimates ted by 5/21/11.	ervices have been and 13 as end 4/21/11. In that Natoma State Coordinate USF Turner and PG&	reet will Rs for the
date, this work In PG&E's lette	c does not appear to be er to the TJPA regardin erence to work on Nator	completed. g their schedule,			***3/18/11 RE			
utility installation	unable to proceed with on on Natoma St. west mpleted abandonment o	of shoring wall until			sheet U-1110 after PG&E h	, water and sew as completed th oma St. and exis	on sequencing s er work shall cor eir Phase I reloc ting electric duct	nmence ations in
	e M Squared with an up mination/abandonment				been termina Ramps Demo are currently Representativ service condu	ted as part of the olition Project. Ubeing prepared I ve (Turner). The uits and cables t	and 83 Natoma e Existing Termin ISRs for these so by the TJPA's USRs shall indi hat are abandon ated in sheet U-1	nal & ervices cate the ed
					to de-energize effort to re-se	e Natoma St. to quence constru	M has requested the extent possil ction of the sewe lule of abandonn	ble in an er.
					constructed	nfirm the water I	er line could be candoning their f ine can be const	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 955 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
No. Avethory			Turner Construction Com	pan Michelle Smith		Turner Constru	ıction Comr Kevir	n Chiu	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
There are two order to shu Mission to Hispanian caps were significant of the caps with the caps were significant of the caps were significant of the caps with the caps were significant of the caps with the caps w	tdown the AWSS service of loward St. Per the constru upposed to be worked on irm per a conversation in t with inspectors Michael Sr ak (DPW), only one AWSS	A-5, MA-8 Strict that are required to be installed in the AWSS service on First St between St. Per the construction schedule, both and to be worked on simultaneously. The aconversation in the field on simultaneously. The aconversation in the field on sepectors Michael Smith (SFDPW) and sepectors Michael Smith (SFDPW) and made by the SFWD/CCD together with SFR contact Dan Helminiak of SFWD/CDD at (4 4821 for further information" - Michael B. Since SFDPW/BOE/Mechanical dated 03/11/2011 The below response was copied into Const on behalf of Michael B. Smith SFDPW/BOE will response to not behalf of Michael B. Smith SFDPW BOE will response was copied into Const on behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael B. Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smith SFDPW BOE will response to not behalf of Michael Smit						U-0115 I1 11") cations ecision Please 420-	
					RFI.				
-0116	Abandoned 6"	Fire Water Service Thru	100 First St Basement Wall	Closed	03/18/2011	03/28/2011	03/21/2011	Potential	lly
From: Webc	or Construction LP	Nhi Tran	To: Turner Construction Com	pan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ets U-1109 and U-3109					d knowledge of service at STA	existing abandon ~7+35.	ed 6-	
An abandoned existing 6" fire water service lateral was discovered while demolishing the old 8" water main running down Minna St. The 6" fire water service lateral was not shown on the plans and there were no existing water valve covers to indicate the existence of this line. The abandoned lateral penetrates the foundation wall entering the basement to 100 First St at Station 7+36. Please provide direction for plugging the void that will be left after 100 First St management removes the 6" water lateral pipe. A roughly 1ft x ft x 1ft deep square opening					~7+36 was ex 11/19/2010 ar Item No: UA0 Cut and plug a accordance w face of curb a	posed and poth nd included in Si 000-020630A01 abandoned 6-ind ith specification long the North s	e water service at oled by Trinet on ubmittal TG0405- .0 as Pot Hole No ch fire water servi section 02 41 00 ide of Minna St.	024 o. 29. ce in 3.6 at	
	A roughly 1ft x ft x 1ft dee after the fire water lateral p				being request		perty improvemer	ns are	



consistent with discussions with the AT&T inspector in the

field was reflected in the shop drawings. The revised

Webcor/Obayashi Joint Venture

Page: Date:

Protect tree and existing irrigation pipes in place.

956 of 1053 11/05/2013

30100

Time: 10:53 AM Job:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG 30100 - Transbay Transit Center Project

				<u> </u>		<u> </u>			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0117	Natoma St. Fu	ture Hydrant Location at S	ta 11+79	Closed	03/21/2011	03/31/2011	03/24/2011	Potential	ly 🗌
From: Webcor Cons	struction LP	Nhi Tran	To: Turner Construction Comp	pan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
drawing makes refe	vs an 8in x 8in x 6in Natoma at Sta 11- erence to it being u vdrant. Sta 11+79 i arage on Natoma s	+79. The note on the sed as a future s in front of a loading Street. ### A Squared to install	SUGGESTION:		Squared) and for future fire	Dan Helminiacl	/21/11 with Noel (SFWD), const ral connection a	ruct tee	
J-0118 From: Webcor/Obay		•	outing and Termination Points To: Turner Construction Comp	Closed pan Michelle Smith	03/24/2011 Answered By	04/03/2011 / :AECOM Techr	04/06/2011 nical Service Eric	Potential Zagol	ly
REQUEST: Please provide a ro the routing for the F Joint Trench, betwe clear from the plans extending from stub	PG&E Duct stub-ou een First St. and So s in all cases where	econd St. It is not e all the ducts	SUGGESTION:		ducts extendi Please note t	ng from stub-out	gestion: ches clarifying w s terminate (/original duits shown on U nate at "stub out	ginate). J-3410	
J-0119 From: Webcor Cons		AT&T Reconfiguration and	I impact on (E) trees To: Turner Construction Comp	Closed	03/25/2011 Answered B	04/04/2011	03/30/2011 nical Service Eric	Potential	ly
Co-Author:	Struction Li	Colli Azevedo	10. Turner Construction Comp	pan Michelle Smith	Allsweled by	-AECOW Techi	lical Service Elic	Zagoi	
REQUEST: The revised drawing 3/16/2011 show the through an existing vault at Stn. 3+71. AT&T Vault and Co	reconfigured AT& tree well on the ea RFI U-0112 (Minr Induit Configuration ducts running thro	ast side of the AT&T na St, Joint Trench, n) also shows the ugh an existing tree	SUGGESTION:		(Trinet), Dave and Colin Aze conduit penet side of the ea grate and frar	e Olsen (AT&T), evedo (W/O), pro- ration for the 2-4 st to avoid direc- me as required to	gestion: 28/11 with Jack It Dave Gibbons (Aprile 22.5 bent) conduits on the conflict. Remood construct conditional graphs and gevalk curb and g	AT&T) d at e south ve tree uit.	



2 - Please confirm whether the material required to do this

3 - Please provide direction as to how this scope of work

work is available at the City of San Francisco.

should proceed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

957 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
impacted tree	not address relocation an es and the related irrigatio							
review and a	dvise.							
-0120	MH601 Location)	Closed	03/28/2011	04/07/2011	04/05/2011	Potential	
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Compan Michelle Smith	Answered B	y:AECOM Techi	nical Service Eric	Zagol	
Co-Author:			·				Ü	
REQUEST:			SUGGESTION:	ANSWER:	Accept Sug	gostion.		
Street. This lo on Fremont S signal condui By moving the the traffic signalso avoid ha	2 shows MH601 @ Sta 0- cocation is also in the mide Street. USA markings sho ts crossing thru the cente e manhole approx 8¿ non nal conduits would be avoiving a manhole cover in e on how you would like the	dle of the crosswalk with the existing traffic or of the manhole. The conflict with bided and it would a crosswalk.		existing Traff conduit confl	ic Signal ict as shown in S -inch CB culvert	orth to STA 77.56 SK-U-013 attache lateral as shown	d.	
-0121	AWSS Caps at	Beale Street	Closed	03/31/2011	04/10/2011	04/06/2011	Potential	ly 🗌
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Compan Michelle Smith	Answered B	y:AECOM Techi	nical Service Eric	Zagol	
Co-Author:								
REQUEST: 1 - Current bid documents for Trade Group TG04.2R (AWSS system at Mission Street) call for capping of the AWSS system on Beale Street near the intersections with Howard Street and with Mission Street. Because of delays in the bid schedule for TG04.2R, the construction schedule dictates that these caps be completed well before the anticipated start of the TG04.2R field work. Please provide details so as to allow this capping work to be done in advance of the awarding of the TG04.2R scope of work.			SUGGESTION:	Mission stree (Rev No. 1, 'valve has lug valve once e inspector acc	et proposed cap l/31/11) to deterr gs. SFWD to insp xcavated, coordi cordingly. e capping work a bward will be pro	ate valve at the B location as shown mine if the existin pect condition of o	n on M-6 g gate gate sion, and	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 958 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

10-inch DI MJ flat cap

- 1 18-inch x 18-inch x 1-inch steel plate

			3			,			
ımber	Subject			atus	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	ear critical path on the dule. An expedited								
0121.1	AWSS Caps at	t Beale Street	Clo	osed	05/02/2011	05/12/2011	05/05/2011	Potential	ly
From: Webcor Cor	nstruction LP	Colin Azevedo	To: Turner Construction Compan Gary Kr	utsch	Answered By	:AECOM Techn	ical Service Eric 2	Zagol	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
The AWSS valve at Mission and Beale was potholed on 4/29/2011 per response to RFI#U-0121. It was confirmed that the existing valve does not have lugs.					Eric Zagol 5/4 BOE);		chael Smith (SFI	DPW	
_	tails for capping the						ev 1 with change back to (E) pipe		
					Eric Zagol 4/	5/2011 ***4/19/1	1 UPDATE***		
					In response to	the numbered i	tems above:		
					documents fro abandonment/ for the work in	m SFDPW BOE capping scope to Beale St. at Mis	ups of TG04.2R that define the A for Beale Street; ssion St., and MA ale St. at Howard	MA-6 \-10	
							elminiak has conf e available at the		
					Beale at Missi	on Street			
					- 1 10-inch I	OI MJ spigot x G	GH spigot adapte	·	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

959 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Beale at Howard Street 10-inch DI stop collar 10-inch DI bell collar 10-inch DI flat cap Coordinate with SFWD Inspector for materials provided by SFWD. 3. Proceed with this work per direction from TJPA Representative. Coordinate the shutdown of existing AWSS main in Beale St. with SFWD prior to commencing the work. 4. Submit pothole data for review per RFI response provided on 4/5/11 as stated below. ****** 4/5/11 Response Pothole the existing AWSS gate valve at the Beale at Mission street proposed cap location as shown on M-6 (Rev No. 1, 1/31/11) to determine if the existing gate valve has lugs. SFWD to inspect condition of gate valve once excavated, coordinate with SFWD inspector accordingly. Details for the capping work at Beale and Mission, and Beale and Howard will be provided following gate valve inspection.

From: Webcor Construction LP

Colin Azevedo

M Squared Submittals for TG04 Bid Packages

To: Turner Construction Compan Michelle Smith

Closed

04/01/2011 04/11/2011 04/11/2011 Potentially

Co-Author:

U-0122

REQUEST:

SUGGESTION:

Answered By: Turner Construction Comp Michelle Smith

ANSWER:

Accept Suggestion:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

960 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

Date Date Cost Created Required Answered Number Subject Status Impact Proceed

Please confirm the following:

Per previous discussions it has been agreed between the TJPA, AECOM, Turner Webcor/Obayashi and M Squared that material submittals approved for use by M Squared in individual bid packages will be considered acceptable for all bid packages M Squared is working on (TG04.1, TG04.3, TG04.4, & TG04.6).

These submittal include:

TG0434-002 - Excavation & Backfill Samples

TG0434-003 - Excavation & Backfill Test Reports

TG0434-004 - Excavation & Backfill Compaction &

Warning Tape

TG0434-005 - Shoring Plan

TG0434-006 - Backfill Material

TG0434-007 - Water Utilities Distribution Piping & Valves

TG0434-010 - Asphalt Mix Design

TG0434-013 - Noise Mitigation Plan

TG0434-015 - CQC Plan

TG0434-016 - Health and Safety Plan and MSDS

TG0434-017 - SWPPP

TG0434-018 - Debris Management Plan

TG0434-025 - Cast in Place Concrete

TG0434-030 - Labor Rates

TG0404-001 - Sewer Package

TG0404-002 - Filter Fabric

TG0404-003 - Concrete Forming

TG0404-004 - Precast Concrete

From: Webcor Construction LP

TG0404-005 - Precast Concrete Catch Basin Base

Eric Zagol, 4/4/2011: AECOM suggests that the Construction Manager Oversight (Turner) confirms this RFI.

Guy Hollins, 4/5/2011: Confirmed for all submittals listed with the understanding that no deviations from the previously-approved submittal are allowed without the submission and approval of a separate and new submittal request.

Michelle Smith, 4/11/2011: TJPA has no objection to subcontractors using submittals that were submitted by their OWN company and approved for a previous TG04 Utilities Relocation trade package, as long as the application is the same as the application in the previous trade package.

U-0123 Unknown Fire Service @ 85 Natoma

Colin Azevedo

To: Turner Construction Compan Michelle Smith

Closed

04/04/2011 04/14/2011 04/05/2011 Potentially Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

While Excavating to install the water line on Natoma from the shoring wall to 2nd Street M Squared encountered an existing fire service going to 85 Natoma. This service is not shown on the drawings and is not in the specifications SUGGESTION:

ANSWER: **Accept Suggestion:**

SFPUC Customer Service Bureau data shows an active Domestic water, an active Fire water service. and 2 "killed" Domestic water services to 85 Natoma Street.



the plans. The invert of the 14" AWSS is 6.2. (See

attached)
Please advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

package. Design forthcoming potentially to be

Following relocation of the AWSS line, construct 24" VCP sewer per contract documents.

included in TG04.2R.

961 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	•								
as one of the connection (See attached) Please advise on how		o the new line.				th SFWD to con ter line to 85 Na	firm and locate th toma Street.	e	
r lease advise of flow	to proceed.				Provide inform review.	nation on locatio	n, size, and mate	rial for	
J-0123.1	Fire Service @ 8	35 Natoma		Closed	04/11/2011	04/21/2011	04/18/2011	Potential	ly 🗌
From: Webcor Constru	ction LP	Colin Azevedo	To: Turner Construction Compa	an Michelle Smith	Answered By	:Webcor Constr	uction LP Colin	Azevedo	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Please note that on RF service was incorrectly located around Sta 2+3	drawn. The fire				coordinate wit	h SFWD Inspec	oonse to RFI U-01 tor to confirm the to 85 Natoma Str	4" DIP	
M Squared potholed at ductile iron pipe which service for 85 Natoma	is believe to be t	· ·			4" gate valve.	•	nstall 8"x8"x4" tee		
Please advise.					Excavate and the contract d	shore for conne	fire service by SF ction in accordand dinate with SFWD FWD.	ce with	
J-0124	Conflict Betwee	n New 24" Sewer and ex	sting AWSS Line on Beale	Closed	04/07/2011	04/17/2011	04/28/2011	Potential	ly 🗌
From: Webcor Constru	ction LP	Colin Azevedo	To: Turner Construction Compa	an Michelle Smith	Answered By	:AECOM Techn	ical Service Eric Z	agol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
M Squared has confirm on sheet U-3024 is in o on Beale Street. The A but not on the elevation M Squared also shot the manhole. The elevation	conflict with the p NWSS line is shown view on sheet Une elevation of the	roposed 24" VCP wn on the plan view J-3024. e existing sewer			VCP and new 2 4/26/11) and allow for future	SMH as shown d SK-U-0018. C e 24" VCP conne	uct temporary 2-1 on revised U-302 onstruct SMH #70 ection as indicated	4 (rev 01 to d.	



While potholing the Second St. Joint Trench crossing

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Eric Zagol 4/12/2011: Confirm existing abandoned

Page: Date:

962 of 1053 11/05/2013

Time:

Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	<u> </u>			<u> </u>		-		mpace	170000
-0124.1		een 24" Sewer and AWSS	Line on Beale	Closed	07/07/2011	07/17/2011	03/27/2012	Potential	ly
From: Webco Co-Author:	or Construction LP	Colin Azevedo	To: Turner Construction	n Compan Gary Krutsch	Answered By	Turner Constru	iction Comr Jeff T	Γhiel	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response to RFI#U-0124 a design to relocate the AWSS line @ Howard and Beale is forthcoming. Please advise the status of this design.			SFDPW BOE and will b forthcoming ASI. Scheous SFDPW BOE on 7/22/1	Eric Zagol 7/20/2011 Design is being performed by SFDPW BOE and will be tracked and issued via a forthcoming ASI. Schedule will be discussed with SFDPW BOE on 7/22/11. An update will be provided in the RUP OAC on 7/26/11. RFIS U-128.2 and U-124.1 were responded to in J of 2011 and provided temporary solutions to utility conflicts with a full resolution planned to come via future ASI. ASI 21, which addresses these issues was uploaded to Constructware on 3/21/12 by Eric Zagol for design approval. A CR for this work will lissued in the near future.				ility via ues, Eric	
-0125	Precast Catch	Basin Bases		Closed	04/08/2011	04/18/2011	04/13/2011	Potential	ly
From: Webco	or Construction LP	Colin Azevedo	To: Turner Construction	n Compan Michelle Smith	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
M Squared v catch basin. precast base installing the Squared will crushed rock specification	ast in place base per CCS would like to propose the to The catch basin barrel is a and it comes as one sing precast catch basin base place a minimum 6" com a step at the sub base. The propose a state attached.	use of a precast attached to the gle unit. Before with barrel, M pacted level layer of roposed material	SUGGESTION:		approved with The 5 foot cat base section t same dimensi reinforcement place base. Provide a min	conditions spec chbasin barrel s to form a monoli ions, compressi	catchbasin base cified. hall be attached th structure with every strength and PW Standard casyyer of uniform	to the the	
-0126 From: Webco	Existing Brick or Construction LP	Man Hole @ Second and Colin Azevedo	Natoma In Conflict With Join To: Turner Construction	nt Trench Closed n Compan Michelle Smith	04/11/2011 Answered By	04/11/2011 AECOM Techr	04/13/2011 nical Service Eric 2	Potential Zagol	ly
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 963 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
Trinet encountered an existing brick sewer man hole which is in conflict with the joint trench alignment. The manhole is not shown on the plans and had been paved over. The manhole also appears to have been previously abandoned. See the attached sketch and photograph detailing the location of the manhole. Please advise on how to proceed. U-0127 Minna Street Sewer Manhole #201 in Crosswalk				Closed	sewer manhole is filled with slurry grout to 4 feet below rim elevation. Demolish and remove existing abandoned sewer manhole as required to construct the Joint Trench to an elevation 1-foot below bottom of Joint Trench. Backfill and restore in accordance with contract documents. 04/11/2011 04/21/2011 04/13/2011 Potentially					
From: Web	cor Construction LP	Colin Azevedo	To: Turner Constructi	on Compan Michelle Smith	Answered B	y:AECOM Techr	nical Service Eric 2	Zagol	, П	
Co-Author:										
REQUEST: Plan Sheet U-3007 shows MH#201 to be installed in the center of the crosswalk @ Minna and Second Street. The City of San Francisco typically avoids locating manholes in crosswalks, whenever possible, for ADA considerations. Please advise if MH#201 should be installed outside of the crosswalk.			SUGGESTION:		be adjusted of HP Gas mair Plans. In lieu of CCS ADA complai specifications 1. MATERIAL with ASTM "S	due to an existing n. Construct man SF DPW Standar inant cover that r s: L - The cast iron Standard Specific	manhole location granthole at the location of MH cover, provincets the following shall be in accordations for Gray Class 30. The tins	d 4-inch in per ide an g ance ast Iron		

qualification.

2. FINISH- STANDARD FINISH SHALL BE RAW, AS CAST, AND YIELD A MINIMUM COEFFICIENT FOR FRICTION OF .6 OR BETTER IN WET OR DRY CONDITIONS.

strength shall be considered the primary test for

3. CASTINGS - SHALL BE FREE OF BLOW HOLES, FLASHING, GRIND MARKS, AND OTHER SURFACE BLEMISHES.

4. Cover shall incorporate a "pic-hole" for lifting purposes.

5. ADA COMPLIANCY- CASTINGS SHALL HAVE HOLES NO GREATER THAN ½" IN THE DOMINANT DIRECTION OF MOTION, NO VERTICAL RISE OF GREATER THAN ¼", IF THE RISE IS GREATER THAN ½" THE RISE/RUN RATIO NEEDS TO BE 1;2 AND THE MAXIMUM HEIGHT SHALL BE 1/2".
6. Cover shall BE MADE TO FIT EXISTNG FRAMES



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 964 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

					Date	 Date	Date Date	Cost			
lumber	Subject			<u>Status</u>	Created	Required	Answered		Proceed		
					OR be MACHINED to FIT EXITING FRAMES PER SFDPW STANDARD PLAN 87,190. 7. Cover should be MADE of quality EQUAL TO OR GREATER then THE PRODUCTS MADE BY D&L Foundry or Equal, see attached product data sheet.						
J-0128	AWSS Conflict	with Sewer on Fremont		Closed	04/11/2011	04/21/2011	04/19/2011	Potentia	ily 🗌		
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Michelle Smith	Answered By	:AECOM Tech	nical Service Eric Z	agol (
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
A pothole at Sta 0+52 has confirmed that the existing AWSS line is in direct conflict with the proposed sewer on Fremont Street. The drawings show a 4" HPW line at invert elevation 13.0. Measurements taken in the pothole reveal a 14" HPW line at invert elevation 8.4. At this elevation the HPW line is in direct conflict with the proposed VCP sewer. Please advise.					MH #601 and considered as elevation of the	(E) MH in Howa an option. Plea	orary connection be ard Street is being ase confirm the invovand St. (Fremont own on U-3022.	vert			
J-0128.1	AWSS Conflict	with Sewer on Fremont		Closed	04/11/2011	04/21/2011	04/26/2011	Potentia	lly 🗌		
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Michelle Smith	Answered By	:AECOM Techi	nical Service Eric Z	agol .			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
M Squared has confirmed the invert elevation for the existing manhole at station 0+29.5 Fremont St. is EL 6.4 as shown on U-3022. Please adivse.					U-0128.1, cor #601 to existi attached SK-	25/2011: In refernstruct temporaring SMH at STA U-0016 and SK-for future 30" V	rence to RFI U-012 ry 15" VCP from 2 . 0+29.50 as show .U-0017. Construct CP connection as	MH n on			
					Relocate AW	SS line in Howa	ard St., not included potentially to be	d in			
					•	ocation of the AV er contract docu	WSS line, constructuments.	et 30"			



manhole at Sta 0+45 could not be installed with normal

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

965 of 1053 11/05/2013

Date: Time:

: 10:53 AM 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
-0128.2 AWSS Confl	ct with Sewer on Fremont	Closed		07/07/2011	07/17/2011	7/2011 03/27/2012	Potential	lly 🔲	
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compa	n Gary Krutsch	Answered By	:Turner Constru	uction Comr Jeff	Thiel	·	
Co-Author:									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Per the response to RFI#U-0128.1 a AWSS line @ Howard and Fremont Please advise the status of this desi	is forthcoming.	Eric Zagol 7/20/2011 Design is SFDPW BOE and will be tracked forthcoming ASI. Schedule will I SFDPW BOE on 7/22/11. An up in the RUP OAC on 7/26/11.	d and issued via a be discussed with	RFIs U-128.2 and U-124.1 were responded to in July of 2011 and provided temporary solutions to utility conflicts with a full resolution planned to come via future ASI. ASI 21, which addresses these issues, was uploaded to Constructware on 3/21/12 by Eric Zagol for design approval. A CR for this work will be issued in the near future.					
-0129 Sewer Confl	cts @ Second and Natoma		Closed	04/13/2011	04/25/2011	04/28/2011	Potential	lly 🔲	
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compa	n Michelle Smith	Answered By	:AECOM Techi	nical Service Eric	Zagol		
Co-Author:									
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
M Squared is unable to excavate/sh from the existing manhole at Sta 0+0+81 as shown on sheet U-3010. While excavating for the sewer insta encountered several unknown utilitie unmarked and not shown on the cor some of the known utilities are at different elevations than indicated on the dra quantity and proximity of these utilitie excavate and shore between MH#30 at Sta 0+45. Additionally PGE have yet to relocat electric utilities out of the area of the See attached drawings illustrating M findings.	45 to MH#301 at Sta Illation M Squared es which were entract drawings. Also, ferent locations and wings. Due to the es it is not possible 01 and the existing MH e their gas and e proposed MH#301.			information pr and M Square demolition and	ovided and requed to review the document to construction so, and further un	M has reivewed uests a meeting value data, review the equencing shown derstand why ex	vith W/O		
-0129.1 Sewer Confli	cts @ Second and Natoma		Closed	05/02/2011	05/12/2011	06/03/2011	Potential	ilv 🖂	
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compa				nical Service Eric		- 🗀	
Co-Author:			,	·			3 -		
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	aestion:			
Per response to RFI#U-0129 Webco Squared and AECOM met on 4/29/2 why the sewer line between MH#30	011 and discussed				2/2011 Revised a ASI 011 to ac	contract docume			



performed by PG&E.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

966 of 1053 11/05/2013

Date: Time: Job:

encasement 15 feet short of the vault.

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
means and methods. M Squared remove the plates from their investigative pot hole trench on 5/2/2011 for AECOM to further review and understand the existing conflicts. Please provide AECOM's findings from these meetings and provide direction on how to proceed with the sewer installation in this location.					Continue to submit location sewer laterals sewer in accordance via accordance wactive sewer laterals.	on and elevation that the proposed ordance with Key re construction with Specification aterals are show	rface investigation information for ex d connection to ne	isting w that all	
-0130	Sewer Remova	ıl On First Street		Closed	been located 04/15/2011	o4/25/2011	04/21/2011	Potentia	
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Con	npan Michelle Smith	Answered By	:Turner Constru	uction Comr Kevin		,
Co-Author:				•			•		
REQUEST: During the weekly Utility Relocation OAC meeting on 04/12/2011 Eric Zagol with AECOM informed Webcor/Obayashi that new drawings for the removal of the existing sewer on First street had been issued on 04/08/2011. To date Webcor/Obayashi has not received these drawings.			SUGGESTION:		4/18/2011 to	W/O's documen	gestion: R U-022 transmitte t control email for requested informa	ASI	
Flease auvise	e the status of these drav	//ings.							
-0131 From: Webco	Minna St PG&i	E Duct Bank Termination F Colin Azevedo	oints To: Turner Construction Com	Closed	04/19/2011 Answered By	04/29/2011 / :AECOM Techr	04/22/2011 nical Service Eric Z	Potentia agol	ily
Co-Author:									
back 3' outsic Please confire duct bank as	onfirmed Trinet is to termi de the east and west wall: m that the termination po described will fulfill Trine e completion of the duct b	s of manhole 1319. ints of the PG&E t's scope of work	SUGGESTION:		at EMH 1319 1319 East wa	and 1318 are as	ench termination		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 967 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

				<i></i>					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please note terminating the duct bank 3' outside the west wall of MH 1319 will leave the end of the ducts directly under the 24" high pressure water main. This may create an issue with future access for complete the duct bank by PG&E. Please advise.					1319 West ward left 6 feet water, whiche encasement	24-inch			
					1318 North w and left 3 feet encasement	capped			
							hall be considere on at EMH 1319 a		
U-0132 Minna St Sewer Pressure Test				Closed	04/20/2011	04/30/2011	04/27/2011	Potential	ly
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Compan G	ary Krutsch	Answered By	y:AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
he will be red 18" and 24" \	inspector Jason Chin har juesting a pressure test of /CP sewer main. The co	of the newly installed ontract specification					sewers in accorda See specificatio		
and drawings sewer mains	s to do not specify any for	m of testing for the			034010 3.1 E				
Please advis required.	e if pressure testing of the	e sewer main will be			CCSF DPW S Testing per 3		n 319 Low Press	ure	
					333110 1.4 C	:			
					333110 3.7				
					333110 3.8 B				
					333110 3.9				
						Representative dvanced notice	e and SFDPW ins prior to testing.	spector	



2+24 and 1+62 the AT&T inspector, Juan, instructed

Trinet to remove two bends from the duct bank. AECOM

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

"attached...revised AT&T duct routing" for review.

968 of 1053 11/05/2013 10:53 AM

30100

Time: Job:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
U-0132.1	Sewer Main P	Sewer Main Pressure Test			05/07/2011	05/17/2011	05/11/2011	Potential	ly 🗌
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Compa	in Gary Krutsch	Answered By	:AECOM Tech	nical Service Eric	Zagol	
Co-Author:									
REQUEST:		. (1)(0)	SUGGESTION:		ANSWER:	Accept Sug			
Trinet has been advised by Mission Clay (the VCP manufacture) that the hydrostatic test described in the SF Standard Specification Section 319.02 is primarily for cast iron or ductile iron pipe and is not recommended for clay pipe. The National Institute of Clay Pipe and Mission Clay recommend a low pressure air test in accordance with ASTM C 828. See attached copy of ASTM C 828. Trinet proposes using this low pressure air test in lieu of the 10psi hydrostatic test called for in the standard specifications. The low pressure air test will allow test on pipe runs with no service laterals ie: MH501-502, 206-207, 203-204, 202-201. Please advise if this is acceptable. With regards to the three remaining pipe runs that have lateral connections, please provide direction of how to plug the laterals if required to test the main lines.					Kevin Chiu 5 testing newly main lines wit been suggest SFDPW, SFF http://newsite. all_MS2_Test http://veoliaes Waste-Manag Management/ Whether or not devices is still not specificall It is the contr on newly insta with their own protecting new	installed sewer hactive lateral ded within converse within converse with a con	v are links to devipipes, specificall connections that reations between M vpneumatic/Long. emical_grouting.hes/Environmental everting rs decide to utilize these are suggestes to be used foibility to performations.	y for have _Test_B tml -and- e these stions, resting, esting nholes	
U-0133	Minna St Join	Trench Configuration and	d Alignment, Sta 2+24 to 1+62	Closed	04/20/2011	04/30/2011	04/26/2011	Potential	ly _
From: Webcon	r Construction LP	Colin Azevedo	To: Turner Construction Compa	ın Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	_
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
During the ins	stallation of the AT&T du	cts between Sta			Eric Zagol 4	/21/2011 Please	e provide the refe	renced	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

The existing sludge line to the north will be demolished per TG04.6.

969 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
was contacted and Trinet proceeding. routing required by	Attached is the re	out in the field prior to evised AT&T duct							
Please confirm the acceptable.	revised joint trend	ch alignment is							
-0133.1	Minna St Joir	nt Trench Configuration and	d Alignment, Sta 2+24	Closed	04/26/2011	05/10/2011	05/02/2011	Potential	ly
From: Webcor Cons	struction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y:AECOM Techn	ical Service Eric	Zagol	
o-Author:									
	AT&T inspector, wo bends from the approved the layout Attached is the re	Juan, instructed duct bank. AECOM out in the field prior to	SUGGESTION:			Accept Sugg 5/2/2011 Alignme s shown in the sk	nt of the AT&T d	ucts is	
Please confirm the acceptable.	revised joint trend	ch alignment is							
-0134	Water Depatr	ment Tie In Conflict at Howa	ard and Beale	Closed	04/26/2011	05/06/2011	05/02/2011	Potential	ly
From: Webcor Cons	struction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y:AECOM Techn	ical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
of Howard and Bea	the water tie in at the hecause of a college force main. Maned it is the existir	the south west corner conflict with the I Squared has pothole			the existing 1 perform the w SFWD to det line to be rem		e to allow SFWD ction. Coordinat t of the existing s	to e with sludge	
Please advise.					•	s of the existing 1 02 41 00 3.6 A.	10-inch sludge lin	e with	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 970 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
					The connection of the new sludge line to the existing sludge line (south) per TG04.6, shall be made south of the plug.						
J-0135	4" Water Serv	ice @ 1st and Natoma		Closed	04/27/2011	05/07/2011	05/05/2011	Potential			
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric 2	Zagol			
Co-Author:											
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
While excavating for the 6" service connection to the new water line on First Street at Sta2+25 M Squared located an additional 4" ductile iron service that is connected to the existing water main. This 4" line is not shown in the contract documents.					500 Howard S SFWD inspec	t. Coordinate s	ne existing 4" servervice location wing plan showing	th			
	s show this to be a live be tied into the new ma				Kevin Chiu 5 a CR will be is		g approval by the	TJPA,			
There is now r to receive this	no point of connection of 4" service.	n the new water line									
Please advise											
J-0135.1	4" Water Serv	ice at First and Natoma		Closed	05/09/2011	05/19/2011	05/10/2011	Potential	lv 🖂		
	Construction LP	Colin Azevedo	To: Turner Construction Com				nical Service Eric 2		.9		
Co-Author:			Turner Conduction Com	pair cary radioon		-AEOOM TOOM	noar Corviot End 2	-agoi			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
	RFI #U-0135, see atta RFI response.	ched piping plan, as			Eric Zagol 5/ 12" main, 12"	10/2011 With th GV, 6" service a	ne understanding and 1" service are)			
Once approve perform the wo	d M Squared will coordi ork.	inate with SFWD to			already installe service and co	ed, furnish and Innect to 12" ma	install 4" GV and ain per piping pla	n.			
	d response is required a										



From: Webcor Construction LP

Co-Author:

Colin Azevedo

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

971 of 1053 11/05/2013

Time: 10:53 AM 30100

Answered By: AECOM Technical Service Eric Zagol

30100 - Transbay Transit Center Project

Number	Subject	<u>Subject</u> <u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed		
U-0136	Existing Wate	r Bypass @ Howard and F	remont	Closed	05/03/2011	05/13/2011	05/05/2011	Potential	
From: Webcor C	Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
the Water Depa bypass line that (which is to be bypass is not sl has requested t plated so it can	for the water tie in at hartment discovered that t will connect the existi abandoned) to the new hown on the plans. The that the existing bypas to be cut and capped where the in on the new syrof 05/04/2011.	at there is an existing ing water system water system. This he Water department is be excavated and hile they have the line			are incorrect. Based on a fit and AECOM unforeseen exconnects the (to remain) to Street (to be a Howard Street inch main is honce the new into service a existing bypast active Fremon abandoned H situation the Sexisting bypast not connected. Coordinate with define the lime existing bypast street to expecifications. Cutting and constructions of the sexisting service of the sexisting bypast services.	eld meeting with on 5/3/11, SFW visting bypass pexisting 8-inch representation of the existing 8-inch representation of the existing responsible of the existing responsib	ipe and gate valuation in Fremont in Fremont in Howard Street main is abandone from the existionnected to the ain. To mitigate to cut and cap to existing Fremond main in Howard atte existing bypata required to cap.	spector we that Street ard main in w 12- is placed ed, the ng 8-inch the te t main is d Street. ass and the per	
U-0137	Verizon Ducth	pank conflict w/MH 701		Closed	05/03/2011	05/13/2011	05/10/2011	Potential	ly 🗍

To: Turner Construction Compan Gary Krutsch



Subject

Number

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Date

Answered

972 of 1053 11/05/2013

Time: 10:53 AM 30100

Impact Proceed

Cost

30100 - Transbay Transit Center Project

Status

Date

Created

Date

Required

REQUEST:	SUGGESTION:	ANSWER: Accept Suggestion:
M Squared's sewer potholing on Beale (Sta 0+30) has indicated a conflict between an existing Verizon duct and MH# 701 on Howard Street. See attached drawin The ductbank is approximately 18" wide x 18" deep. It 2'4" to the top and it is slurry encased. Verizon underground locators have confirmed that this live and serves Charles Schwabb building south of Hoon Beale Street. Please advise.	bank ng. t is s is	Eric Zagol 5/10/2011 Unforeseen condition, Verizon utility not shown in existing utility survey. As suggested by Noel of (M Squared) during a site visit on 5/3/11 with W/O and AECOM, based on Noel's discussions with Mike Roybal (Verizon Field Engineer) and confirmed by AECOM based on follow up discussions with Mike Roybal (Verizon) and Pam Brown (Verizon), coordinate with Verizon and remove existing concrete encasement from existing duct to expose conduit in area of conflict. As directed in the field by Verizon, remove concrete encasement around duct from area in conflict to adjacent Verizon manhole. Move and support exposed Verizon conduit as required and directed by Verizon to construct manhole. Coordinate with Mike Roybal (Verizon) at (415) 716-6736 such that a Verizon representative is present during the Verizon duct concrete encasement removal, moving and support install. Restore Verizon duct to match existing concrete encasement following completion of sewer manhole.
J-0138 Temporary Telecom Pole Lay	yout in Lot N and N'	Closed 05/09/2011 05/19/2011 05/10/2011 Potentially

REQUEST:

U

Reference attached layout and submittal package#TG0406-014:

Due to the future use of lot N and N' prime, the temporary telecom poles must be relocated. The attached sketch indicates the proposed layout of these poles which has been coordinated with AECOM. Submittal Package#TG0406-014 has been submitted for formal approval of the pole locations.

Please confirm relocating the poles is acceptable.

SUGGESTION:

ANSWER: **Accept Suggestion:**

Eric Zagol 5/10/2011 The pole alignment changes requested by CMGC along with additional requests from Telecommunications companies has required a pole and pole placement redesign. An ASI has been generated for the redesign with a CR forthcoming.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

973 of 1053 11/05/2013

Time:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0139	Existing Water	r Line on Beale in Conflict	with New Sewer	Closed	05/09/2011	05/09/2011	05/10/2011	Potential	ly 🗌
From: Webo	or Construction LP	Colin Azevedo	To: Turner Construction Compar	n Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	e trying to execute the USA				Eric Zagol 5/	10/2011 Please	clarify the quest	ion(s).	
informed W existing wat First and Na capped at F	ne on Beale Dan Helminial ebcor/Obayashi and M Squer line will remain active u atoma is completed and the rirst and Howard as shown	uared that the ntil the water tie in at e existing 8" is on sheet U-3116.			Conflict with N Construction S commence aft abandoned. F	lew Sewer". Pe Sequence order er existing wate	r Line on Beale i r U-1124 Demoli , Beale Street se r main in Beale s nere and what the	tion and wer is to Street is	
	ie in and capping of the ex rrently being delayed by se				is.				
	hen this work will be comp				Also, please o	onfirm the follow	ving:		
running dov department	iak suggested that the exi- vn Howard could be cappe at one of the existing tees nissioning of the existing li	d by the water which would allow			First and Main 2. Is the new 1 Howard Street	streets active? 12" main along l active?	Howard Street be Beale Street nort Beale Street sou	h of	
Please advi	se.				Mission Street				
0420.4	Com (F) Water	an Haward @ Basis		Classid	05/46/0044	05/06/0044	05/04/0044	Datantial	¬
-0139.1	cap (E) water	on Howard @ Beale Colin Azevedo	To: Turner Construction Compo	Closed	05/16/2011	05/26/2011	05/24/2011	Potential	ıy
Co-Author:	or Construction Li	Collii Azevedo	To: Turner Construction Compar	n Gary Kruisch	Allsweled by	AECOM Techi	nical Service Eric	zagoi	
			011005051011		*******		. \square		
Main is acti -New 12" w	ater main along Howard be		SUGGESTION:		cap on the old		nate constructior in at the intersec		
is active.					Coordinate co	netruction of the		Howard	
is active.	ater main along Beale Stre				St. main at the	e intersection of	First St. with SF per SK-U-0003 1/	WD as	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

974 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed

removes the old water line on Beale Street in order to install the new sewer, it is possible that there will be a constant flow of water in the old line.

The suggestion from Dan is to cap the old water line on Howard Street so that When M Squared removes the old line on Beale Street there will be no possibility of water flow. A cap on the line at Howard would also confirm for definite that the old line on Howard and Beale Street is "abandoned".

Please provide direction for capping the existing water line on Howard so the sewer installation on Beale can proceed.

U-0140 Proposed Changes by BLHP to S/L Conduit Run @ 2nd & Minna Closed

05/11/2011 05/21/2011 05/20/2011

Potentially

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Gary Krutsch

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

During a field meeting on 5/10/2011 with Eric Zagol, AECOM and Robert Kawano. BLHP to discuss the alignment of the conduit run from 2nd St to the relocated S/L pole @ Stn 2+89, Robert Kawano asked that a splice box be installed in the sidewalk downstream from the connection point to PG&E¿s manhole. The box would serve as the connection point for BLHP to PG&E¿s power supply from 2nd St for the street light. Because of an existing sidewalk basement, which is located along the north side of Minna, east of 2nd St., it was agreed in the field that the splice box should be placed in the sidewalk just west of the new fire hydrant located @ Stn 0+93. There is already a pocket constructed in the sidewalk basement to accommodate the fire hydrant and Trinet will locate the splice box within this pocket structure. A sketch is attached depicting the proposed alignment of the conduit run and the additional splice box as discussed in the field. Please confirm this is acceptable.

SUGGESTION:

ANSWER: Accept Suggestion:

Eric Zagol 5/19/2011 Per BLHP's request, furnish and install a CCSF DPW precast pullbox, cover, and lid per CCSF DPW Standard Plans and Specifications between the PG&E supply point and the relocated street light pullbox along Minna Street east of Second Street.

Location; confirm that a sidewalk pullbox will fit in the knock out space above the 121-123 Second St. sidewalk basement adjacent to the newly installed fire hydrant prior to construction.

Maintain minimum bends in conduit run per Specification 33 71 00.

05/26/2011



U-0143

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

975 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Com	oan Gary Krutsch	Answered E	3y :AECOM Techi	nical Servic: Eric 2	Zagol	
Co-Author:									
REQUEST: In the response to our RFI # U-0016, Trinet was directed to connect the street lighting conduit on the west end of Minna into PG&E MH #1319 on 2nd St. At a field meeting on 5/10/1 with Eric Zagol and Robert Kawano, to discuss the alignment of the street lighting run for the relocated light on the west end of Minna, Eric advised that PG&E was contemplating a change in the connection point for this conduit run from MH 1319 to MH 1320. MH #1320 is located to the south of 1319 and further west towards the middle of 2nd St. Please confirm the connection point on 2nd St for the street lighting conduit.			SUGGESTION:		ANSWER: Accept Suggestion: ****5/26/11 UPDATE*** Supply point has been confirmed as PG&E EMH 1320. Coordinate connection location with PG&E Field Engineer. Eric Zagol 5/19/2011 Related to Joint Trench changes and PG&E's de-energization of Minna Street after the response to RFI U-0016 was provided, PG&E has revised their electrical plans with respect to EMH 1319 and has indicated that the preferred location for new street light power would be EMH 1320. In accordance with U-3201 Note 7, AECOM considers this RFI as the request to coordinate connections with BLHP and PG&E through the TJPA representative for new street light circuit connections. AECOM and the TJPA Representative are in the process of coordinating Street Light Service Orders with BLHP and PG&E. Once the Service Order is processed the			Street , PG&E DEMH ion for Insiders ins with tive for ind the LHP	
REQUEST: The sidewalk of the typical Sar colored concrefinish. Please	Concrete Special Construction LP concrete @ 555 Mission Francisco sidewalk miete with what appears to provide the concrete special concrete special control of the sidewalk in	Colin Azevedo I (on Minna) is not x design. It is a be a sandblasted ecifications for repair	eplacement @ 555 Mission To: Turner Construction Composition SUGGESTION:	Closed pan Gary Krutsch	05/16/2011 Answered E ANSWER: Kevin Chiu 5 of a dark gra black based square feet of surface of th using a stiff of sandblasted	05/26/2011 3y:Turner Constru Accept Sug 5/18/2011 Sidewa 1y, Hi-con @ 5 lbs concrete finish, wo of silicon carbide e concrete shall lorush, and if nece	orovided. 05/18/2011 uction Comp Kevin gestion: gest	Potential o Chiu ructed carbon per 100 ne ne	ly

05/26/2011



reconnected the pull rope in the conduit run. A sketch of the conduit run, depicting the section replaced, is attached. Please review and advise if one 4" conduit will be adequate from EMH #1320 to the west end of

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

976 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webco	or Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Gary Krutsch	Answered B	y :AECOM Techi	nical Servic: Eric Z	agol	
Co-Author:									
REQUEST: During excavation and shoring for installation of the 18" Sewer main along Minna St., between the (E) electrical vault @ Stn 1+80 (demolished) and (N) manhole # 201, Trinet was unable to save the entire length of the existing PG&E duct bank (currently abandoned), which runs along the south side of the sewer trench. Between stations Stn 0+95 and 1+25 (approx.) the duct bank had veered into the sewer trench and had to be demolished - see attached sketch. Please review and advise.			SUGGESTION:		ANSWER: Accept Suggestion: Eric Zagol 5/19/2011 U-1107 (rev 2 3/16/11) indicates that the existing 6-4" PG&E duct is to be protected in place. 2 of the 6 existing 4" conduits will be utilized by PG&E to provide temporary construction power to W/O Skids 1 and 2 along Minna Street. Mandrel existing conduits east of STA 1+25 to STA 1+70 (where new conduit caps were to be installed pe contract) to confirm that the existing conduits that were to be protected in place have no blockages. Coordinate with PG&E as STA 0+95 is exposed to determine which 2 of existing 4" conduits will be utilized for temporary construction power. Furnish and install 2-4" conduits concrete encased to replace those that were removed during sewer			PG&E) Skids STA lled per at ss.	
REQUEST: After further between EM Anchor & Ho unobstructed	investigation of the existing H #1320 and demolished tope), Trinet found that the disconduit between the two	EMH # 1355 (@ re is only one o manholes. The	Demolished EMH #1355 To: Turner Construction Co SUGGESTION:	Closed mpan Gary Krutsch	06/14/2011 Answered B ANSWER: Eric Zagol 6 conduit pack 2. Mike Baln confirmed the	06/24/2011 y: AECOM Techi Accept Sug 5/14/2011 PG&E age to provide te	plans to use the emp power to Skids notified and has estructed conduit is	Potentia agol xisting s 1 and	lly
unobstructed conduit is the one that already had a pull rope in place. Trinet had demolished a section of this conduit during excavation for sewer MH # 201 because it was in conflict with the shoring. Trinet replaced the damaged section (approx. 8 LF) on Saturday 6/1, and							ure temp power se	rvice.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 977 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
demolish	ed EMH #1355.								
-0144	PGE Vault conf	lict with 24" VCP on Beale		Closed	05/17/2011	05/27/2011	05/20/2011	Potential	ly 🗌
From: We	ebcor Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By:	AECOM Techr	ical Service Eric Z	Zagol	
Co-Author:									
REQUES	ST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
PG&E confirmed the location of the inside of the east wall of PG&E manhole 1702 at Howard and Beale Street. Allowing for a 12" thick wall, the vault will be in conflict with the proposed alignment of the future 24" VCP, even with moving the alignment 1' further east as directed in RFI U-0124. The conflict could be avoided by moving the alignment another 6" further east. However this will cause a conflict between manhole #701 and the existing 14" AWSS. Additionally the Verizon duct bank conflict increases(RFI#U-0137). Please advise.				5/18/11 with Ja (MSquared) the MH outside wa unknown. Adjust location sewer alignmen for the 24" VCF the existing PG conflict with the Note, the exist of Beale Street	son Dunne (We exact location III and the existing and the existing sof MH#701, Met east as requivered in the existing 14" A long AWSS line STA 1+10.	will be abandoned	Carthy G&E ently and ioned) avoid n		
-0144.1	PG&E Vault co	nflict with 24" VCP on Beale		Closed	06/30/2011	07/10/2011	07/01/2011	Potential	ly 🗍
From: We	ebcor Construction LP	Jonathan Flaming	To: Turner Construction Com	pan Gary Krutsch	Answered By:	Turner Constru	ction Comr Kevin	Chiu	- Ш
Co-Author:				•			•		
	ST: use to RFI U-0144, please note the following:	e that M Squared	SUGGESTION:		ANSWER: Kevin Chiu 7/ information.	Accept Sug 1/2011 RFI doe	gestion:	ditional	
	VCP and future 24inch VCP valve at Sta 0+70.	vill clear existing							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

978 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
J-0145	Sludge Main C	Conflicts with Existing Utilities		Closed	05/17/2011	05/27/2011	05/18/2011	Potential	ly 🗌
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
main on M existing uti possible to	e attached pothole results for ission Street. Due to the qualities, and utility vaults/man install the new 12" sludge shown on the contract drawi	antity and location of holes it will not be main on Mission				ia the USA tick	indicate which ut et and or those i		
Please adv	vise.								
J-0145.1	Sludge Main C	Conflicts with existing utilities		Closed	05/18/2011	05/28/2011	06/07/2011	Potential	ly 🗌
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	
Co-Author:									
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Squared hamarkings a contract dr	e to RFI# U-0145, see attac as marked what utilities wer and what ones have been lo awings. There are also sev be identified.	re located via USA ocated via the				a ASI 012 to ac	l contract docum Idress sludge line		
J-0146	Proposed Pave	ement Reconstruction Plan for	Minna Street	Closed	05/17/2011	05/27/2011	05/23/2011	Potentiall	ly 🖂
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	, _П
Co-Author:								-	
REQUEST	`:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
pavement	I the attached sketch detaili reconstruction plan for Minr eets. Please review and ad	na St., between 1St			sketch provide		M has reviewed to following comme uirements:		
					on Demolition prior to final st Provide FULL St. West of the Second Street requirements [superseding I SECTION 32	Plans have been reet restoration street restoration commended CDSM shoring in accordance (DPW ORDER DPW ORDER 112 17)	on, curb to curb, g wall (~STA 2+2 with Contract	er Plans in Minna (5) to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 979 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Construct Driveways in accordance with DPW Stnd. Plan 87.171 Construct Joints for Concrete Pavement Base in accordance with DPW Stnd. Plan 87.174 Per Contract specification SECTION 32 12 17, reconstruct curb returns at Second and Minna Per DPW ORDER NO. 178,940 (superseding DPW ORDER 176,707) Regulations for Excavating and Restoring Streets in San Francisco Section 9.4 B. Excavation affecting curb returns, stated as follows: 1. Any excavation (including trenchless technology) encroaching upon any part of an angular corner requires the installation or reconstruction of curb ramp(s) at the affected corner to current standards by the Permittee. Permittee's are encouraged to contact BSM Inspection Division to determine if curb ramps within a project are compliant or must be replaced at least 45 days prior to the commencement of any work. 2. Curb ramps must be constructed in accordance with current City standards (Drawing Nos. 55,017 Rev. 3; 55,017.1, 55,018 Rev.3; 55,018.1; 55,018.2; 55,018.3 "Exception to Standard Curb Ramps") (Appendix 5). 05/27/2011 U-0146.1 **Proposed Pavement Reconstruction** Plan for Minna Street Closed 06/06/2011 05/27/2011 Potentially From: Webcor Construction LP Colin Azevedo Answered By: AECOM Technical Service Eric Zagol To: Turner Construction Compan Gary Krutsch Co-Author: SUGGESTION: REQUEST: ANSWER: **Accept Suggestion:** *** 5/31/11 Revision *** Attached, please find a sketch detailing Trinet's revised

Attached, please find a sketch detailing Trinet's revised pavement reconstruction plan for Minna St., between 1St to 2nd Streets, which incorporates Balfour Beatty's request that Trinet stop the new pavement section 5' north of centerline of the CDSM shoring wall (2' north of demarcation line).

Restore entire width of Minna street using concrete road base and ACWS curb to curb in accordance with Contract drawings and DPW Order No. 176,707 (and latest revision 178,940) Section 11.

5/27/11 Response:



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

980 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Please provide BBIIs traffic control plan and construction logistics plan for Minna St. during pretrenching and CDSM shoring wall construction. AECOM's specific questions are as follows: 1. What portion of Minna St. will be maintained for vehicular traffic during pre-trenching and CDSM wall construction? Please provide dimensions from face of north curb along Minna St. 2. Is a traffic barrier (k-rail or other) planned to be installed along Minna St. during pre-trenching and CDSM wall construction? Provide location, dimension from face of north cur along Minna St. 3. If a traffic barrier is planned, what is the schedule for the installation? 4. Once pre-trenching is complete will any of the pretrenching trench area be restored and used for vehicular traffic? 5. Once the CDSM shoring wall is constructed will the traffic barrier move south and the vehicular area be widened? If so by how much? Please provide a dimension from the face of north curb along Minna St. This information is critical in order to provide a responses to this RFI as well as RFI U-147 and U-148 in an effort to determine how RUP will restore Minna St.; crowned or sloped, and how the Minna St. restoration conforms to the future Transit Center Minna St. design. U-0146.2 Pavement Reconstruction Plan for Minna Rev 2 Closed 06/02/2011 06/12/2011 06/07/2011 Potentially

From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Gary Krutsch

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

Please find attached a revised (Rev2) pavement Reconstruction Cross Section drawing for Minna St., which details Trinets understanding of the Engineer's latest response to RFI#U-0146.1 and RFI#U-0147. Please

SUGGESTION:

ANSWER: Accept Suggestion:

Eric Zagol 6/7/2011 Street restoration detail is acceptable with the following corrections:

1. The southern extent (limit) of concrete base and



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

981 of 1053 11/05/2013

Date: Time:

Job:

11/05/2013 10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed	
•	nt reconstruction can	proceed per the					nd First Street sh			
attached detail					based on U-5101 Detail 6 and the limit of excavation required to do perform the Demolition and New utilities work in Minna Street. Conform to final saw cut lines as indicated in Detail 6.					
-0147	0 .	_	Priveways for 575 Mission Building	Closed	05/27/2011	06/06/2011	06/01/2011	Potential	ily	
From: Webcor C	onstruction LP	Colin Azevedo	To: Turner Construction Compa	n Gary Krutsch	Answered By	AECOM Techi	nical Service Eric	Zagol		
Co-Author:										
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:			
building, are dep adjacent top-of-of-of-of-of-of-of-of-of-of-of-of-of-	eways entering the 5 pressed between 2 ½ curb and sidewalk grag the driveways. This ce of repeated overlated in a curb height in ndard of 6 inches. The Minna along the 575 to 4 ½ inches below	" to 3" below the ades - see attached so condition seems to ying of Minna street, many areas far less he street grade along Mission building			existing curbs Minna St. in ac DPW Order No Section 12 to a curbs and driveways	and driveways ecordance with c. 176,707 (and match existing eways shown c along Minna S	re pavement along the north so Contract drawing I latest revision 1 flow line elevation U-1001. 6-inclusive twill be reconstraint Center Projection	side of gs and 78,940) ns at n curb ructed at		
the Engineer in I roadway with fini grade. This is co The new roadwa exposed curb he which is conside San Francisco s (plan # 87,171).	RFI #U-0146, to cons ish grade at curb line on sistent with City start of grades will result in hight at the driveways rably deeper than the tandard plans for drively lit will also not be possed driveways without	6" below top-of-curb indard plan # 87,169. a 3" to 3 ½" of to 575 Mission, e 1" called for in the reway construction								
Please review ar	nd advise.									



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

982 of 1053

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST: Please provide a pavement reconstruction drawing, or typical cross section detail, for the west end of Minna St from Stn 2+15 to 2nd St. Trinet had planned to reconstruct the street in this area from curb to curb. We find however, that there is a grade difference of approximately 6 inches between top-of-curb on the north side of the street and the south side, with the south side being at the higher grade. The construction detail approved in RFI #U-0146 (Trinet #094) cannot be utilized in this area, because the street already has a cross slope of approx. 2% from south to north.			SUGGESTION:		ANSWER: Eric Zagol 6/	Accept Suge 7/2011 See resp	gestion: ponse to RFI 146.2	2	
-0149	MH#701 Conflic	cts with existing utilities Colin Azevedo	To: Turner Construction Comp	Closed	05/27/2011 Answered By	06/06/2011	06/09/2011 nical Service Eric Za	Potential	ly
Co-Author:	or construction in	Oomi / (20vodo	10. Turner Construction Comp	dair Gary Riussch	Allsweled by	ALCOW TECH	iicai Servici Liic Zi	agoi	
constructed Several ben and these b the presenc move MH#7 To install th to MH wall), we will have diameter of	VSS line west of MH#701 w I thru the roof of the existing ands were used in the AWSS bends included lugs and tie tee of these tie rods and fittir 701 any further west. the new 24" VCP in a straigh and in order to get by the of the to pour the pipe wall and 2 the pipe into the west wall tise on how to proceed.	g 3x5 sewer. If line construction rods. As a result of ngs we can now not t line (perpendicular existing PGE MH of the internal	SUGGESTION:		accordance wi joint) to allow the PG&E MH and attached SK-L	th ASTM C425 for 6" of deflection of connect to MH J-0019.	VCP pipe joints in (max 1.8 degrees on to avoid the exi #701 as shown in lection will allow the	sting the	
-0149.1 From: Webo	MH#701 Conflictor Construction LP	cts with existing utilities Jonathan Flaming	To: Turner Construction Comp	Closed oan Gary Krutsch	06/30/2011 Answered By	07/10/2011 Turner Constru	07/01/2011 action Comr Kevin	Potential Chiu	ly
Co-Author:									
M Squared	to RFI U-0149, please not confirms that 6inch deflecti linch pipe to be clear of the	on of the VCP will	SUGGESTION:		ANSWER: Kevin Chiu 7, information.	Accept Sugg	gestion:	itional	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

983 of 1053 11/05/2013

30100

Time: 10:53 AM

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
J-0150	Proposed Cor	rection to Field Condition	d Condition Report 40C Closed 05/31/2011 06/10/2011 06/01/2011 Potentially	у					
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction C	Compan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please see the attached detail from Trinet Construction Inc for their proposed solution to mitigate the incorrect installation of CB203 identified in Field Condition Report 40C. Please advise if the proposed solution is acceptable.					reviewed and acceptable. C Trinet propose CR40C. Cons such that it is via removal of	approved by SF construct catch I ed construction of truct the clean of accessible from the grate . Cootion with DPW I	posed solution had FDPW BOE and it basin as shown it detail attached to but on the cast iro above for maintordinate inspection BCM inspector the	n the o on trap enance on	
J-0151 From: Webcor	Additional Sev	wer Lateral Connection for Colin Azevedo	100 1st Street To: Turner Construction C	Closed	06/02/2011 Answered By	06/12/2011	06/08/2011 nical Service Eric	Potentially	у 🗌
Co-Author:			Turnor Concuración C	ompan Gary radioon	,	ALCOM TOOM	noar Corviot Eno	Lagoi	
100 1st Street new 24" sewer located at sta. rear of the buil plans and ther existence of a sidewalk and a a 4" cast iron v confirm Trinet main on Minna with existing c	covered an additional set building which was not read and services a si lding. This lateral was rewas no vent in the sic lateral. Trient potholed a 4" cast iron lateral, a 4 vent pipe capped 2' belo is to tie the lateral into a Also, please advise wast iron trap and vent picurrent DPW standards.	connected to the ketch. The lateral is ngle toilet and the not shown on the lewalk to indicate the the lateral in the " cast iron trap and bow grade. Please the new 24" sewer what is to be done pe assembly which	SUGGESTION:		General Note are no active sewer prior to Please provid lateral and the pipe for review	12, contractor visewer lateral consewer demolition the the elevation of exists.	dance with U-300 was to verify that nnections to the	there existing wer vent	
J-0151.1 From: Webcor	Additional Sev	wer Lateral Connection Jonathan Flaming	To: Turner Construction C	Closed Compan Gary Krutsch	06/29/2011 Answered By	07/09/2011 AECOM Techr	07/05/2011 nical Service Eric	Potentiall y Zagol	у 🗌
Co-Author:									
	v-up to the request by th //O RFI #U-0151 (Trinet		SUGGESTION:		ANSWER: Eric Zagol 7/ 151.1:	Accept Sug 5/2011 In refere	gestion:	and	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 984 of 1053 11/05/2013

Time:

Cost

Date

10:53 AM 30100

30100 - Transbay Transit Center Project

Number Subject Status Created Required Answered Impact Proceed

additional information relating to the 2nd sewer lateral connection for the 100 1st St building. Trinet also clarifies the issue of the existing 4" trap on the line, which was raised in the original RFI.

The sewer lateral is located @ Stn. 7+09 and the invert elevation of the 4" cast iron sewer lateral pipe at face-of-curb is 14.6'. The elevation for the top of the new concrete encased ductbank @ Stn 7+09 is 13.85'. The sewer lateral was therefore not in conflict with the new joint trench utilities.

With regards to the existing 4" trap on the line, Trinet checked with the SF Plumbing department which adviced that a 4" cast iron trap was adequate for a 4" sewer lateral. The existing trap was therefore in compliance with the SF plumbing code. Trinet advised Jason Chin of this in the field and he agreed that the trap did not need to be replaced.

The 4" cast iron vent pipe for the trap did not extend to street level but was capped-off approximately 18" below grade. Per field discussions with Jason Chin, Trinet extended the trap vent piping to grade and installed a street vent frame & cover in the sidewalk.

- 1. Reconnect existing lateral to new 24" Minna St. sewer in accordance with SFDPW Standard Plan 87,196.
- 2. Extend fresh air inlet and air inlet cover to existing sidewalk grade.

U-0152 Alternate Manhole Testing Method

From: Webcor Construction LP Colin Azevedo

Co-Author:

REQUEST:

Spec section 03 40 10 3.1 E directs the contractor to test all manholes hydraulically by exfiltration testing. M Squared proposes the use of the vacuum method of testing manhole sections instead of the above method (See attached)

This vacuum method is in accordance with ASTM C1244.

Please advise if this is acceptable.

Closed 06/02/2011 06/12/2011 06/07/2011 Potentially
To: Turner Construction Compan Gary Krutsch Answered By: AECOM Technical Service Eric Zagol

SUGGESTION: ANSWER: Accept Suggestion:

Eric Zagol 6/7/2011 Vacuum method in accordance with ASTM C1244 is acceptable for testing of sewer manholes.



Co-Author:

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

985 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject	Subject			Date Created	Date Required	Date Answered	Cost Impact	Proceed
J-0153	Concrete Slab	and Rail Ties Conflict with	Sludge Line on Howard	Closed	06/03/2011	06/13/2011	06/21/2011	Potential	ly 🗌
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Compa	an Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric	Zagol	
Co-Author:									
REQUEST: While potholing for the sludge line alignment along Howard Street between Beale and Main at Sta 18+00 and Sta 19+42 M Squared discovered the presence of wooden rail ties and concrete slab (see attached photos). These are possibly the same ties and slab that M Squared encountered while installing the water line on TG04.3. They are in direct conflict with the proposed location of the new sludge line along Howard Street. Please advise.					further unders slab and wood and Fremont concrete and 12" sludge line Eric Zagol 6/ determine the	pdate *** ow up discussion transfer of the eden rails ties foustreets TG04.3) wooden rail ties e. /8/2011 Pothole extents (souther and wooden rail	ns with W/O and extents of the conund further West, remove and dispass required to conunct at STA 18+00 to the conunct and northern) I ties. Submit possible statements of the conunct at STA 18+00 to	crete (Howard pose of postruct	
J-0154	Electrical Serv	rice for Street Lights on Nat	oma	Closed	06/08/2011	06/18/2011	09/01/2011	Potential	
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Webcor Const	ruction LP Chris	s Lotti	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
lights on Naton conduit has be trenching proce As a result the power. There	120 the electrical servic ma is to be demolished, en exposed through the ess on First, confirmed existing street lights or are no details provided power to these street lighter.	see attached. This e investigative dead and remove. Natoma are without in the plans for	Eric Zagol 6/20/2011 Natoma spower renewal to be addressed forthcoming.	9	Street Light P		1 -Renew Naton SI No. 014) [3010 011.		
Please advise.									
J-0155		Place Concrete Testing		Closed	06/20/2011	06/30/2011	06/28/2011	Potential	у 🗌
From: Webcor	Construction LP	Jonathan Flaming	To: Turner Construction Compa	an Gary Krutsch	Answered By	Turner Constru	uction Comp Kevi	n Chiu	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

986 of 1053 11/05/2013

Time:

10:53 AM Job: 30100

30100 - Transbay Transit Center Project

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug			
The AWSS Specification section 033 Concrete 1.5 C (Quality Assurance) concrete testing will be performed by by the TJPA.	states that the				JPA employed te esting per 03300			
However, 03300-10, 3.9 B (Field Quathat the concrete testing will be performed and Inspection Agency.	ormed by the City			Michael Smith testing perforr SFDPW's tes	sting by			
Please advise who will be preforming concrete testing.	g the cast in pace			(see attached). 			
-0156 Sink Hole un	der road base at MH#701		Closed	06/21/2011	07/01/2011	06/22/2011	Potential	ly 🗌
From: Webcor Construction LP	Jonathan Flaming	To: Turner Construction Compa	in Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
While excavating for MH#701 M Squ appears to be a large void under the to the west wall of the MH#701. We be approximately 3' wide and 12' lon	street base adjacent estimate the void to					seen existing cor he Relocation of		
hazard as the street base may collar the future. Please advise how you would like to	ose at some point in					sting pavement be sink hole and co		
riease auvise now you would like to	proceed.			backfill with a	sand cement sluccordance with	ermined to be securry and restore SFDPW Standa		
					resentative. Re	inate repair of sin pair work to be p		

07/08/2011



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 987 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

qualification.

2. FINISH- STANDARD FINISH SHALL BE RAW, AS

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
From: Webcor	Construction LP	Jonathan Flaming	To: Turner Construction Compan	Gary Krutsch	Answered By	:AECOM Techi	nical Servic: Eric Z	Zagol	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
This RFI is a follow-up to discussions in the field with AECOM and the SFDPW Inspector and Trinet, regarding Trinet's inability to perform a pressure test on sewer manholes 501 & 502 on 1st St. due to field conditions. MH #502 is constructed around the existing 3x5 brick sewer on one side (per SF Standard Plan #87,184) and Trinet has no means of plugging the brick sewer effectively to withstand a pressure test. In the case of sewer MH #501, the original design was similar to MH #502 and a pressure test would not have been possible. The revised design (see attached drawing)					•	les #501 and #5	ed. Pressure test 02 are not require		
been possible includes a ten extending sou existing 3x5 b pipe stub is al sealed with ar perform a pre	•	ee attached drawing) PVC pipe stub d connecting to the f the temporary 24" efore cannot be would be required to e structure. Il not be required for							
-0158	MH #301 Loca	tion		Closed	07/15/2011	07/25/2011	07/20/2011	Potential	lly 🖂
	Construction LP	Colin Azevedo	To: Turner Construction Compan				nical Service Eric Z		y
o-Author:			Tarior Conduction Compan	Cary radioon		-71200111 100111	nodi Gorviot Eno E	-agoi	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
During our sewer work at 2nd and Natoma M Squared discovered that the Telecom Vault shown on the drawings is in fact significantly larger in the field than is shown on the plans. In order to be able to shore for MH#301 construction M Squared has had to move the location of MH four (4) feet east along Natoma. As a result the jack and bore alignment is now a few inches south of what is					Eric Zagol 7/ acceptable. Since the adju the crosswalk Standard MH	ustment pushes path of travel, i cover, provide a	ments proposed a the MH and cove n lieu of CCSF DF an ADA complaina g specifications:	r into PW	
shown on the plans. Please confirm that these adjustments are acceptable.				with ASTM "S Castings" Des	tandard Specific signation A 48, 0	shall be in accord cations for Gray C Class 30. The tins the primary test fo	ast Iron sel		



north side of Mission St also extends 7' deep.

Please advise on how you would like to proceed.

See attached pothole findings.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

988 of 1053 11/05/2013

Date: Time:

Time: 10:53 AM Job: 30100

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
umber Subject		Status	CAST, AND Y FRICTION OF CONDITIONS 3. CASTINGS FLASHING, G BLEMISHES. 4. Cover shall purposes. 5. ADA COMF HOLES NO G DIRECTION G GREATER TH	IELD A MINIMUME .6 OR BETTEIS. 5 - SHALL BE FISEIND MARKS, incorporate a "INPLIANCY- CAS" IREATER THAN OF MOTION, NOTION, NO	JM COEFFICIEN R IN WET OR DR REE OF BLOW H AND OTHER SU pic-hole" for lifting TINGS SHALL HA 1 ½" IN THE DON O'VERTICAL RIS RISE IS GREAT ATIO NEEDS TO T SHALL BE 1/2"	T FOR RY HOLES, HRFACE MINANT E OF ER BE 1;2	Proceed	
				6. Cover shall OR be MACH SFDPW STAI 7. Cover shou GREATER the	BE MADE TO INED to FIT EX NDARD PLAN 8 Ild be MADE of en THE PRODU	FIT EXISTNG FR ITING FRAMES I	AMES PER O OR D&L	
-0159 Unknow	n Concrete Structure In Conflict	with Sludge Line on Mission	Closed	07/28/2011	08/07/2011	08/16/2011	Potential	lly 🗌
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Com	pan Gary Krutsch	Answered By	:AECOM Techi	nical Service Eric 2	Zagol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
While potholing at the locations drawing M Squared discovered concrete wall under the parking excavated both potholes 7' dee appeared to be continuing deep is in direct conflict with the prop studge main on Mission Street	what appears to be a strip. M Squared and at that depth the wall er. This concrete structure osed location of the new			sections 0008 locations and	10 and 020630, findings for all p	ordance with spec please submit for potholes performe h the Sludge FM.	r review	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

989 of 1053

Time: Job:

10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0159.1	Conflict with S	Sludge Line Conflict on Miss	ion	Closed	08/26/2011	09/05/2011	09/13/2011	Potential	.ly
From: Webcor C	Construction LP	Jacob Giannandrea	To: Turner Construction Com	npan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	, _—
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
•	RFI U-159. See attach				In response to	RFI U-159 and	159.1:		
•	potholes on Mission s for Sta 17+28 and Sta				provided show 23" from the fa is shown 1' fro	vs an existing ur ace of curb, the om the curb. Co	at Beale St., info foreseen concre proposed 12" Sludg nstruct 12" Sludg ting concrete wa	te wall udge FM e FM	
-0159.2	Unknown Con	crete Structure Sludge Line	Conflict	Closed	09/15/2011	09/15/2011	09/21/2011	Yes	
From: Webcor C	Construction LP	Colin Azevedo	To: Turner Construction Com	npan Steve Cunningham	Answered By	:AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
the unknown co able to weld the	RFI U-159.1 equate space between encrete structure in ord e bells of each piece of en how to proceed.	er for a welder to be			concrete structure between STA: facilitate weldidentify section	cture south of pr s 17+25 to 17+7 ing. Expose unl ns to be demolis	ish existing unkno oposed alignmen '5 as required at j known structure a shed and coordin structure demolit	t oints to at joints, ate with	
					Jeff Thiel 9/2 a CR will be is		g approval by the	TJPA,	
-0160	Location of Ex	xisting Sludge Force Main or	ı Beale Street	Closed	07/29/2011	08/08/2011	08/02/2011	Potential	ly
From: Webcor C	Construction LP	Colin Azevedo	To: Turner Construction Com	npan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric 2	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
Street at Beale drawing. They h FM that they are	potholed for the sludg at the location shown have been unable to lo to tie the new 12" slu is not in the location sl	on the attached cate the existing 10" idge main into. The			the vicinity be existing 3'x5' s show the dept	nds down (~45+ sewer in Missior th of the 10" slud	sting 10" sludge F) to get under the St. Record drav dge FM where po	e vings tholed	



See attached pothole findings.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

990 of 1053 11/05/2013

Time: 10:53 AM 30100

30100 - Transbay Transit Center Project

the field.

			,		,			
lumber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
drawings. See attached pothole findings. Please advise on how you would like to pr			the case at Ho the Beale St.	oward and Beald water main coni s found at a loc	ay not be reliable as e St. when excavat nection where the 1 ation different than	ing for 10"		
				STA 7+08 (10 connection loc	' north of curren	udge FM at Beale s it location) to ensul f the vertical bend. w.		
J-0160.1 Location of FM on	Beale Street		Closed	08/05/2011	08/05/2011	08/09/2011	Potential	ly
From: Webcor Construction LP	Jonathan Flaming	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric Za	agol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per response to RFI U-0160 M Squared c potholing at Sta 7+08 on Beale Street. M Squared potholed 7' long x 4' wide and Squared was still unable to determine the existing FM.			Eric Zagol 8/ utility via the U	9/2011 Unfores JSA process. F	een mismarked ex tothole for existing ne attached sketch	sludge		
See attached pothole findings.								
Please advise how M Squared should pro	ceed.							
J-0160.2 Location of FM on	Beale Street		Closed	08/11/2011	08/21/2011	08/24/2011	Potential	ly 🗌
From: Webcor Construction LP	Jonathan Flaming	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric Za	agol	- 🗀
Co-Author:			•					
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M Squared potholed the location of the ex limits in the drawing provided in the response to RFI U-0160.1. M Squared loc within this pothole.			in the field var Refer to SK-U the revised ho	ondition, location ried from that sh -0021 and SK-Urizontal and ver	n of existing Sludge own on the drawin J-0022 attached sh tical alignment to Sludge FM as local	gs. lowing		



U-0163

From: Webcor Construction LP

Utilities Demolition Plan

Jonathan Flaming

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

991 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Closed

08/04/2011

08/14/2011

Answered By: AECOM Technical Service Eric Zagol

08/24/2011

Potentially

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Please direct I	M Squared how to proce	eed.							
J-0161	Unknown Con	crete Structure in Investiga	tive Trench	Closed	07/29/2011	08/08/2011	08/01/2011	Potential	lly 🗌
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction	Compan Gary Krutsch	Answered By	AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
M Squared discovered an obstruction in the Beale Street investigative trench on station 2+55 approximately 25' west of centerline. The obstruction appears to be a 2'-3' thick concrete wall starting directly below the street base and extending down to an unknown depth. M Squared began demoing the obstruction yesterday believing it was part of a concrete encased PG&E trench. It is now known it is not part of any duct package. Please advise on how you would like to proceed.					similar structu investigation t shown in Spe Protect in plac within zone of footprint are to	are was found in trench at Beale scification Section. The control of the control	n non utility stru AECOM's subsi Street Station 2+ n 020630 Appen tructures (i.e. wa wall and Transit / (BSE) contractor	urface -80.52 as idix A. alls) Center	
J-0162	Manhole #602	Orientation		Closed	08/03/2011	08/13/2011	08/09/2011	Potential	lly
From: Webcor	Construction LP	Jonathan Flaming	To: Turner Construction	Compan Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The PG&E manhole at Station 2+55 is actually further south than is shown on the drawings. As a result of this the new water main on Natoma Street was installed in a different alignment than shown on the drawings. In order to excavate and shore for the new Manhole #602, without damaging the new water main M Squared will have to install the manhole at a different alignment than what is shown on the plans. M Squared will maintain the correct internal manhole dimensions per DPW standard drawings.					avoid existing provided. Ma	water main as s intain internal m d steel reinforce	ct sewer MH #60 shown in the ske anhole dimensio ment per DPW \$	etch ons, wall	
	n this is acceptable.								

To: Turner Construction Compan Gary Krutsch



installed in the last 12 months.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

992 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

lateral as shown on Plans.

mber Subject				Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The submittal TG04.4 - U Demolition Plan was retu "Revise & Resubmit". The review note was: Ple sequencing plan per spe M Squared is unable to a abandonment schedules concerned. Please provide us with a the utilities is to be abandonce this has been prov provide the sequencing p	ease provide demo cification 02 41 00 acquire the necessar from the utility com schedule showing doned by the releva- ided M Squared wil	marked and Part 1.3A. ry utility apanies when each of agencies. be able to			specification s contractor to s construction s commencement dates for approdemolition of	the submittal consection 024100 submit a utilities sequencing planent, order, sequencing prior to consecutive to consecutive to the submitted in the submitted	mment was to refe 1.3A requiring the demolition and showing ence and completion mmencing with the The schedule sul	on	
-0164 Be	eale Investigative	Trench Limits		Closed	08/09/2011	08/19/2011	08/10/2011	Potential	ly 🗌
From: Webcor Constructi	_	Jonathan Flaming	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Webcor Const	ruction LP Jonath	nan Flamin	g
Co-Author:			·	·					
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
REQUEST: Sheet U-1008 shows the limits of the investigative trench on Beale Street (south of Mission St) to be 56' in total. 41.1' from center going west and 14.9' from center going east. By going 14.9' from center with the eastern portion of the investigative trench M Squared will not encompass the existing water line and the existing AWSS line as they are outside the limits of the 14.9'.					accordance w 1008. Demoli	/9/2011 Excavarith contract doci	e investigative trer uments as shown g existing 12-inch s shown on Sheet I	on U- water	
Please direct M Squared	how to proceed.								
-0165 Se	ewer Lateral to 92	Natoma		Closed	08/09/2011	08/19/2011	08/10/2011	Potential	ly 🗀
From: Webcor Constructi	on LP	Jonathan Flaming	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:AECOM Tech	nical Service Eric Z		, _—
Co-Author:		Ç		,	·			5	
REQUEST: SUGGES			SUGGESTION:		ANSWER:	Accept Sug	aestion:		
While installing the new sewer on Natoma Street from 2nd to the shoring wall M Squared noticed that the sewer lateral to 92 Natoma is a new VCP lateral and has been					Eric Zagol 8/ existing latera	/10/2011 It is ac Il and provide a	ceptable to protect permanent connect lieu of replacing the	ction to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

993 of 1053

30100

Time: 10:53 AM

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
sew how repl	e contract drawings show M Squared ver laterals on Natoma from 2nd to th vever this lateral appears like it does acing. on Chin (BCM) has been made awar	e shoring wall, not require			Notes Please provid	e credit for cont	ract work not con	npleted.	
	ase confirm it is acceptable to leave a perform permanent connection to the n.								
-0166	Broken Culvert F	Pipe Encountered in Utility	Demolition Trench on Fremont St	. Closed	08/19/2011	08/29/2011	08/24/2011	Potential	lly
Fron	n: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compar	n Gary Krutsch	Answered By	:AECOM Techr	nical Service Eric	Zagol	
Co-Autho	or:								
REG	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
alor culv the pipe of a will	ing trenching for demolition of the eleng the east side of Fremont St Trinet vert pipe (@ Stn 5+05) from the exist east side of the street at Stn 5+05. The exposed is cracked in several place in exposed joint is missing. Please at need the broken pipe section replace in backfilled.	crossed a 10" ing catch basin on the section of clay as and half the bell dvise if the owner					on per direction o	:	
-0167	Culvert Run to N	IH#306		Closed	08/22/2011	09/01/2011	08/24/2011	Potential	ilv 🗀
	n: Webcor Construction LP	Jacob Giannandrea	To: Turner Construction Compar				nical Service Eric		.,
	r: M Squared Construction, Inc.	Aidan Foley	Turner constraint compar	ir Gary Radison	7	-7 LOOM TOOM	noar Gerviot Ene	Lagoi	
REC	QUEST:	•	SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See	e attached sketch.				_	10" SD culvert f			
run	ase confirm that it is acceptable to tie into the new MH#306 instead of runr existing MH.				sewer to SMH	l#306 as shown	onnect existing 3' on U-5001 Detai 5' sewer and exis	16.	
to c	is change is acceptable please advis onnect the existing 3'X5' sewer to MI sting sewer should be abandoned.					STA ~2+40 in a	ccordance with C		



REQUEST:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Webcor/Obayashi Joint Venture

Page: Date:

Job:

994 of 1053

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

ANSWER:

Accept Suggestion:

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0168	TJPA Compos	site Utility Drawings		Closed	08/31/2011	09/10/2011	10/05/2011	Potentia	lly 🗌
From: Webcor	Construction LP	Jacob Giannandrea	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Webcor Const	ruction LP Colin	n Azevedo	- Ш
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Sheet MA - 12, Note 4 refers to TJPA Composite Utility Drawings for that area. M Squared currently has composite utility drawings for trade packages TG04.3, TG04.4, TG04.6, and TG04.1. M Squared does not have composite utility drawings for the TG04.2 project. Please provide these drawings.					utility compos has informatic response to a the TJPA for to Jeff Thiel 10 documents re response to th These docum	ite drawings for on and records protice of intent use as reference /3/2011 SFDPW ferenced in Erichis RFI.	BOE has provide Zagol's original uploaded to	W BOE es in ided to ded the	
					Director path: Utilities\Notice	Sitework & Utili e of Intent\ too large to ope	und in the followities\5 Program C en in Constructwa site by following	coord\30	
					ftp://ftp.tjpa.or	g/Document%2	0Control/110118	24/	
					Log In Instruc	tions			
					1. Enter case- Password (Pu		ame (public) and	I	
					2. Select View	v∖Open FTP Site	in Windows Exp	olorer	
					3. Drag file(s)	to your desktop			
					Note: Please	do not open files	s while logged in	the FTP	
J-0169 From: Webcor	CB#703 Locati Construction LP	i on Colin Azevedo	To: Turner Construction Compa	Closed an Steve Cunningham	09/01/2011 Answered By	09/01/2011 :AECOM Techr	09/07/2011 nical Servic _t Eric	Potentia Zagol	lly
Co-Author:			·	J	-			-	

SUGGESTION:



M Squared has determined in the field that the duct bank

highlighted which is to be demolished, is in fact

Webcor/Obayashi Joint Venture

Wooden obayasın odnik Ventare

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

U-1110 indicates removal of existing PG&E duct to

facilitate construction of the 8-inch Water and Sewer

995 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

		<u> </u>
umber <u>Subject</u>	Status	Date Date Date Cost Created Required Answered Impact Proceed
See attached photo showing conflict with location of new CB#703 and unknown underground concrete structures. They appear to be the same structures discovered in the investigative trenches on Beale Street. Please confirm that it is acceptable to put the new CB in the same location as the existing CB which has been removed.		It is acceptable to construct CB#703 in the same location as existing. Please coordinate the depth of the sewer culvert with proposed PG&E Phase II work as shown on U-2037. Submit proposed culvert profile with elevations of the existing PG&E electrical ducts as pot holed that are to be capped in Phase I (U-1125) and connected to in Phase II (U-2037).
-0169.1 CB#703 Location	Closed	11/15/2011 11/25/2011 11/23/2011 Potentially
From: Webcor Construction LP Colin Azevedo	To: Turner Construction Compan Steve Cunningham	Answered By: AECOM Technical Service Eric Zagol
Co-Author:		
REQUEST: - CB#703 was constructed in the location of the existing catch basin. - See attached profile with culvert elevations. Culvert was installed deeper as several utilities were lower than shown on the drawings. - Per M Squared¡Is response to comments made in the RFI #U-0181, one of the duct banks shown on the drawings could not be located and was not as shown on the drawings. The alignment of the other duct bank is also different than what is shown on the drawings. (See attached) The depth of this duct bank at the point where M Squared capped it (3' south of the unknown concrete structure) was 6' 8" to the top. Its location/alignment beyond that point are unknown.	SUGGESTION:	ANSWER: Accept Suggestion: Please provide the invert elevation of constructed 10" culvert at CB#703. Based on the sketch provided in the RFI169.1, the 10" culvert was reversed slope. A culvert with reversed slope is not acceptable.
-0170 Duct bank Demo on Natoma	Closed	09/15/2011 09/25/2011 09/23/2011 Potentially
From: Webcor Construction LP Colin Azevedo	To: Turner Construction Compan Steve Cunningham	Answered By: AECOM Technical Service Eric Zagol
Co-Author:	SUCCESTION.	ANSWED. Accord Suggestion.
DETHIES IT	STREET WAR	ANSWED: Accort Suggestion:

Eric Zagol 9/18/2011 U-1110 indicates removal of

existing PG&E duct to facilitate construction of the 8-



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

996 of 1053 11/05/2013

Time: 10:53 AM Job: 30100

30100 - Transbay Transit Center Project

Number	Subject		_	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
the plans M Sq gutter and poss Please confirm removed and re leave the duct b	curb and gutter. In ord uared will have to remo sibly a portion of sidewa whether you would like epour the curb and gutt bank in place and repa aged while locating the	ove the curb and alk. See attached. e the duct bank ter after demo, or ir the portion of curb	inch Water and Sewer MH #301. If exiliability highlighted is not in conflict with new ut existing duct may be abandoned in place. Cap existing duct at RUP/BSE demarca ASI 15. Provide photos showing location of duccurb and gutter damaged at the area in repair for review. Jeff Thiel 9/19/2011 Pending approval a CR will be issued.	conflict with new utilities then the abandoned in place. marcation line per Cap existing duct at RUP/BSE demarcation line ASI 15. f duct, duct, and ea indicated for Provide photos showing location of duct, duct, curb and gutter damaged at the area indicated repair for review.					
U-0170.1	Duct Bank Dei	mo on Natoma		Closed	09/21/2011	10/01/2011	10/05/2011	Potential	
From: Webcor (Construction LP	Colin Azevedo	To: Turner Construction Compan Stev	e Cunningham	Answered By	:AECOM Techr	ical Service Eric Z	agol	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
In response to RFI #U-0170, see attached photos. Approx 20' of curb and gutter to be repaired. Sidewalk remained undamaged and does not require repair. Please advise if M Squared is to repair this portion of curb and gutter.		paired. Sidewalk equire repair.			please provide supports the s	e data (i.e. photo	ponse to RFI 170 bs, survey and etc e existing duct ba b and gutter.	:.) that	
					curb and gutte been protecte gutter to be pro- course of wor	er. The curb and d in place during otected in place	ng duct south of t I gutter should ha g excavation. If co was damage dur to match existing s.	ve urb and ing the	

From: Webcor Construction LP

U-0170.2

Colin Azevedo

Duct bank Demo on Natoma

Closed To: Turner Construction Compan Steve Cunningham 11/18/2011

11/28/2011

12/01/2011

Potentially

Answered By: Turner Construction Comp Jeff Thiel



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

997 of 1053

Time: 10:53 AM Job: 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	nas reviewed their photo log				***12/1/11 UP	DATED RESPO	DNSE***		
the curb an	ny photos showing the duck nd gutter. M Squared will pr r CR U-027.					g CR for this wo credit per CR U	rk is CR U-050. P J-050.	roceed	
					11/22/11 O	RIGINAL RESF	PONSE		
						lared shall proc	and will be consideed with providing		
J-0171	AWSS Ductile	•		Closed	09/15/2011	09/25/2011	09/19/2011	Potentia	lly
	cor Construction LP	Colin Azevedo	To: Turner Construction Compa	n Steve Cunningham	Answered By	:Turner Constru	uction Comr Jeff T	hiel	
Co-Author:									
REQUEST			SUGGESTION:		ANSWER:	Accept Sug			
	firm that it is acceptable to pipe for the AWSS system				response, "Us will be respon ends, AWSS	se at contractor's sible for pipe be fittings, etc. and	I Smith's (SFDPW s discretion. Control of the series of th	ractor pipe bell atic	
J-0172	City Furnished	Gate Valves		Closed	09/20/2011	09/30/2011	10/05/2011	Potentia	lly
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Compa	n Steve Cunningham	Answered By	:Turner Constru	uction Comr Jeff T	hiel	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Specifications direct the contractor to provide a clear distance between the pipe flanges that consists of the gate valves laying length plus ½" not including the thickness of the gaskets to be installed.					response,		Smith's (SFDPW	•	
	do this M Squared will need hished gate valves.	d the dimensions of			laying lengths		These laying leng		



mounting the antenna on the enclosure is the preferred

option.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

shown on drawing MA-20. Mounting of antenna on to the controller cabinet shall be performed by the

998 of 1053 11/05/2013

10:53 AM 30100

			JOTOO ITAII.	- John Transi	Date	Date	Date Answered	Cost	
lumber	<u>Subject</u>			Status	Created	Required		<u>Impact</u>	<u>Procee</u>
Please provi for this proje	ide cut sheets for all valve	s provided by SFWD			dated and sig	ned on 10/04/11	(see attached).		
J-0173	Valve control p	panel pick-up		Closed	09/24/2011	10/04/2011	10/05/2011	Potential	ly
From: Webco Co-Author:	or Construction LP	Colin Azevedo	To: Turner Construction Compa	n Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff T	Γhiel	
REQUEST: M Squared's supplier, Control Systems West, have been coordinating with SFWD regarding which of the City's panels will be used for the TG04.2 project. Tom Reid with SFWD has designated 3 panels to be used for this project. These panels are to be picked up at SFWD, transported to Control Systems West for testing, programming etc and then returned to the job for use at 3 of the valve locations. As the panels have been selected M Squared would like to begin the process of getting the panels to their supplier so they can begin the work. Please provide the name and contact information for the person with whom M Squared can coordinate the pick up of the 3 units.			SUGGESTION:		ANSWER: Accept Suggestion: Jeff Thiel 9/26/2011 Contact Bill Gunn at (415) 70 0688 or WGunn@sfwater.org Per Section 01 10 40, Coordination, Article 1.6 C, the RFI does not fall under the acceptable uses for an as it is not being used for an interpretation of the Contract Documents. RFIs used for questions regarding coordination will rejected in the future.			C, this an RFI	
J-0174	AWSS Antenna	a location at Location 1 Colin Azevedo	To: Turner Construction Compa	Closed	09/27/2011 Answered By	10/07/2011	10/11/2011 action Comr Jeff 1	Potential	ly
Co-Author:	or Construction Li	Comi Azevedo	10. Turner Construction Compa	iii Steve Curiningnam	Allsweled by	- rumer constitu	ction Compaetri	riiei	
REQUEST: On drawing MA-20 regarding location 1 the antenna is shown to be mounted on a street light. However, on drawing MA-29 the same antenna is shown to be mounted on the enclosure. Early conversations between Dick Borders (Control Systems West) and Kenny Chin (DPW) confirm that			SUGGESTION:		response: "The antenna cabinet for loc	shall be mounte	gestion: SPDP of the controller on the controller on the controller on the (E) light po	er ence to	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 999 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee		
Please confirm the antenna mounting location.					controller cabinet manufacturer." Dated and signed on 10/11/11 (see attached).						
J-0175	Sludge line lay	/out		Closed	09/27/2011	10/07/2011	11/08/2011	Potential			
From: Webco	or Construction LP	Colin Azevedo	To: Turner Construction Comp	oan Steve Cunningham	Answered By	:AECOM Techr	nical Service Eric	Zagol			
Co-Author:											
REQUEST: The 12" sludge line cannot be installed along Mission Street as shown on the revised drawings due to the elevation and location of existing utilities and other unknown subsurface obstacles. Please see attached pothole information. Please advise how you would like to proceed.			SUGGESTION:		ANSWER: Accept Suggestion: Eric Zagol 11/7/2011 Modifications to the 12" Sludge FM are currently being evaluated under ASI-018. Revised plans and specifications forthcoming following redesign and execution of ASI-018.			18.			
J-0176	AWSS Conflict	t @ Location 7		Closed	09/28/2011	09/28/2011	10/17/2011	Potential	lv 🖂		
	or Construction LP	Colin Azevedo	To: Turner Construction Comp				ty of San Fr Mich		ıy		
Co-Author:			191 Fullion Constitution Comp	our Greve Gurmingham	,e e. e. e.	Toky and Count	y or carri rivilori	doi Omiti			
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:				
Due to the location of existing utilities it will not be possible to install the AWSS valve vault at the location shown on sheet MA 18 of the AWSS drawings. See attached pothole drawings from 09/26/11 and 09/27/11. Please advise how you would like to proceed.			Follow up responce recieved 19 ****10/19/11 UPDATE**** Michael Smith's (SFDPW) resp "Meeting with M Squared, SFW 10/18/11. Contractor to have all First/Howard Streets to 100 fee Street marked for utilities (USA site to determine clear area ove hole for valve vault." Dated 10/19/11 (see attached)	oonse, /D, and SFDPW on rea from intersection of et West on Howard s). We will then meet at		. •					

initial response received 10-17-2011:



Page: Date:

Job:

1000 of 1053 11/05/2013 10:53 AM

30100

Time:

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed SFDPW to meet in the field with contractor and SFWD inspector to determine method to proceed. Will provide response with direction at this time. NOTE: RB issued email 10-18-2011 requesting meeting. U-0176.1 AWSS Conflicts at Location #7 Closed 11/18/2011 11/28/2011 11/21/2011 Potentially From: Webcor Construction LP Colin Azevedo Answered By: Webcor Construction LP Daniel Foudv To: Turner Construction Compan Steve Cunningham Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Per the response to RFI #U-0176 a field meeting was Michael Smith's (SFDPW) response, attended by Michael Smith and M Squared. "Please refer to commnets on attached sheet. M Squared received direction to perform additional SFDPW Response: potholes further west of First St on Howard St. This conflict between the existing AWSS line and Please see attached pothole findings. utilities at the original Please advise how you would like to proceed. design location are unforeseen field conditions due to incorrect information being furnished to the City. Thus the motorized gate valve vault is being relocated west of the original location. The contractor shall pothole 10-feet west of Pothole No. 1B and 10-feet east of Pothole No. 1A to verify that there is adequate clearance for installing a horizontal offset and motorized gate valve vault the approximate location of Pothole No. 1A. Please notify the engineer of the potholing schedule in order that we can request the majorutilities toattempt to identify the 4-inch steel pipe running parallel on Howard Street." Signed and Dated 11/18/11 (see attached)

U-0176.2 AWSS Conflicts @ Location 7

To: Turner Construction Compan Steve Cunningham

Closed

02/16/2012

Potentially

From: Webcor Construction LP

Co-Author:

Colin Azevedo

Answered By: Turner Construction Comr Jeff Thiel

01/28/2012

01/18/2012



is in fact underneath the curb and gutter and portion of the

require us to close the west sidewalk on Fremont St, demo

and remove the sidewalk, remove the ductbank and then

In order for M Squared to remove this duct bank it will

Currently the east sidewalk is closed also due to BBI

sidewalk on Fremont St.

replace the sidewalk.

activity.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1001 of 1053 11/05/2013

Date: Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

6-6" duct from PG&E's EMH 7605.

abandoned in place.

Demolish and remove the 6-6" duct segment between

segment within Natoma Street. The segment south of

STA ~2+40 (at the gutter) and the demarcation line

south of shoring wall. The intent is to remove the

STA 2+40 (STA 2+40 to STA 1+85) can be

umber Subject		State	us	Date Created	Date Required	Date Answered	Cost Impact	Procee
REQUEST: Per response to RFI#U-0176.1 M Squ	ared performed	SUGGESTION:		ANSWER:	Accept Sug	gestion: Smith's (SFDPW)		
additional potholing at Location 7. Please see the attached pothole finding	·			Response.		, ,		
Please advise how you would like to p Note: The 4" Unknown Utility was cont abandoned PG&E gas main. On 1/10 line and confirmed it to be abandoned	irmed to be an /12 PG&E drilled the			"Furnish and install horizontal offset as shown on the attached drawing in order to locate the proposed concrete valve vault with minimum 6-inches clearance to the existing electrical duct bank running on the North side of Howard Street. Adjust nipple lengths as required between elbows and to connect into the ends of the existing cast iron pipes. Concrete valve vault and placement of motorized gate valve shall otherwise be shown on drawings MA-22 and MA-25. Work for installation of new concrete valve vault and gate as show on Drawing MA-18 shall be deleted from the scope pending installation of the new valve vault as shown on the attached drawing." Signed and dated 2/13/12.			arance e e ns as e ends ault erwise and d from rault	
				a CR will be is		Pending TJPA appr	ovai,	
-0177 Ductbank Dem	o on Fremont St	Clos	sed	10/04/2011	10/14/2011	10/10/2011	Potential	ly
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compan Steve Cu	ınningham	Answered By	:AECOM Techi	nical Service Eric Za	agol	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached sketch. The duct bank shown on Fremont Stre	eet to be demolished					nate with PG&E to the M2 sketch is Po	G&E's	



Please adivse.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1002 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

This conflict between the existing AWSS line and

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please ad	lvise how you would like to p	roceed.			Provide cap a in the plans.	t STA 2+40 inst	ead of STA 1+85	shown	
							ect to the existing PG&E's Phase II	6-6"	
-0178	Sludge line lay	out on Mission between Be	ale and Main	Closed	10/04/2011	10/04/2011	11/08/2011	Potentia	Ily
From: We	bcor Construction LP	Colin Azevedo	To: Turner Construction	Compan Steve Cunningham	Answered By	:AECOM Techi	nical Service Eric Z	Zagol	
Co-Author:									
REQUES	Т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Main has proposed Some of t	d potholing on Mission Street revealed additional grade co- alignment for the new 12" sto he utilities are not as shown the field by USAN. See atta	nflicts on the eel sludge line. on the drawings nor			FM are currer Revised plans	itly being evalua	cations to the 12" ated under ASI-016 ons forthcoming for 12018.	8.	
Mission S entire len	dvise if M Sqaured is to continutreet as it may be necessary gth of the trench between Bed map all conflicts.	to excavate the							
-0179	AWSS Main lin	e conflicts at Location 7		Closed	10/05/2011	10/15/2011	11/21/2011	Potentia	
From: We	bcor Construction LP	Colin Azevedo	To: Turner Construction	Compan Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff T	hiel	
Co-Author:				-			•		
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Some of the existing utilities are not shown on the drawings and have been installed on top of the existing 12" AWSS line. Due to the proximity and volume of these utilities it is not possible to even hand excavate down to the existing AWSS line to verify its location and depth. Please see attached pothole information.			the following response reprovide direction in this in the shall be the contractor Contract Documents to in order to identify the exactual excavation.	UPDATED RESPONSE (11/18/11) Michael Smith's (SFDPW) response, Refer to comments on attached sheet. These comments supercede					

Background utility information was provided by



U-0181

From: Webcor Construction LP

Unknown subsurface structure on Beale

Colin Azevedo

Webcor/Obayashi Joint Venture

Page: Date:

Job:

1003 of 1053 11/05/2013

Date: Time:

11/05/2013 10:53 AM

30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject	Subject Status		Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed		
			TJPA/consultatns and shall be verified in the field by contacting Underground Service Alert (USA). Direct conflicts oted during potholing shall be directed to the utility owner(s) for relocation/removal as required to perform the contract work. NOTE: email from Rick Buellesbach 10-18-2011 requests an answer to the question.	information be There are no the necessity capped on the accommodal proposed training The engineer conflict with the conf	utilities are unforeseen field conditions due to incorrect information being furnished to the City. There are no design alternates at this location due to the necessity of removing the existing cross that was capped on the First Street side outlet to accommodate the utility relocation work for the proposed transit center. The engineer will contact the owners of the utilities in conflict with the AWSS facility for resolution." Dated 11/18/11 (see attached)					
U-0180 From: Webcor Con	Conflict with CB	305 Colin Azevedo	Closed	10/10/2011	10/20/2011	10/17/2011	Potentia			
	Struction LF	Colli Azevedo	To: Turner Construction Compan Steve Cunningham	Allswered B	y. webcor Consi	truction LP Richa	ra Buellesi	oacn		
REQUEST: While excavating to install CB305 M Squared encountered a large unknown concrete structure. The concrete structure is in conflict with CB305. CB305 cannot be installed as planned. See attached photo. Tsu-Ling with AECOM and Alberto with SFDPW reviewed the situation in the field and agreed the solution was to salvage the existing CB where CB 305 was to be installed. This work was performed on 10/7/2011 under the inspection of SFDPW. Please confirm.			SUGGESTION:	ANSWER: Accept Suggestion: As determined during a site visit on 10/7/11 with M Squared, AECOM, SFDPW and W/O; the existing unforeseen condition, a large concrete structure, is in conflict with CB 305 and the installation of a new catch basin would require an extensive amount of unforeseen demotion. In lieu of installing a new catch basin barrel to replace existing, modify the existing catch basin as follows: 1. Clean interior walls and bottom. 2. Apply 1/2" think uniform layer of mortar on interior walls and bottom. 3. Install cast iron trap. 4. Install pipe culvert and connect to MH#305 as shown in Plans. New culvert size and invert shall match existing culvert at catch basin. Use ductile iron pipe if depth of cover						

To: Turner Construction Compan Steve Cunningham

Closed

10/13/2011

10/23/2011

Answered By: AECOM Technical Service Eric Zagol

10/24/2011

Potentially



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

existing conflict with the AT&T vault over/within the

1004 of 1053 11/05/2013 10:53 AM

30100

Date:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co-Author:									
REQUEST: During M Squared's demo work on the West side of Beale Street at Sta 4+70 they uncovered an unknown subsurface structure. This structure appears to be an abandoned vault that has been filled with concrete. Please see attached photo. M Squared ceased work on the removal of the six 6" electric duct banks 6' south of this structure. If they are to continue with the removal of this abandoned duct bank per sheet U-1125 of the contract drawings they will be forced to remove the subsurface structure. Please advise.			SUGGESTION:		the location and identified. Als	nd extent of unk so indicate what	e provide a plan	xisting	
	Unknown subsurf	ace structure at 301 Mis Colin Azevedo		Closed Compan Steve Cunningham	11/18/2011 Answered By	11/28/2011 AECOM Techr	11/23/2011 nical Service Eric 2	Potential l Zagol	ly 🗌
Co-Author: REQUEST: See attached information as requested in response to RFI #U-0181.			SUGGESTION:		shown are acc	ceptable. Pleas	gestion: n. Cap locations e mark on as-bui ntract documents	lt	
	AWSS Conflict wi	th AT&T Vault at Location		Closed Compan Steve Cunningham	10/24/2011 Answered By	11/03/2011 :Webcor Const	11/21/2011 ruction LP Danio	Potential	ly
REQUEST: On the north east side of the Mission Street and 2nd intersection the existing AWSS line is running through the floor of the AT&T vault. The removal of the existing 12" pipe and installation of the new 16" AWSS pipe will require the floor vault to be demolished and re-poured. Please provide a detail for this work or a new alignment for the AWSS line so as to avoid this vault.			SUGGESTION:		"SFDPW Res This conflict b utility vault are incorrect infor The contracto	etween the exise unforeseen fie mation being fur		to y.	



in them that have since been confirmed abandoned.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

- Contractor shall field verify alignment of pipe North/South of proposed vault location for connection 1005 of 1053 11/05/2013

Date: Time:

Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
					present alignm	nent of the AWS	SS pipe.		
					Notify enginee alternate pipe		ults for the propos	sed	
					Signed and Da	ated 11/18/11 (s	see attached)		
J-0182.1	AWSS Conflict v	vith AT&T Vault at Location	2	Closed	03/28/2012	04/07/2012	05/16/2012	Potential	ly
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Cor	mpan Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff T	hiel	
Co-Author:									
REQUEST			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
provide ade	provided in response to RFI equate information to perform Please provide additional info	n additional			Jeff Thiel 3/2 response,	9/2012 Michael	Smith's (SFDPW	")	
potrioning.	r lease provide additional lilli	omaton.			potholing the le existing AWSS conflicts in the	ocation shown i 3 main and that	sketch dated 3/16 in order to verify the there there are not tocation. The original tocation. The original tocation.	he o utility	
					Signed and Da	ated (3/29/12)			
J-0182.2	AWSS - Conflict	with AT&T Vault at Location	n 2	Closed	07/31/2012	07/31/2012	08/14/2012	Potential	ly 🗌
From: Web	cor Construction LP	Jackson Tukuafu	To: Turner Construction Cor	mpan Gary Krutsch	Answered By	Turner Constru	uction Comr Jeff T	hiel	
Co-Author: M Sq	uared Construction, Inc.	Aidan Foley							
REQUEST	1		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response to U-0182.1, M Squared potholed the locations shown. See attached pothole data. - The pothole 24' north of Mission appears to have a substructure underneath PGE duct banks. - The pothole 12' north of Mission St had several utilities			Relocate the street light/ traff shift the vault location 3 feet 12inch gas main. In doing so the location for a cast in place	Michael Smith's (SFDPW) response, - Proceed as per Contractor's recommendation for locating motorized gate valve vault.					



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1006 of 1053 11/05/2013

Date: Time: Job:

Signed and dated 2/8/13 (See Attached). Contractor to

verify material quantities required for the revised

work.

alignment once the proposed route is fully exposed.

Pending TJPA approval, a CR will be issued for this

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					into (E) lines.				
					Signed and da	ted 8/9/12. (See	e attached)		
					rench the Seco the attached sk dvise TJPA if the	Co/PMPC/SFDPW nd Street AWSS etch. Upon compl ere will need to be uired to complete	letion e a		
U-0182.3	AWSS - Design	Route at 2nd Street Inters	section	Closed	02/06/2013	02/16/2013	02/28/2013	Potential	
From: Webcor Cor	· ·	Jackson Tukuafu	To: Turner Construction C				ction Comr Jeff T		.,
Co-Author: M Squared	Construction, Inc.	Aidan Foley		company cary rations	,				
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Per the response to RFI U-0182.2, M Squared has field verified a new alignment for the 16" AWSS at 2nd & Mission St. (See attached drawing).					(SFDPW) "Proceed as s	tated above due	se per Michael Sr		
	Destance POSE and list this is the endown list.				utilities impact	ing original vaul	it location."		

Due to several PG&E conflicts this is the only available route capable of accepting a 16" pipe; M Squared is unable to locate an alignment per the sketch attached to the response to RFI U-0182.2. By proceeding with this alignment M Squared will again return the AWSS pipe through the structure of an AT&T vault and a PG&E Vault. It does not appear from our field work that there are other options for a workaround.

Based on information M Squared currently have attained from the trenching; restraining each joint, per the original contract will require the following:

- 4 additional 16-inch 45deg bends
- 2 additional 16-inch 90deg bends
- 1 additional 16-inch bell collar
- 15 additional stop collars
- 4 additional kickers/thrust blocks.

Please confirm the proposed route and additional fittings



potholing. See attached pothole info. These utilities are

not shown on the contract drawings.

Please advise.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

1007 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

				<i>J</i>		,			
umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
and restraints a	re acceptable.								
-0182.4	AWSS - Final De	esign Route and Additiona	I Fittings List at 2nd Street Intersec	tion Closed	03/14/2013	03/24/2013	03/21/2013	Potentially	<i>,</i> \Box
From: Webcor Co-Author: M Square		Jackson Tukuafu Aidan Foley	To: Turner Construction Compan	Gary Krutsch	Answered By	:Webcor/Obaya	ashi Joint V∉Jack	son Tukuafu	
REQUEST: Refer to drawin	g MA-3 and MA-13		SUGGESTION:		ANSWER: Michael Smith	Accept Sug			
As M Squared in & Mission Street trenching which different and mostreet piping. This new alignment previous RFI-01 1. Please configurated M Squared M Squared. The located. The located of the square of the squar	rm the new alignment shared sketch SK-008.3 is rm where the 16" to 12" cation of this reducer will ed to purchase two (2) m	ang 16" line at 2nd additional possibility of a ment for 2nd gnment sent in the acceptable. reducer is to be decide whether M			excavations is -Locate the 16 as close as po	·	North of the 16" e."	lee and	
-0183 From: Webcor C		ult Conflict at Location 1 Colin Azevedo	To: Turner Construction Compan	Closed Steve Cunningham	10/24/2011 Answered By	11/03/2011 City and Coun	10/26/2011 by of San Fr Mich	Potentially ael Smith	/ <u> </u>
	ralve vault at location 1 cs		SUGGESTION: Jeff Thiel 10/27/2011 Michael Sr response,	mith's (SFDPW)	ANSWER:	Accept Sug	gestion:		

"Per your preliminary excavation results, please

At site visit, we will provide direction for vault

schedule a site visit with SFDPW and SFWD at site.



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1008 of 1053 11/05/2013

Date: Time: Job:

Controller cabinet: Per the preliminary excavation at Pothole No. 7 and the provided information, install the controller cabinet concrete foundation at this site.

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
			installation."						
			Signed and Dated 10/26/11 (see	attached)					
			Kevin Chiu 10/27/2011 When fi provided via on site meeting per please submit a follow up RFI to provided in the meeting.	the RFI response,					
U-0183.1	AWSS Valve Val	ult Conflict at Location 1 Colin Azevedo	To: Turner Construction Compa	Closed	11/16/2011 Answered By	11/26/2011	11/18/2011 ruction LP Dani	Potential	ly
Co-Author:	Construction LF	Collii Azevedo	To: Turner Construction Compa	n Steve Cunningnam	Allsweled by	-wedcor Const	ruction LP Dani	ei Foudy	
SFDPW and	nse to RFI#U-0183 a site SFWD on 11/2/2011 to rev ease provide direction bas	view the conflicts at	SUGGESTION:		"Refer to com comments supported to the comments supported to the comments supported to the comments of the co	percede comme 3. ponse: e valve vault: Pe Pothole No. 2 a erify 2 1/2-inch s r should there no ue to the existing iole No. 3 drawin d drawing(s) for the moved west. limensions need inimum of 3-inch	sponse, ned sheets. These ints provided on the	ip and pace to sank seer to hould should fter hother	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1009 of 1053 10:53 AM

30100

Time:

Job:

30100 - Transbay Transit Center Project

West.

Alexandra a	Outland			04-4	Date	Date	Date	Cost	D
Number	<u>Subject</u>			Status	Created	<u>Required</u>	Answered	<u>Impact</u>	<u>Proceed</u>
			Notify MCI that either their conduit can ren controller foundation installed over the con inches clearance or that they can relocate conduit as required. Modify bottom of cont foundation to accommodate a clearance of should the conduit not be relocated. Battery vault: Per the preliminary excavation Pothole No.6 and the provided information the installation of the battery vault by locat northern edge of the vault 2-feet towards the	over the conduit value of the controller of controller clearance of 4-indicated. ary excavation at d information, field rault by locating the	vith 4- ches verify e				
					· ·	eated 11/15/11 (s			
U-0183.2	AWSS Valve V	/ault Location 1		Closed	12/02/2011	12/12/2011	12/15/2011	Potential	ly
From: Webco Co-Author:	r Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered B	:Turner Constru	ction Comr Jeff T	niel	
REQUEST:	ne attached letter regardi 1.	ng the response to	SUGGESTION:		ANSWER: Michael Smith	Accept Sugg h's (SFDPW) res			
Please provid	le direction.				"Please see a SFDPW Resp		ed response - U-1	83.2.	
					excavation at information, varequest owne vault footprint valve valut st duct bank showest along Meninimum 12-electrical duc	Pothole No. 2 arerify 2 ½ inch store to relocate the with 12-inches of the inconflict wown in Pothole Narket Street untilinches clearance to bank.	eel for ownership a line outside of the clearance. Should with the existing ele to. 3, move vault to il valve vault has a with the existing	and valve the ectrical ocation	
							ised drawing(s) for ault need to be mo		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1010 of 1053 11/05/2013 10:53 AM

30100

Date: 1 Time:

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					to be reduced	l after providing n other utilities a	nterior dimensions a minimum of 3 in and the vault const	iches	
					Signed and da	ated 12/14/11 (s	ee attached)		
					Turner will ver	rify 2 1/2 steel fo	or ownership.		
J-0183.3 From: Webcor C		offlict at Location 1 Colin Azevedo	To: Turner Construction Co	Closed	01/23/2012 Answered By	02/02/2012	02/08/2012 uction Comr Jeff T	Potential	ly
Co-Author:			- 1 Turnor Constitution Co	ompan Otovo Ourillingham		- rumer constit		THO	
Construction pe location on Mar Please see atta Please advise of	se to RFI #U-0183.2, M sufformed further potholin ket Street. ched findings of these purn how you would like M e vault construction/insta	g on the valve vault ootholes. Squared to	SUGGESTION:		"-Install concr pothole No. 3, necessary du -Resubmit con suite location other utilities. line and 4" to	n's (SFDPW) resete valve vault i A. Relocate 1 1/ ring vault placer ncrete vault drav and 9" thick wa Provide minimu	sponse, n locations as sho 4" copper pipe as nent. wings with dimens lls for walls adjace m 6" clearance to	ions to	
J-0183.4	AWSS - Valve V	ault Conflict at Location	for Trade Package	Closed	07/05/2012	07/15/2012	07/19/2012	Potential	ly
From: Webcor C		Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	:Turner Constru	uction Comp Jeff T	hiel	
Co-Author: M Square	d Construction, Inc.	Aidan Foley							
discovered that installed on it. These res and shoring for the	g for the MGV at location the existing 16" water in traints are in conflict with the removal of the exist enew cast in place vau	nain has restraints h the excavation ing valve vault and	SUGGESTION:			Accept Sug 9/2012 Installation e contractor's m		S.	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1011 of 1053

Time:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0184	AWSS Connec	ction Point at Location 2.		Closed	10/24/2011	11/03/2011	11/01/2011	Potentiall	y 🗌
From: Web	ocor Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	Turner Constru	ction Comr Jeff	Thiel	- 🗀
Co-Author:									
	ng AWSS line at the connec th of Mission is a 10" pipe n A-13.		SUGGESTION:		response, "The line on S a 10" CI line. I in the contract line."	econd Street No Please update d	Smith's (SFDPV orth of Mission S rawings. Drawing tes the line as a	treet is g MA-21	
J-0184.1	AWSS Connec	ction Point at Location #2		Closed	12/02/2011	12/12/2011	12/14/2011	Potentiall	y 🗀
From: Web	ocor Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	:Turner Constru	ction Comr Jeff	Thiel	
Co-Author:			·	Ü	-		·		
RFI#U-018	e the attached letter regardi	ng the response to	SUGGESTION:		is preparing restationing inforevised drawir U-0184 and p be issued in the revisions. Jeff Thiel 3/22 12/14/11 indictions a revised in the state of	evised AWSS dr rmation provide ngs will address rovide clear dire ne near future part 2/2012 - RFI U-1 tated that resolu AWSS drawing.	to RFI U-0188 Sawings to include by AECOM. The the issue raised ction. The drawir ackaged with oth 84.1: The resportion would be protion would be protings provided un	e nese in RFI ngs will er nse on ovided	
J-0185	Existing Later	al to CB701		Closed	10/28/2011	11/07/2011	11/01/2011	Potentiall	y 🗌
From: Web	ocor Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	:Webcor Consti	uction LP Colir	ı Azevedo	
Co-Author:									
connecting was replace 3033, do n CB #701. existing lat	024 shows and existing stor g the back side of the existing ed by CB #701. The detail not show this existing lateral CB #701 has been installed teral was abandoned in placed that the abandon lateral in	ng catch basin which s for CB #701, C/U- to be connected to d per plan and the se. It has been	SUGGESTION:		catch basin ba right of way at shall manage sewer in acco	arrels from proper e prohibited . C runoff in parcel rdance with CCS	al connections to erty outside of the owner/occupant of and discharge to	e public of Parcel o main	



dig around the existing utilities to install drain rock beneath

the enclosure per the specifications.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

excavation at Pothole No. 2 and the provided

information, verify 2 1/2-inch steel for ownership and request owner should there not be adequate space to

1012 of 1053

30100

11/05/2013 Time: 10:53 AM

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
catch basir	n in Lot N. See attached sk	etch.			occupant of P	arcel.			
Please adv	rise.								
-0186	AWSS Conflic	t with Elec. Duct Banks &	Vault @ Location 2	Closed	11/01/2011	11/01/2011	11/18/2011	Potential	ly 🗌
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Com	pan Steve Cunningham	Answered By	:Webcor Constr	uction LP Dani	el Foudy	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
electrical countries as shown attached poside of the The concretion allow enough.	proximity of the electrical voncrete duct banks it is not g 18" AWSS line and reconwn on drawings MA-3 and bothole drawing. The restraintee are cast into the base of the duct bank on top of the point combined with the elgh room for the plumber to ast the new one.	possible to remove nect to the existing MA-13. Please see ning lugs on the east of the electrical vault. AWSS line at the ectrical vault not			"SFDPW Res This conflict b utility vault/du due to incorre City. There are no the necessity at this location maintain the p Mission Stree the utility in co facility for res	etween the exist ct bank are unfoct information be design alternate of removing the in order to instantoposed 16" pipt. The engineer conflict with the A'	ring AWSS line a reseen field con- eing furnished to s at this location existing 18"x10" all the 16" fittings e size upgrade of will contact the o	ditions the due to reducer s to on	
-0187	Conflicts with	Controller Cabinet Found	ation & Battery Enclosure at Locat	tion 1 Closed	11/18/2011	11/28/2011	11/21/2011	Potential	ly 🗌
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Com	pan Steve Cunningham	Answered By	:Webcor Constr	uction LP Dani	el Foudy	
Co-Author:									
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
Please confirm that M Squared it to install the control cabinet enclosure foundation (3'W x 3'L x 2'D) on top of the existing 10" and 8" steel lines shown on the attached sketch of pothole #6. Please confirm that M Squared is to install the fiberglass battery enclosure on top of the utilities shown on the attached sketch of pothole #7. It will be necessary to hand				"Refer to SFD RFI U-0183.(' Signed and D RFI U-0183.1 "SFDPW Res	n's (SFDPW) res PW response pr 1)." ated 11/18/11 (s Response inclu- ponse:	ponse, rovided on 11/16 ee attached)			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1013 of 1053 11/05/2013

Time:
Job:

controller cabinet and the concrete foundation at this site instead of the battery vault assembly that was shown here originally in the Contract Documents.

Notify MCI that either their conduit can remain with the controller foundation installed over the conduit or MCI

10:53 AM 30100

Number S	ubject	<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed			
			shown in Pot to provide revault need to vault interior reduced after clearance wi with 12-inch Controller cal Pothole No. controller cal site. Notify M with the cont with 4-inches relocate their controller four 4-inches sho Battery vault Pothole No.6	install vault due to the existing electrical duct bank shown in Pothole No. 3 drawing. Notify engineer to provide revised drawing(s) for AWSS fittings should vault need to be moved west. Notify engineer should vault interior dimensions need to be reduced after providing a minimum of 3-inches clearance with other utilities and the vault constructed with 12-inch thick walls. Controller cabinet: Per the preliminary excavation at Pothole No. 7 and the provided information, install the controller cabinet concrete foundation at this site. Notify MCI that either their conduit can remain with the controller foundation installed over the conduit with 4-inches clearance or that they can relocate their conduit as required. Modify bottom of controller foundation to accommodate a clearance of 4-inches should the conduit not be relocated. Battery vault: Per the preliminary excavation at Pothole No.6 and the provided information, field verify the installation of the battery vault by						
U-0187.1 C	onflicts with Controller Cabinet Four	ndation and Battery Enclousure at Location # Closed	12/02/2011	12/12/2011	12/15/2011	Potential	lly			
From: Webcor Construct	ion LP Colin Azevedo	To: Turner Construction Compan Steve Cunningha	am Answered B	y:Turner Constr	uction Comr Jeff	Γhiel				
Co-Author:										
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:					
	letter regarding the response to		Michael Smit	th's (SFDPW) re	sponse,					
RFI#U-0187.			"Please see	attached for revi	sed response - U	-187.1.				
Please provide direction			SFDPW Res	ponse:						
					reliminary excavared information, in					



informed them of the intent to install units on their utility. They requested a letter from the owner highlighting the

intent. Please confirm if it is acceptable to install a unit on

Please provide direction on the locations of the battery vault and controller cabinet taking into consideration all

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

1014 of 1053 11/05/2013

Date: Time:

Job:

Locate North most edge of battery vault cover 24"

Signed and Dated 2/14/12 (Letter Wording) and

in "brick" area."

from face of curb or back from face of curb to remain

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed			
	has the option concrete found relocate, reduced MCI conduit to clearance beto the bottom of Battery Vault: Pothole No. 6 battery vault a cabinet that we Documents.							want to ion over er and t stall the				
	cabinet that Documents Field verify to determine can be instead of State o					cabinet that was shown here originally in the Contract Documents. Field verify (pothole) 2-feet from face of existing curb to determine if the Northern edge of the battery vault can be installed approximately 2-feet from curb instead of 5-feet from curb in order to provide clearance with 8-inch steel line. Notify engineer of pothole results prior to installation."						
					Signed and Da	ated 12/14/11 (s	ee attached)					
U-0187.2	Conflicts with	Controller Cabinet and Batt	ery @ Location 1	Closed	01/23/2012	02/02/2012	03/21/2012	Potential				
From: Webcor Const		Colin Azevedo	-	Compan Steve Cunningham			ction Comp Steve		- 🔲			
Co-Author:			- Famor Condition	Compan Clove Cammigham		. Carron Continu	out out	c can in grie				
REQUEST: In response to RFI # U-0187 ON 12/14/11 - See attached pother this location During initial discus) ble data from addi ssions with MCI/V	erizon M Squared	SUGGESTION:		response,		gestion: Smith's (SFDPW					



at location 7.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1015 of 1053

Time: 10:53 AM 30100

30100 - Transbay Transit Center Project

0200.1.

			<i>J</i>		,			
Number Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
current utilities in place.				3/15/12 (Batt	ery Placement)			
					letter addressed Brown on 3/14/1	d to MCI/Verizon v 2.	vas	
J-0188 Control Sta	tions on AWSS Drawings		Closed	11/18/2011	11/28/2011	11/21/2011	Potential	lly
From: Webcor Construction LP	, and constant company of				y: Turner Constru	uction Comr Kevin	Chiu	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
At present M Squared has set up control points along Mission Street. These stations were based on a continuation of survey points used on Mission Street for the TG04.6-Sludge Line Project. The City designed AWSS Drawings do not have these stations on them. Please provide an updated set of AWSS Drawings with the project stations marked on them so it				"SFDPW is c with stationin We anticipate stamped/sigr 2011."	g information as the final set of	g revised AWSS provided by AEC to the end of Nov	OM.	
	will allow M Squared to accurately document field conditions and as built the necessary information.			stationed dra	wings. It was res by ASI 19 when	88 included a requestronded to on 11/ the stationed dra	18/11	
J-0189 First & Hov	vard Utility Conflicts, Location	n 7 Complete Pothole Data	Closed	12/02/2011	12/12/2011	07/03/2012	Potential	ily
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compa	an Steve Cunningham	Answered B	y: Turner Constru	uction Comr Jeff T	hiel	
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
While potholes #2 & #3 have been previous RFI (RFI#U-0176), other Location 7 exposed various utilities the contract documents. Other utilities	ootholes carried out in that are not shown on ities were not in the			been address meetings, CF	sed and resolved Rs, and other RF	·		
locations indicated on the contract See attached pothole data from po				as RFIs U-01	76, U-0176.1, U	-088, and U-088A -0176.2, U-0179, ·0199, U-0200, an	U-	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1016 of 1053 11/05/2013

Date: Time: Job:

shall be a minimum 1.5 (below top of slab), install swellable water stop (Greenstreak Hydrotite CJ -0725)

Form and pour with Emaco S66 CI by BASF. Perform surface preparation and provide curing in accordance with manufacturers recommendations. Note:

in keyway.

10:53 AM 30100

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please clari	fy if the utilities will be rem	noved, protected in							
place of Tele	ocatou.								
0190	Fire Hydrant L	ocation on Mission @ First		Closed	01/10/2012	01/20/2012	01/19/2012	Potential	ly
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Compan S	teve Cunningham	Answered By	Turner Constru	ction Comr Jeff T	hiel	
o-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
in the sidew Squared's c Portico Res This basem a differing s The roof of Please prov It is not post to the prese a column poattached).	oling for the new Hydrant a ralk on Mission Street (see trews damaged the roof of taurant, 88 First Street (see the structure was not note ite condition. The basement will now need direction and repair desible to locate the fire hydrance of the basement. The pured into the structure of the str	e attached), M the basement to ee attached photos). d on the plans and is ed to be repaired. etails for this work. rant in this area due existing hydrant has the basement (see			-Repair of side attached direct for repair meth -New Hydrant hydrant alignn areaway. Refe	tions from Willia nod. lateral shall be nent. (E) Hydrar er to AWSS star W will provide re construction.	sponse, location: Refer to am Liang-SFPDV located in the (E) at is located in an andard drawings fo evised drawing for	V/EST r	
Please advi:	se on how you would like t	to proceed.			(SFDPW) . Chip out conc damage (E) re If (E) rebars a saw-cutting pr the cut rebars Splicing syste size to match proceed to Ste	rete inside of sagbars. re found to have occess, chip out for installation of m at both ends; (E). If (E) rebarsep 3.	r per William Liar w-cut area; do no e been cut during enough concrete of Lenton Quick-V splice new rebar s are found to be eer of opening (ke	ot the around Vedge s with intact,	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1017 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

manufacturer's recommendations.

Note continuous special inspection shall be provided

umber	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					continuous sp concrete pour	•	shall be provided	d for the	
-0190.1	Fire Hydrant L	ocation on Mission @ First		Closed	01/25/2012	02/04/2012	01/26/2012	Potentia	lly
From: Webcor	Construction LP	Colin Azevedo	To: Turner Construction Co	mpan Steve Cunningham	Answered By	:Turner Constru	ction Comr Jeff	Thiel	
Co-Author:									
roof per the re William Liang and provided a	M Squared began repairsponse to RFI U-0190. came out and review the alternate direction in the rection in writing so wor	SFDPW engineer e progress that day field. Please	SUGGESTION:		SFDPW engir direction to su to RFI U-0190 Existing rebar sufficient concinstruction bel Per William Li 1. Chip out co damage (E) re 2. (E) main rel insufficient bo wire-mesh abo been cut durin process. Instate epoxy along the embedment in maintain 6" mepoxy shall be RE500-SD. 3. Install swell CJ-0725) abov provide min 1.	peer. SFDPW prepplement the discovered for the main religious of t	en at 1/24/12 site ovided informatic rection given in representations in the uncut but lackingse see supplementations are found to be intact but happer; (E) pars are found to a 12"o.c. max see (see attached phys.) (Greenstreak Hydels, er.	on and esponse e field. ig entary o not ave have et in noto), T- drotite	
					4. Form and p attached cut s	our w/ Emaco S heets). Perform	66 CI by BASF (



Please provide a detail drawing showing the new hydrant

Webcor/Obayashi Joint Venture

Page: Date:

Job:

The existing hydrant is in an "areaway" since the

property at this location has a basement that extends

1018 of 1053 11/05/2013

Time:

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					for the dowel in concrete pour.				
					ORIGINAL RF REFERENCE	T U-0190 RESF	ONSE FOR		
					damage (E) re 2. If (E) rebars saw-cutting properties to match or proceed to Ste 3. Install keywighall be a minimum swellable wate in keyway. 4. Form and preform surfactions accordance with the saw of the same surfactions are sawded and sawded accordance with the	ebars. Is are found to hat ocess, chip out for installation of m at both ends; (E). If (E) rebars ap 3. If any around perindinum 1.5" belower stop (Greenstour with Emaco ce preparation at the manufacture ous special insp	saw-cut area; do ave been cut duri enough concrete of Lenton Quick-\ splice new rebars are found to be neter of opening w top of slab), ins reak Hydrotite C. S66 CI by BASF and provide curing re recommendati ection shall be pr	ng the around Vedge s with intact, (keyway tall J -0725)	
U-0190.2	AWSS - High	Pressure Fire Hydrant Loca	tion on Mission @ First Street	Closed	11/21/2012	12/01/2012	11/26/2012	Potentia	lly 🗌
From: Webcor Cor	struction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Turner Constru	ction Comr Jeff	Γhiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to drawing MA-15 and response to RFI U-0190.					Jeff Thiel 11/ (SFDPW),		nse per Michael	Smith	
and 9+00, the nev	w location of the H is to remain in the	s between Sta 8+50 P fire hydrant shown e existing location per			for replacing the location.	ne existing HP t	n for changing the	ove	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

1019 of 1053 11/05/2013

Date: Time: Job:

Turner. Contractor to provide a construction schedule and set up Pre-con with PG&E (Per SFPUC request to inform them when Contractor expects to trench for

10:53 AM 30100

001111 721	113112		30100 - Transbay	rransi	t Center	Project			
Number	Subject		Ste	atus	Date Created	Date Required	Date Answered	Cost Impact	Proceed
lateral with a areaway.	all SFDPW requirements f	for HP hydrants in an			main will be re Please see at hydrant latera contract docu from the work drawing MA-5	new hydrant offeplaced in this "a tached sketch. I that bends 90- ments drawing N scope. There is	f the proposed 16 areaway" structur The originally pro degrees as show MA-15 will be dele s no change in w drawing HPL-514 ndard drawings w	e. oposed n in the eted ork for 12.1 is	
				use extreme car ow and to preven treet/sidewalk."					
U-0191	Power Source	e at Location #1, #2 & #7	Cio	osed	01/16/2012	01/26/2012	02/27/2012	Potentia	Ily 🗌
From: Webc	or Construction LP	Colin Azevedo	To: Turner Construction Compan Steve C	Cunningham	Answered By	:Webcor Const	ruction LP Jeff I	Heath	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
In order for the controller enclosures for the motorized gate valves at Location #1, #2 and #7 to be operational a power source will need to be provided at each enclosure location. Please confirm that the owner has applied to PG&E for the power sources at these locations and advise on the status of these connections.				Jeff Thiel 2/2 application to The SFPUC I weeks to mak coordinate me start of work. Below is the Market Start of Start	SFPUC for pow as requested a e these connect eeting with SFPU MOP for coordina	PA has completed er to AWSS facili minimum of four cions. Sub contra JC and PG&E pri	ties. (4) actor to or to		
					connection as SFPUC. 1. Contractor PG&E, PUC (confirmed by M to schedule coo Mathew Ho or M	rdination meeting	ı with	



The contract drawings show M Squared's work beginning

at pull boxes and going to the controllers. M Squared's interpretation of the drawings sent in the revised response

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

attached documents shall take place per contract

Final coordination for connections shall take place in

drawings.

1020 of 1053 11/05/2013

Time:

10:53 AM 30100

Number	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Number	Guoject		Giatus		<u>rioquirou</u>		mpace	Trocecu
				installed) 2. Contractor which is need before closing conduit via m PG&E inspect located on dr. contact as Ma 3. PG&E to p 4. Schedule a (Dave Green copy of the D 5. Once gree and then ene	to schedule PGoled after contract the trench so the andrel test (30d: tion # 415-695-7 awing and provide att Herron) ull cables a DBI inspection DBI 415-558-66 BI green tag) in tag is applied, rgize.	e power pedestals &E trench inspector installs conduinate PG&E can proper provide pedes power pedes power pedes power pedes power pedes power pedes power pedes pe	tion it but ove the d, Call PM# er estal = a	
			Origanal Response 1/26/2012 The TJPA has completed its application power to AWSS facilities. The SFPUC has requested a minimal weeks to make these connections. Sub contractor to coor with SFPUC and PG&E prior				PUC for (4)	
_				to start of wo	к.			
U-0191.1	Power Source at Location #1, #2 & a	7	Closed	03/21/2012	03/31/2012	05/01/2012	Potential	lly
From: Webcor C	onstruction LP Colin Azevedo	To: Turner Construction Compa	n Steve Cunningham	Answered B	y :Transbay PMP	C Cory	Traylor	
Co-Author:								
response to RFI procedure to be ready to accept	on the AWSS project resulted in the #U-0191 being revised to include a followed once the controller cabinets were power. However, what was sent in the e was a new scope of work followed by the edure.	SUGGESTION:		Greenbook si connections f be installed a attached PG& equipment re	andards and pra or motorized gat t the referenced &E sketches, dire quirements. Wo	ordance with PG	nt shall ested the	



U-0191.3

From: Webcor Construction LP

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1021 of 1053 11/05/2013 10:53 AM

Time: Job:

30100

30100 - Transbay Transit Center Project

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
to RFI#U-0191 is the scope of work that goes from the pull boxes to PG&E manholes. This is unclear because the PG&E drawings are not comparable with the contract drawings. Please clarify the intent and scope of the PG&E drawings.					Connecting for	r power per the tion has been a	gs MA-29 and M attached PG&E approved by SFD		
Please clarify the in Please clarify how to contract drawings.									
U-0191.2	Amperes Inte	rrupting Capacity (AIC) at AV	VSS Location #1 (Market St.)	Closed	05/23/2012	06/02/2012	06/21/2012	Potential	ly 🗌
From: Webcor Cons	struction LP	Jackson Tukuafu	To: Turner Construction Compa	an Steve Cunningham	Answered By	Transbay PMP	C Cory	Traylor	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to RFI MA-1, MA-29 and N		attached drawings			labeled "555 N	lease see attac larket St. AIC.p lease see attac		tion 1	
of Engineering sket addresses the moto Location #7. As ne gate valve number	tches and letter for orized gate valve r ew power service v 2, Location 1, plea	number 21 at vill be required at			"comments_trans" Matt Herron of the PG&E pow #7. Also, please s	ansbay.pdf" cor PG&E clarifiyir ver connection p	ntaining commening the scope of vocints at location on location of ma	vork for s #1 and unhole	
clarification sketche the drawing sheet N unclear from the PO	a conformed draw es provided in RFI MA-29 and MA-31, G&E sketches who	ether the scope from			5414 is in the about 10' East There are larg	South Side, side of the West Prevaults IFO 55 P/7302-P, Vault	Herron below;"Thewalk of Market operty of 555 Ma 5 Market St. ider 5414 is roughly	St. arket St. atified as	
the original contrac changed.	a arawings (MA-25	o anu MA-31) Nave			contractor is re location for the two weeks not core drill into t	eady for a PG&I core. Also, Ple ice when sub-co he vault. This to	f PG&E when su E crew to mark the ease give Matt Hoontractor would I wo weeks notice nedule a crew to	ne erron ike to is to	

To: Turner Construction Compan Gary Krutsch

Closed

06/28/2012

07/08/2012

Answered By: Webcor Construction LP Jackson Tukuafu

07/16/2012

Potentially

Amperes Interrupting Capacity (AIC) at AWSS Location #1 (Market St.)

Jackson Tukuafu



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1022 of 1053 11/05/2013

Time:

Job:

10:53 AM 30100

umber <u>Subject</u>	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Co-Author: M Squared Construction, Inc. Aidan Foley						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
The response to RFI #U-0191.2 does not answer the question posed in the RFI.			enny Chin's (SFI	, .		
As mentioned in the previous RFI there appears to be a difference in the PG&E drawings provided in the original response and the contract drawings.		shall route the vault 1813. The contractor shall	e conduit from the he interpretation all route the con	is correct. The cone meter enclosure of MA-29 is corrected duit from meter ne contractor shall	re to ect. The	
See attached M Squared's interpretation of these PG&E drawings. Please confirm if this interpretation is correct.				he exact vault 54		
-0192 AWSS Strong Backs	Closed	01/18/2012	01/28/2012	02/08/2012	Potential	ly 🗌
From: Webcor Construction LP Colin Azevedo	To: Turner Construction Compan Steve Cunningham	Answered B	y: Turner Constr	uction Comr Jeff	Thiel	
Co-Author:						
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
Current project drawings show that this project requires two (2) 14¿ Strong Backs and two (2) 10¿ Strong Backs to be used at different locations.		Jeff Thiel 2/3 (SFDPW),	3/2012 Respons	se per Michael Sn	nith	
Olympic Foundry does not produce strong backs and were unable to include them in the order to M Squared. M				the SFWD does icks in their inven		
Squared has contacted several sources trying to locate the strong backs but have yet to find a supplier. Please advise if it is possible to purchase these from the City stock. If this is not possible M Squared will have no other option but to have them manufactured at a steel mill and this may take a considerably long time due to the lead time in the		machine sho	ps that handle la her contractors v	torch cut at local irger fittings. Sugi who have perform		
specialized steel.		Signed and d	ated 02/01/12			
-0193 2nd to 1st St - Various Conflicts	Classed	03/08/2012	02/40/2042	03/21/2012	Datastial	
-0193 2nd to 1st St - Various Conflicts From: Webcor Construction LP Colin Azevedo	Closed To: Turner Construction Compan Steve Cunningham		03/18/2012	uction Comr Stev	Potential	
Co-Author:	10. Turner Construction Compan Steve Cultilingham	Allower ou D	J. Fullier Collsti	action Comp Stev	Commingrie	
REQUEST:	SUGGESTION:	ANSWER:	Accept Sug	gestion:		
See attached sheet which details the conditions discovered in the potholing operations between 2nd Street	3332311011.			I Smith's (SFDPV	V)	



these sensors will be removed prior to trenching.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

TJPA sub-contractor, once AWSS construction begins, to separate the parking sensor equipment

1023 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost	Procee
Number	<u>Subject</u>			Status	<u> </u>	Neganea	Answered	<u>impact</u>	riocee
	mittal TG04.2-024.1 f direction on how to pr					•	ched sheets for cas listed in this R		
					Signed and [Dated (3/20/12)			
U-0194	AWSS Strong	Back Dimensions		Closed	03/13/2012	03/23/2012	03/21/2012	Potential	ly
From: Webcor C	Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered B	y: Turner Constru	uction Comr Stev	e Cunningha	ım
Co-Author:									
			SUGGESTION:		ANSWER: Jeff Thiel 3/ response,	Accept Sug 14/2012 Michael	gestion:	V)	
	eter) is smaller than o					s correct. Thank te our drawing."	you for pointing t	this out.	
M Squared belie confirm.	eves the OD should be	e 27.37". Please			Signed and c	lated 3/14/12. (S	ee Attached)		
U-0195	Parking Sense	ors on Mission		Closed	03/13/2012	03/23/2012	04/16/2012	Potential	ly
From: Webcor C	Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered B	y: Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
have installed w	discovered that either that appear to be sens lission Street. See ph	sors in the street			Demisch of the sensors foun	he SFpark Projed d on Mission Str	ail conversation work (SFMTA), any peet from 2nd Stre	parking eet to	
They existing be	etween Fremont and E	Beale in particular.			remove these	e parking sensor	Park's vendor plans s late April or ear	ly May	
	ne is installed along M sors will be in conflict.	lission St from 2nd to Please confirm			conduct AWS	SS construction v	alizes TJPA plans work in the upcon as possible to for	ning	



As a result M Squared is unable to remove the existing AWSS main from this point east.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1024 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee				
				dispose elect parking sens parking sens understands	from other construction debris so that SFPark may dispose electronic waste properly if there are any parking sensors still remaining. However, if the parking sensors cannot be separated then SFPark understands they will end up being demolished from TJPA AWSS construction work.							
J-0196	AWSS Pipe Be	edding Material	Closed	04/02/2012	04/12/2012	04/09/2012	Potentia	lly 🔲				
From: W	ebcor Construction LP	Colin Azevedo	To: Turner Construction Compan Steve Cunningha	m Answered B	y :Turner Constr	uction Comr Jeff T	Γhiel					
Co-Author:												
REQUE	ST:		SUGGESTION:	ANSWER:	Accept Sug	agestion:						
Section 02225-2 2.2 specifies that the bedding material for the new AWSS piping shall be crushed rock, however section 02723-18 2.12 contradicts this by specifying the bedding shall be pea gravel. Please clarify.				TG0402-029	/2012 Refer to s	submittal package Pea Gravel for ap	proved					
J-0197	AWSS/PG&E I	Phase 2 Duct Conflict	Closed	04/05/2012	04/16/2012	04/16/2012	Potentia	lly 🗀				
From: W	ebcor Construction LP	Colin Azevedo	To: Turner Construction Compan Steve Cunningha	m Answered B	y: Turner Constr	uction Comr Jeff T						
Co-Author:			,			•						
REQUE	ST.		SUGGESTION:	ANSWER:	Accept Sug	igestion:						
See atta 4/4/12 a AWSS M PGE's n of the ex intersect encased encased	iched photo. M Squared disco t 11.10am while excavating to Main at Howard and First. ew Phase 2 duct package is s disting AWSS main at First an tion. The top and sides of the I in concrete however the PVC to touching the AWSS Main at	sitting directly on top ad Howard duct bank are C conduits are not Conduits are	COOSECTION.	Jeff Thiel 4/ Please confire that is in con	12/2012 m that the Phas flict with the AW	e 2 PG&E duct pa SS main was insta approved Phase 2	alled at					



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1025 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber <u>.</u>	Subject			<u>Status</u>	Date Created	Date Required	Date Answered	Cost <u>Impact</u>	Proceed
Please advise on how y	ou would like to p	proceed.							
0197.1	AWSS/PG&E Pha	ase 2 Duct Conflict Loca	ation 7	Closed	04/16/2012	04/26/2012	04/17/2012	Potentia	ily 🗌
From: Webcor Construc	tion LP	Colin Azevedo	To: Turner Construct	tion Compan Steve Cunningham	Answered By	:Turner Constru	ction Comr Jeff	Thiel	
o-Author:									
REQUEST: The Phase 2 PG&E pla and clearances. It app installed in accordance requirement but not the Please confirm this with Regardless, the AWSS plan and maintain minin AWSS specification. P proceed.	ears the Phase 2 with the minimum minimum clearar n PG&E. main can not be mum clearance re	ducts were n depth nce requirement. reinstalled per equired in the	SUGGESTION:		"Per a site ins Turner, and W between the re the existing 12 confirmed. The contact with the The two option 1.) Request relocate the re there is the re- two utilities. 2.) Realign t either over or installation of a Should option soon as possii	ebcor/Obayash ecently installed elinch cast iron are duct bank corne existing AWS are to rectify this that PG&E or the existing are to recently installed quired 12-inch conduct the proposed repaired a vertical offset. No. 2 be select ble since revision	rning with SFWD i, the clearance PG&E duct ban AWSS main was duits are in direct S pipe. situation include heir contractor veduct bank in ord clearance between blacement AWSE duct bank by the ed, please advisen drawing(s) for	conflict k and ct ct critically er that en the S main ne e as the	
						the vertical offse	orepared prior to et."		

The phase two duct bank was not installed per PG&E Green Book requirements for minimum clearance between utility services, and the contractor failed to



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1026 of 1053 11/05/2013

Time:

10:53 AM

30100

Number Subject 30100 - Transbay Tr					t Center	Project				
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
					properly coor	dinate utility insta	allation.			
					Work related to this RFI response shall be performed at no additional cost to the owner.					
J-0197.2	AWSS-PG&E	Phase 2 Duct Conflict		Closed	04/23/2012	05/03/2012	05/02/2012	Potential	lly	
	cor Construction LP	Colin Azevedo	To: Turner Construction Compa	an Steve Cunningham	Answered By	:Turner Constru	ction Comr Jeff 7	Γhiel		
Co-Author:										
REQUEST			SUGGESTION:		ANSWER:	Accept Sug				
Through detailed analysis and discussions with PG&E during the weekly AWSS coordination meetings it has been determined that it would be infeasible to relocate the					Jeff Thiel 4/2 response,	23/2012 Michael	Smith¿s (SFDP\	N)		
PG&E duct	thinled that it would be line bank as requested in opt c RFI#U-0197.1.				"The contractor shall install a vertical offset under the PG&E duct bank using four (4) 22 $\%$ - degree elbows					
	vide details for realigning in option two in the respons				as required to clearance bet main and the Please refer t	n AWSS				
					Signed and d	ated 4/16/12				
					This work sha the TJPA.	all be performed	at no additional c	cost to		
J-0198	Vault Drainag	je		Closed	04/09/2012	04/09/2012	04/16/2012	Potential	lly	
From: Web	cor Construction LP	Colin Azevedo	To: Turner Construction Compa	n Steve Cunningham	Answered By	:Turner Constru	ction Comr Jeff 7	Γhiel		
Co-Author:										
REQUEST	:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
	et MA-26 the 1" discharge labeled as stainless steel				Jeff Thiel 4/1 response,	11/2012 Michael	Smith's (SFDPW	/)		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1027 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

mber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
const is req 2. Sp of bal Howe	described as type K copper tube ruction note #7. Please confirm vuired. Dec Section 02728-23 Paragraph I float valves as shown on the cover the float valves are not show e confirm if these ball float valves	what type of material E. calls for the use instruction drawings. in on the drawings.			304 stainless 2.) The contriball float valve val	s steel. ractor shall disreves for the three aults in this contributions to be a steel as the sump pumps to be a steel as the sum of the sum	er manhole shall b gard the installatic (3) concrete moto act due to the inst be installed at all t	n of the rized allation	
					Signed and I	Dated 4/10/12			
0199	PG&E Vault Co	onflict with North East Tie	In @ Location 7	Closed	04/16/2012	04/26/2012	04/23/2012	Potential	ly
From:	Webcor Construction LP	Colin Azevedo	To: Turner Construction C	Compan Steve Cunningham	Answered B	y:Turner Constr	uction Comr Jeff 1	hiel	
o-Author:									
Today joint a that th close the le	JEST: y while setting up to remove and at the North East tie in at location he existing PG&E vault adjacent and E. Mitchell would not be able ad joint. e advise how M Squared is to present the set of the set	7 it was discovered to the tie in is too e to properly caulk	SUGGESTION:		repsonse, "The contract facilities in o minimum cle PG&E electr Should PG&E the contract east on How (GHB joint freducing adaconnect the existing cast	etor shall request rder that there is larance between ical vault. E not be able to or shall excavate and Street to the om the 12"x10" of aptor for the 10-in new ductile iron iron main. The of spigot pipe joint	PG&E to relocate the required 12-in the AWSS main a relocate their facil approximately 12 next existing pipe cast iron GHBxGH nech gate valve) in AWSS main to the contractor shall locate before after the	their ches and the ities, feet joint spigot order to	
					Signed and	dated 4/16/12			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1028 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

TJPA would be notified.

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0200	AT&T Vault Co	onflict at Location 7		Closed	04/16/2012	04/26/2012	04/23/2012	Potential	ly 🗌
From: Webco	r Construction LP	Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
West tie in of	iscovered that the AT&T Location 7 is in conflict of ods to be installed at this	with the new AWSS			Jeff Thiel 4/2 response,	:0/2012 Michael	Smith's (SFDP\	V)	
Please advise how M Squared is to proceed.					electrical vauli required in ord	t or remove port der that there is rance between	ATT to relocate ion of the vault verthe required 12-the AWSS main	vall as inches	
					Signed and da	ated 4/16/12 (se	e attached)		
					Contractor to regarding this		ordination with A	T&T	
J-0200.1		onflict at Location 7		Closed	04/24/2012	05/04/2012	04/24/2012	Potential	ly
	r Construction LP	Colin Azevedo	To: Turner Construction Compan	Jeff Thiel	Answered By	Turner Constru	uction Comr Jeff	Thiel	
Co-Author:									
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
the coordinat	e to RFI#U-0200 did not propertion efforts and course of ised response.					4/2012 Michael nse to RFI U-02	Smith's (SFDP\ 00,	V)	
See attached	email chain for additiona	al information.			electrical vauli required in ord	t or remove a po der that there is rance between	ATT to relocate ortion of the vaul the required 12-the AWSS main	t wall as inches	
					Signed and Da	ated 4/16/12 (Se	ee attached)		
					MSquared, W Squared woul	O and Turner. Id attempt to dea	neld on 4/18/12 was agreed that directly with the	at M e utility	



Our preference is to use a 10" steel to 10" HDPE coupling and then install a 10" HDPE to 12" HDPE Reducer. As the O.D of the existing sludge is unknown it will cause significant delay in the ordering of the 10" steel to 12" steel

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1029 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0201	AWSS - Counter	sunk Bolts in 14-Inch Du	ctile Iron Pipe Strong Back Plate	Closed	05/04/2012	05/14/2012	05/08/2012	Potential	ly 🗌
	cor Construction LP juared Construction, Inc.	Jackson Tukuafu Aidan Foley	To: Turner Construction Compa	an Steve Cunningham	Answered By	Turner Constru	uction Comr Jeff	Thiel	
The sizing of Strong Back configuration nut to adjoin are a specifically Please constainless S	crence attached excerpt from D DRAWING III, drawing No. chart for 14" diameter pipe reck Type B. The Type B Strongon requires the use of a counn connecting DI pipe. The coal order product and will have for each piece. If irm it is acceptable to use the steel bolt and nut without the what is used and shown in Type DRAWING III.	AWSS 3. equire the use of g Back tersunk bolt and buntersunk bolts to be fabricated the typical 316 countersink,	SUGGESTION:		response, "-The propose -The Contract outside diame strong back fa in use."	ed change is aco or shall field ver eter at each loca	Smith's (SFDPW ceptable. rify the actual pip ation prior to havin differing pipe dia	e ng	
J-0202 From: Webo	SLUDGE LINE - cor Construction LP	Unknown Subsurface St i Jackson Tukuafu	ructure at 301 Mission To: Turner Construction Compa	Closed an Steve Cunningham	06/07/2012 Answered By	06/17/2012 AECOM Techi	06/12/2012 nical Servic∈Eric	Potential Zagol	ly 🗌
Detail 3 on detail for 12 to 12" sleet	er to attached detail 3/U-5001 sheet U-5001 which shows t 2" HDPE to existing 10" steel t reducer and then using a 12 pling in order to connect new	he connection , uses a 10" steel " steel to 12"	SUGGESTION:		ANSWER: Proposed mod	Accept Sug			



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1030 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
reducer as we will have to get the OD a point and then order the material. Even material, it will be extremely difficult to get the trench to weld the reducer on to the result of the amount of utilities which we potholing.	with this piece of jet a welder into exiting pipe as a							
The use of the 12" HDPE to 10" HDPE the need for a welder in the trench.	reducer eliminates							
-0203 AWSS - Compac	ction Method for Trade Pa	ackage TG04.2	Closed	06/08/2012	06/18/2012	06/11/2012	Potential	ly 🗌
From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Co	mpan Steve Cunningham	Answered By	City and Coun	ty of San Fr Mich	ael Smith	
co-Author:								
REQUEST: Specification section 02225 Section 3.7 of flooding or jetting in order to gain the of compaction in the AWSS pipe trench. However due to the amount of utilities at in the trenches it will not be possible to levels of compaction under and around utilizing the methods referenced in the snot gaining the necessary compaction a possible that voids will occur over time to be come unsupported and the street. We are requesting the use of jetting (as Section 703.08 of the City and County of Standard Specifications) as a method to necessary levels of compaction for the Jetting has previously been utilized as a method of gaining compaction levels on Transit Center Utility Relocation package.	necessary levels and duct packages gain the necessary these utilities by specifications. By stround utilities it is causing the utility surface to sink. described in of San Francisco o gain the AWSS trenches. a successful a several other es.	SUGGESTION:		"Water jetting locations whe compaction by compaction o	to compact soil re there are adja y vibratory meth	FDPW) response will be approved acent utilities that lods. Use vibrato is clear of utilities	I for t prevent ry	
Please confirm that this proposed meth- for use on this trade package. If not, please								

alternative method for gaining the necessary compaction.



the duration listed. Or alternatively allowing a 5%fluctuation in the pressure target for the test over 1

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1031 of 1053 11/05/2013

30100

Time: 10:53 AM

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Fron	n: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compar	n Gary Krutsch	Answered B	y: Webcor Const	ruction LP Jacks	son Tukuafu	I
Co-Autho	r:								
REC	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
of floor of the action of the	cification section 33 34 10 (3.1, C¿ boding or jetting in order to gain the compaction in the HDPE pipe trenchamount of utilities and duct packag not be possible to gain the necessal paction under and around these ut nods referenced in the specification necessary compaction around utilit voids will occur over time causing the unsupported and the street surfaction 703.08 of the City and County necessary levels of compaction for the necessary levels of compaction for the necessary levels of compaction levels of sit Center Utility Relocation packages confirm that this proposed mether that this proposed mether that the package. If not, plantive method for gaining the necessary method for	e necessary levels a. However due to es in the trenches it ary levels of ilities by utilizing the as. By not gaining ies it is possible the utility to be ce to sink. ing (as described in of San Francisco to gain the AWSS trenches. a successful a several other ges (see RFI0203). and is acceptable ease provide an			Void. See Ri	FI U-0206 for res			
-0205	SLUDGE LINE	- HDPE Hydrostatic Testing		Closed	06/22/2012	07/02/2012	07/05/2012	Potential	lly 🗌
Fron	n: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compar	n Gary Krutsch	Answered B	y:Turner Constru	uction Comr Jeff T	hiel	
Co-Autho	r:								
REC	QUEST:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ase refer to spec section 33 34 10-3	3.1 H			Eric Zagol 7	/3/2012 It is acc	eptable to perform		
docu pipe be fi 115 _l invo expa wate	method of HDPE pipe testing lister uments differ from the testing method manufacturer: The specifications silled 24hrs in advance and then the position of 4hrs, The manufactured filling the line with pressure for ansion etc. in the pipe and then adort, per Table 2 of the attached docutional water has been added the pi	ods provided by the call for the pipe to pipe pressurized to ufacturer's method r 3 hrs to allow ding additional ument. Once this			recommenda based on the	tions. The test p	E pipe manufactur hase shall be perf Phase - Alternate 3-hour test.	formed	



Page: Date:

Job:

1032 of 1053

Time:

11/05/2013 10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subiect Status Impact Proceed hour. Please see attached pipe manufacturer's data attached and provide direction. M Squared believe that the testing method in the specifications is not suitable for HDPE due to its flexibility and would be more suited to steel pipe. U-0206 SLUDGE LINE - Compaction Method for Trade Package TG04.6 Closed 06/22/2012 07/02/2012 07/05/2012 Potentially From: Webcor Construction LP Jackson Tukuafu Answered By: Turner Construction Comp Jeff Thiel To: Turner Construction Compan Gary Krutsch Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Specification section 33 34 10 (3.1, C-7) forbids the use of Zagol 7/5/2012 Flooding or water jetting is not an flooding or jetting in order to gain the necessary levels of acceptable method of compaction for HDPE pipe compaction in the HDPE pipe trench. However due to the trench backfill. amount of utilities and duct packages in the trenches it will not be possible to gain the necessary levels of compaction In limited areas, under and around adjacent utilities, under and around these utilities by utilizing the methods consider using a low strength, low water content referenced in the specifications. By not gaining the concrete fill material. Submit proposed alternate necessary compaction around utilities it is possible that backfill material and mix design for review. voids will occur over time causing the utility to be come unsupported and the street surface to sink. M Squared is requesting the use of jetting (as described in Section 703.08 of the City and County of San Francisco Standard Specifications) as a method to gain the necessary levels of compaction for the Sludge Line trenches. Jetting has previously been utilized as a successful method of gaining compaction levels on several other Transit Center Utility Relocation packages (see RFI0203). Please confirm that this proposed method is acceptable for use on this trade package. If not, please provide an alternative method for gaining the necessary compaction.

U-0206.01

SLUDGE LINE - Compaction Method for Trade Package TG04.6

Closed

07/15/2012

07/05/2012

07/17/2012

Potentially

Answered By: Turner Construction Comp Jeff Thiel



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1033 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Co Author: M.Co	and Canataustics Inc	Aiden Faler							
· ·	ared Construction, Inc.	Aidan Foley							
REQUEST:	land december and according of	CO as South a Course Co	SUGGESTION:		ANSWER:	Accept Sug		00.1	
	d previously approved back ckage TG0434-006.	ttill mix designs in					e mix design with ater than 100 psi.		
	y if either of these can be utioned in the response to F					17/2012 If a con mix design for a	crete fill material pproval.	is to be	
J-0207	AWSS - Connec	ction on Market Street		Closed	07/10/2012	07/20/2012	07/11/2012	Potential	ly
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Compar	n Gary Krutsch	Answered By	:Transbay Join	t Powers Au Jenn	ifer Tongsor	1
Co-Author: M Squ	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ating to expose the existing				7/11/2012 Mid	chael Smith's (S	FDPW) response) ,	
Market Street M Squared's crew discovered that a portion of the existing cast iron main had already been abandoned in place. They then discovered a ductile iron main that is running parallel to the cast iron pipe.					the (E) 14" DI	pipe on the East	et the new 14" DI per est end of the exca e original CTEL lo	avation	
this is the lin proceed with	on main is the portion of pe we should now be conne the work. See attached ph	cting to in order to notos. Please note					ect new pipe joints joint deflection a		
that additional unforseen co	al costs will be incurred, as andition.	a result of this			Signed and d	ated 7/11/12. (S	ee Attached)		
Please advis	e on how M Squared is to	proceed.			Pending TJP/ forthcoming.	A approval, a CF	R for additional co	ist is	
	AWCC Classes	and large with Damastin	Water Line on Market Street	Classel	07/40/2042	07/00/0040	07/44/0040	Datautial	
J-0208 From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Compar	Closed	07/10/2012 Answered Ry	07/20/2012	07/11/2012 t Powers Au Jenn	Potential	- 🗀
	ared Construction, Inc.	Aidan Foley	10. Turner Construction Compar	ii Gary Ridiscii	7410410104 2	• Hallsbay Jolli	t i owers Ac seriii	ner rongson	ı
REQUEST:	,		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	ating west of the gate valve	vault location on	5555E511514.		_		FDPW) response) .	
Market Stree iron water lin	t M Squard's crew discove e sitting on top of the exist This 8-inch line also appe	red an 8-inch cast ing AWSS main to			"-The Contraction relocate their	ctor shall reques (E) 8" low press	at the SFPUC SF\ sure water piping of	ND in order	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1034 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transhay Transit Center Project

JOINT VEN	TORE		30100 - 1ran	sbay Trans	sit Center	Project			
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
1. As a resul	t of this line M Squared is	s unable to install			utilities.				
the new AWSS with the necessary clearances. Aside from the clearance issues M Squared can no longer install the 14-inch reducer where it is required. M Squared will be able to relocate the reducer which will then require a					 -Please coordinate with SFWD prior to removing the (E) concrete thrust blocks on the SFWD line. Support SFWD line as required to prevent movement." 				
able to relocate the reducer which will then require a longer spool piece.					Signed and D	ated 7/11/12 (S	ee Attached)		
Please advise	e how M Squared is to pro	oceed.			Pending TJP/ forthcoming.	A approval, a CF	R for additional co	st is	
pipe that mak at this vault to to remove the restrained wit	In line also has three conce it impossible to install to cation. Please confirm these kickers temporarily, a hite rods, for construction e reinstalled once the wompleted.	he pipe and fittings nat it is acceptable s they are already n purposes. The							
U-0208.01	AWSS - Cleara	nce Issues with Domestic	Water Line on Market Street	Closed	07/24/2012	08/03/2012	08/03/2012	Potential	lly
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By	y: Turner Constru	uction Comp Jeff 7	Γhiel	
Co-Author: M Squa	red Construction, Inc.	Aidan Foley					_		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
	nse to RFI # U-]0208, M eers on site to discuss the ch line.				the SFWD is		Helminiak of the socate the 8" wate 5/12.	- ,	
relocating the to this issue.	this coordination, SFWD 8-inch line was the best M Squared has excavate to perform the repairs.	possible resolution							
As of 7/23/12 SFWD.	no relocation work has b	een performed by							

U-0209 **AWSS - Misison and Anthony Valve Vault**

Jackson Tukuafu

Please provide M Squared with a schedule for this

relocation.

From: Webcor Construction LP

Closed

08/05/2012

07/26/2012

08/07/2012

Potentially

Answered By: Turner Construction Comp Jeff Thiel To: Turner Construction Compan Gary Krutsch



Please advise on how M Squared is to proceed.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1035 of 1053 11/05/2013

Date: Time: Job:

2: 10:53 AM 30100

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
o-Author: M Squa	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
See attached	documents and photos.			Have SFWD restrain the existing 90 degree bend so			se per Chi Yu of	SFWD,	
M Squared has potholed this location for the AWSS valve vault. It has been confirmed that the gas line is abandoned and can be removed and that the 12" water is also abandoned. In order for the vault to be constructed here M Squared will need to remove the abandoned 12" line; however, removing the 12" line will significantly weaken the live 8" line that runs on Anthony as the 90 degree bend on the 8"			removed. UPon completion of	that the abandoned lines and redwood plug can be removed. UPon completion of the valve vault M Squared can our a new concrete kicker if required by SFWD.		vater in the pipe to 8" main was beket restraint join 2" and 8" aban blug. Provide admain."	abandoned line to and does not se built quite recently at. No kicker is re doned lines toge equate vertical so	rve as a y using quired. ther with upport	
line is suppor abandoned lir	ted by a redwood block re	esting against the			oo anaonoa		1 a dated 1700/12		
	r Construction LP	nter Conflict at 1st and Mis Jackson Tukuafu	sion Street To: Turner Construction Comp	Closed ean Gary Krutsch	07/26/2012 Answered By	08/05/2012 Turner Constru	08/10/2012 uction Comr Jeff	Potential Thiel	ly
o-Author: M Squa	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug			
While performing the preliminary excavation across 1st and Mission street Intersection, M Squared's crew exposed a 12" water line that is running on top of the AWSS line for approx half of the intersection. Due to other utilities being present we are unable to excavate down to the AWSS main.				"SFWD will cu	ut and cap both one	ends of the 12" li nd restore the 12 new AWSS line	ne that 2" main		
M Squared met with SFWD crews on site and they have confirmed that the line is active, despite them agreeing with M Squared that the line sounded very hollow (an indication that it may be dead)					SFWD will red starting this w		advance notice	orior to	
unknown utilit replace the ex	elieves that despite the pr ties they will still be able to xisting AWSS main if this	o remove and							



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

interfering utilities that are unknown after all specified procedures or other non destructive methods

1036 of 1053 11/05/2013 10:53 AM

30100

Date: Time: Job:

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proce
-0211	AWSS - Valve V	ault at Sta 9+05		Closed	08/06/2012	08/16/2012	08/14/2012	Potentially	,
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered B	:Turner Constru	ction Comr Jeff	Thiel	
Co-Author: M Squa	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer t current condi	to that attached photo and tion.	schematic of				vn utilities to relo valve vault and	cate as required piping.	to	
only viable lo	as identified the space at S cation for the gate valve in eral utilities remain in conf	that area.				to be remarked f emaining unknov	or assistance in wn lines.		
location:	erai utilities remain in com	iict with this			Michael B. Sr	mith SFDPW/JD	C/EME - 08-13-1	2	
already began during AWSS - The 3 x 2" s active by PGI	nes are plastic and the corn n with MCI to move these 6 Main installation Steel Electrical lines have E representatives ng lines are unknown.	lines 2' south							
Please advise proceed.	e on how you would like M	Squared to							
-0212	AWSS - Various	Conflicts - Sta 9+12 to P	G&E Vault	Closed	08/07/2012	08/17/2012	08/30/2012	Potentially	,
From: Webco	r Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered B	:Turner Constru	ction Comp Jeff	Thiel	
Co-Author: M Squa	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Mission Stree	ning preliminary trenching et Intersection, M Squared vn and unmarked utilities.	's crew discovered			information o the Contract	n the unidentified	o not have any fu d utilities not sho e proceed as follo	wn on	
the ability to i Please Identi	e of these unknown utilities nstall shoring and install for fy the utilities in this section removed in order for M So	ull pieces of pipe. on and determine			compare thos mark and cor agencies that	se who marked wonduct follow up candidate and the didn't mark. Als the lights and DTIS	gistered with US vith those that did alls to the utilities o, contact SFPU comm and SFM	dn't s and C BLHP	
					EXISTING Unspecification TRENCHING	FILITIES NOT IN 020630 section 4 OPERATIONS	on 00 08 10 sect IDICATED and 4.1 POTHOLING paragraph C, ple order to identify a	AND ase	



Page: Date:

1037 of 1053 11/05/2013

10:53 AM 30100

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Time: Job:

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed

proposed by the contractor have been exhausted

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or deenergized, cut and cap utility at the demolition demarcation line shown in the drawings

U-0213 AWSS - Antenna At Location #7

From: Webcor Construction LP Jackson Tukuafu

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

Co-Author:

REQUEST:

Sheet MA - 22 of the contract drawings shows the antenna for location #7 being mounted on the existing street light pole.

Sheet MA - 31 shows that the antenna is mounted on an antenna pole in the sidewalk.

Please clarify where the antenna pole is to be located.

Closed

Closed

09/21/2012

09/11/2012

09/12/2012

Potentially

Potentially

Answered By: Turner Construction Comr Jeff Thiel

ANSWER: Accept Suggestion:

Jeff Thiel 9/12/2012 Response per Kenny Chin, (SFDPW)

"What is showing on Sheet MA-31 is correct. The contractor shall provide antenna pole and atenna shall be mounted to this antenna pole."

U-0213.01 AWSS - Antenna at Location #7

From: Webcor Construction LP

Jackson Tukuafu To: Turner Construction Compan Gary Krutsch 09/13/2012 09/23/2012 09/20/2012

Answered By: Turner Construction Comp Jeff Thiel



On Friday 28th September, M Squared met with MUNI

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1038 of 1053 11/05/2013 10:53 AM

30100

Date: 1°

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
		= .							
So-Author: M So	quared Construction, Inc.	Aidan Foley							
REQUEST			SUGGESTION:		ANSWER:	Accept Sug			
87,208 and	er to RFI U-0213 and SFDPW d 87,212.	drawing File No.				dard Detail for S undaiton of the	San Fransisco ligh antenna pole.	t pole is	
the contract detail for S	ail for the antenna pole founda ct documents, please advise i San Francisco Light Poles is a of the antenna pole indicated	f the standard n acceptable			Kenny Chin 9	-17-12			
-0214	SLUDGE LINE -	Air Release Valve at Sta 17	+25	Closed	09/28/2012	10/08/2012	11/09/2012	Potential	ly
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constr	uction Comr Jeff T	hiel	
Co-Author: M So	quared Construction, Inc.	Aidan Foley							
REQUEST	r:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
The air release valve (ARV) installed on Mission St. at Sta 17+25 is currently only accessible via 12" ductile iron pipe with a 12" cap. M Squared is unable to construct the air release valve manhole per detail #1 on Sheet U-5001 due to the presence of the concrete wall that is in place.					attached draw "proposed AR	ving "U-3005 ma V vault in Missi constructed and	e location shown arkup.pdf" & the sl on St.pdf" after th I existing 12" AWS	ketch e new	
iron in plac	advise if it is acceptable to le ce or install a larger diameter 6") and customize a cap for t	ductile pipe			Coordinate wi	th SFDPW for s	schedule.		
Alternativalve mani	tively please provide a detail f hole	for the air release							
-0215	AWSS - Hetch H	etchy Duct Bank Conflict		Closed	09/28/2012	10/08/2012	10/12/2012	Potential	ly
From: Web	ocor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constr	uction Comr Jeff T	hiel	
Co-Author: M So	quared Construction, Inc.	Aidan Foley							
REQUEST	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	0 on Mission St (Anthony St i WSS Main runs through a Het				Response per	r Michael Smith	(SFDPW),		
bank. Ther	re are several concrete encas	ed ducts on top of			"-Abandon (E) 12" AWSS Ma	in as described al	bove.	
	Main and several concrete e AWSS main.	ncased ducts			-F/I vertical of the attached s		P Duct Bank as sh	nown on	



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1039 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Underground Service AWSS be abandon install the new AWS Hetchy duct bank. Please advise how with this conflict.	1-ft on each side SS Main over or u	of the duct bank and nder this Hetch			A formal Cado	ted 10/11/12. (See attached) drawing is forthcoming. approval, a CR for additional cos		st is	
U-0216	AWSS - Gate	Valve at Station 1+09		Closed	10/04/2012	10/14/2012	10/15/2012	Potential	ly 🗌
From: Webcor Cons	struction LP	Jackson Tukuafu	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Turner Constru	uction Comr Jeff	Γhiel	
Co-Author: M Squared Co	onstruction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Please refer to attac	Please refer to attached drawing MA-13.				Jeff Thiel 10. (SFDPW),	/11/2012 Respo	nse per Michael	Smith	
Due to the location of existing utilities M Squared is unable to install the gate valve at Sta 0+90, as shown on sheet MA-13. Please confirm it is acceptable for M Squared to install the valve at Sta 1+90. M Squared has confirmed there are no conflicts at Sta 1+90.					"This gate val discussion in two flanged x	the field last wee MJB adaptors w	cceptable per our ek. Please note thill require stop unecting D.I. Pipe		
					Signed and D	ated 10/10/12. (See attached)		
U-0217	AWSS - 16" G	ate Valve at Sta 5+00		Closed	10/12/2012	10/22/2012	10/15/2012	Potential	ly \square
From: Webcor Cons	struction LP	Robert Kjome	To: Turner Construction Comp	oan Gary Krutsch	Answered By	:Turner Constru	uction Comr Jeff	Γhiel	- 🗀
Co-Author:									
REQUEST: Drawing Reference:	: MA-14		SUGGESTION:		ANSWER: Jeff Thiel 10 (SFDPW):	Accept Sug /15/2012 Respo	gestion:	Smith	
Please confirm that the 16" gate valve at Sta 5+00 can be deleted and is not required.					"This gate val	ve and concrete he scope of wor	valve vault can l k."	pe	
					Signed and D	ated 10/15/12. (See Attached)		



PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1040 of 1053 11/05/2013

Date: Time: Job:

-Fill vault concave spaces with CDF over sand backfill

10:53 AM 30100

				<i>J</i>					
Number	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
					Pending TJP <i>A</i> issued.	∖ approval, a de	ductive CR may b	e	
J-0218	AWSS - PG&E D	Ouct Bank Conflict at Sta.6	i+05 to Sta. 6+25	Closed	11/06/2012	11/06/2012	11/15/2012	Potential	ly
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Turner Constru	ction Comr Jeff T	hiel	
Co-Author: M Squar	red Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
sitting on top of unable to insta- attached photo AWSS penetra Squared to be	6+05 and Sta 6+25 there in the AWSS pipe; as a result the new AWSS main at the new AWSS main	sult, M Squared is this location. See vered due to the n order for M WSS main through	PG&E remove concrete end lift the PVC conduits up so the pipe at the existing align	that M Squared can install	this utility cont - Coordinate raising conduit proivde 6-9" c	flict. with PG&E for re	's suggested solu emvoing concrete stall AWSS facilitie el Smith	and	
Please advise									
J-0219	AWSS - PG&E V	ault #1313 Conflict with 4	x4 Support Post	Closed	11/06/2012	11/16/2012	11/29/2012	Potential	ly
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Co	ompan Gary Krutsch	Answered By	Turner Constru	ction Comp Jeff T	hiel	
Co-Author: M Squar	red Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Mission Street removed and l	E completed work on Vau t. The existing AWSS pipe M Squared is ready to ins attached sketch (current co	e has been tall the new AWSS			(SFDPW) "Per field mee	ting today, supp	se per Michael Sr port AWSS pipe th		
4"x4" supports	Squared to install the AWs installed by ARB crews reportion of the vault wall wisupport.	equire removal.			-Support (N) 1 with a CDF "c		over vault under h		
Please advise	if this is acceptable.				- Backfill pipe	with ietted sand	to vault overhand	a.	



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1041 of 1053

Time: Job:

10:53 AM 30100

umber Subject		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee	
			through (N) 8 the vault."	through (N) 8" Diameter holes chipped into the top of the vault."				
			Signed and o	dated 11/20/12.	(See Attached)			
			Per meetings work.	s with PG&E, M	Squared to perfor	m this		
-0220 AWSS - Mult	iQuip Sump Pump	Closed	01/23/2013	02/02/2013	01/29/2013	Potential	ly	
From: Webcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan Gary Krutsch	Answered B	y:Turner Constr	uction Comp Jeff	Γhiel		
Co-Author: M Squared Construction, Inc.	Aidan Foley							
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug				
Please refer to the attached excerpt 02728 AWSS Motorized Gate Valve product data for the MultiQuip Sump	Equipment and		pump will be	•	et specified subme stallation in the AV			
As per coordination between Aidan Smith, please confirm the attached Pump: ST2037 is an acceptable alternanufacturer Flygt, Model 2610 in s 02728- 2.13,A.	MultiQuip Sump rnate to the specified		Michael B. S	mith SFDPQ/ID	C/EME on 01/29/1	3		
Please note the MultiQuip Sump Pu submitted for approval in WOJV sub TG04.2-031 - AWSS - MultiQuip Su	mittal package							
-0221 AWSS - Pipe	Joints in Utility Vaults	Closed	01/31/2013	02/10/2013	02/06/2013	Potential	ly	
From: Webcor Construction LP	Robert Kjome	To: Turner Construction Compan Gary Krutsch	Answered B	y:Turner Constr	uction Comr Jeff -	Γhiel		
Co-Author: M Squared Construction, Inc.	Aidan Foley							
REQUEST:		SUGGESTION:	ANSWER:	Accept Sug	gestion:			
Per recent field direction provided by M Squared Construction, where pos permitted inside utility vaults (i.e PG	sible no joints are		Jeff Thiel 2/ (SFDPW),	/5/2013 Respons	se per Michael Sm	nith		
This will require an additional restrai location.	•		utilities cons	tructing their fac	WD and SFDPW illities over/around notify engineer in	the pre-		



Webcor/Obayashi Joint Venture

Page: Date:

1042 of 1053

11/05/2013 10:53 AM

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Time: Job: 30100

			oo loo Transbay	1141151		10,000			
Number	Subject		Stat	tus	Date Created	Date Required	Date Answered	Cost Impact	Proceed
Please cor	nfirm this is the intent.				vaults due to the	d joints be requi he length of vaul ated 2/1/13. (See	, ,	in	
U-0222	AWSS - Flangec	d Spools for Hydrants	Clos	sed	01/31/2013	02/10/2013	02/06/2013	Potentiall	y
From: Web	ocor Construction LP	Robert Kjome	To: Turner Construction Compan Gary Kru	tsch	Answered By:	Turner Constru	ction Comr Jeff T	hiel	
Co-Author: M So	quared Construction, Inc.	Aidan Foley							
REQUEST	Γ:		SUGGESTION:		ANSWER:	Accept Sugg	jestion:		
Hydrant at Contract d directly to dis much lowe connect the Hydrant at Due to the install the existing, in the breeze higher than	Irawings show the 45deg bend the rolled down tee. However er than the main and it will not them directly together. Sta 9+00 e changes per RFI U-190 M So new fire hydrant in the same I	r the hydrant lateral t be possible to quared are to location as the lrant lateral will be e grade of the main	Hydrant at Sta 6+30 Suggestion - custom fabricate a HPW flange flanged spool for to connect to the tee and the bend. Hydrant at Sta 9+00 Suggestion - In order to connect the tee to the bend a HPW flanged x flanged spool, custor fabricated will be necessary.	ne 45deg ne 90deg	(SFDPW), "-Hydrant at staunforeseen fiel -Hydrant at staconversations required at this	/2013 Response ation 6+30 - Pro ld conditions. tion 9+00 - Per with M2, Pipe sp	e per Michael Smi		
	nfirm M squared's suggested I is to proceed	mediation is how							

REQUEST:

From: Webcor Construction LP

Co-Author: M Squared Construction, Inc.

U-0223

The contract drawings show M Squared replacing the existing 10" gate valve on Mission at 2nd St with a new 16" gate valve. Due to a PG&E conflict M Squared will

AWSS - Electrical Sevice at 2nd Street Intersection

Jackson Tukuafu

Aidan Foley

To: Turner Construction Compan Gary Krutsch

Closed

SUGGESTION:

Answered By: Turner Construction Comr Jeff Thiel

ANSWER: Accept Suggestion:

02/16/2013

02/06/2013

Jeff Thiel 5/20/2013 Existing PG&E service has been disconnected and removed. See attached drawing for new routing of PG&E power service connection from

05/20/2013

Potentially



line to the catch basin.

Please confrim that this acceptable.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1043 of 1053 11/05/2013 10:53 AM

30100

Time:

Job:

30100 - Transbay Transit Center Project

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
Street. In moving the vault the existing electrical		have to relocate vault location. M			enclosure. Please provid with installing	de pricing propos	int to a new PG&E sal for work associ on from PG&E r enclosure as sh	iated	
existing electrical cable and conduits can be removed. Once the new vault has been constructed M Squared can reestablish the service to the new vault location. These were previously thought to be street lighting					the attached until pricing h	the attached drawing. Do not proceed with this work until pricing has been agreed to. Reconnection for service at this location has been			
reestablish the service to the new vault location.						d from SFPUC (nis location has be via PG&E) to be a		
The service is curre and PG&E have ind needs to be handled	licated that any impa	ict to the service							
Please advise on ho	ow to proceed								
0223.1	AWSS - Electric	al Service at 2nd Street		Closed	07/17/2013	07/27/2013	07/19/2013	Potentia	lly 🗌
From: M Squared Co	onstruction, Inc.	Aidan Foley	To: Turner Construction Compan G	arv Krutsch	Answered B	y :Turner Constru	uction Comr Jeff T	hiel	
o-Author:			·	,			•		
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
Reference: Attached	d Drawing				Response pe	r Michael Smith	(SFDPW),		
Per the response to new PGE meter peo installed at 2nd and However the drawin old AWSS vault loca by M Squared show	Mission. Ig provided in the restation. See attached	ain line was to be sponse showed the drawing prepared			provided that specs. The p	the line slopes t roposed electrica rovided that it's i	ing is acceptable to the catch basin all conduit shall be installation shall co		
We have establishe	ed conduit routes for	both the new			Signed and D	Pated (see attach	ned)		



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Time:

Job:

AWSS Hydrant lateral pipe, blocking access to the

next two downstream lead joints, the contractor shall

locate a lead joint South of the conflicting duct bank

existing lead joint. The contractor shall then furnish and install ductile iron pipe and fittings to this accessible location in order to connect to the existing

cast iron line. The alternate is for AT&T to relocate

that is readily accessible for their plumber to melt the

1044 of 1053 11/05/2013

10:53 AM 30100

30100 - Transbay Transit Center Project

lumber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
J-0224	AWSS - Pipe Ali	gnment between Fremont to	Beale	Closed	02/06/2013	02/16/2013	02/11/2013	Potentia	ily 🗌
From: Webc	or Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	:Turner Constru	ction Comr Jeff	Γhiel	
Co-Author: M Squ	uared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
	AWSS main on Mission St & Beale St is running throug				Jeff Thiel 2/8 (SFDPW)	3/2013 Respons	e per Michael Sm	nith,	
that the pipe By having P believes the	the AWSS main to 16" there will not fit back through the GE move/alter their facilities are will be significant project witably have to install the ne	e structures. s M Squared delays. M Squared			acceptable pro	ovided that there alve frames/cov	alignment North e are no utility co vers do not end u tential flooding of	nflicts p	
M Squared the new 16" vaults. See further north know yet if a alignment n	believes it is possible to shift main further north to avoid attached potholing results from the existing main. Multiple additional fittings will be need orth, and then realign it back will not be known until the total process.	t the alignment of all of these PGE om potholing Squared does not ded to shift the court at Beale			olgrica and b	ated 2/8/13. (Se	e Allaoneu		
shift north a	irm it is acceptable for the Ass currently coordinated to a valut conflicts.								
J-0225	AWSS - Lead Jo	int Clearances at Sta 6+30		Closed	02/08/2013	02/18/2013	02/13/2013	Potentia	llv 🗀
	or Construction LP	Jackson Tukuafu	To: Turner Construction Compan				uction Comr Jeff		·y
	uared Construction, Inc.	Stewart Mitchell	191 Turner Conditional Company	Cary Riacon	7	- runner constre	ouon compoon	THO	
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	nestion:		
	to attached W/O Sketch SI	K-U-0225 and	Field condtions appear to indicate existing laterals clears over the set there is a possibility of a full length	wer, at the next joint	_		se per Michael S	mith	
The newly installed fire hydrant lateral at station 6+30 is to connect to the existing AWSS main; however, the existing			takes you closer to the curb. Ther switch out the entire lateral to the f	e is a possibility to					

around the pipe required is 1/4".

The existing fitting is part of a series of fittings needed to raise the fire hydrant lateral up in elevation to avoid a

main pipe is "oval" shaped and the new pipe is circular.

clearances for inserting the "hokum" to draw the lead in

when heated are not achieved. The minimum clearance

As a result of the differing pipe shapes, the minimum



U-0226

From: Webcor Construction LP

RFI#U-0226 - AWSS - PG&E Duct Bank at 1st Intersection

Jackson Tukuafu

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

1045 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

		Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
			fact that there pipe remainin contractor sha remainder of t	will be a minimg in the hydrantall provide a costhe cast iron hyd	um amount of cas lateral run, the t for removing the drant lateral and fo	st iron	
			Signed and D	ated (See Attac	hed)		
int Clearances at Sta 6+3	30: SFWD Decision to Replace Full Later	al Closed	03/11/2013	03/21/2013	03/28/2013	Potential	lly 🔲
Jackson Tukuafu	To: Turner Construction Compan Ga	ry Krutsch	Answered By	:Turner Constr	uction Comr Jeff T	hiel	
Aidan Foley							
to relocate their rant lateral at Sta pensate M	SUGGESTION:		Response per "CCSF SFWE coordinate wit	6/2013 Michael Smith O (Dan Helminia h contractor to	(SFDPW), k 420-4521) will provide funding /	rtion of	
he possibility of drant. ant to replace the			the hydrant la	teral."		MOIT OI	
t rFI	Jackson Tukuafu	pint Clearances at Sta 6+30: SFWD Decision to Replace Full Latera Jackson Tukuafu Aidan Foley SUGGESTION: Its to discuss To relocate their rant lateral at Sta pensate M next most e, as the response the possibility of drant. ant to replace the	eover, there is a urred over the next bint Clearances at Sta 6+30: SFWD Decision to Replace Full Lateral Closed Jackson Tukuafu Aidan Foley SUGGESTION: Is to discuss to relocate their rant lateral at Sta pensate M next most e, as the response he possibility of drant. ant to replace the	reover, there is a their duct ban clearance bet AWSS pipe. Should the duract that there pipe remainin contractor she remainder of the replacing with Pydrant will be facilities." Signed and D Sint Clearances at Sta 6+30: SFWD Decision to Replace Full Lateral Closed Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Answered By Aidan Foley SUGGESTION: ANSWER: As to discuss to relocate their rant lateral at Sta pensate M next most e, as the response he possibility of drant. e, as the response he possibility of drant. and the response he possibility of drant. Signed and D reover, there is a ured over the next their duct bank in order that it clearance between the duct bank not be received over the next that there will be a minim pipe remaining in the hydrant contractor shall provide a cose remainder of the cast iron hydrant will be an improveme facilities." Signed and Dated (See Attaction Properties) Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Aidan Foley SUGGESTION: ANSWER: Accept Sug 15 to discuss to relocate their rant lateral at Sta pensate M next most states at Sta States and Dated Signed Signed and Dated Signed Sign	eover, there is a ured over the next their duct bank in order that there is a minimum clearance between the duct bank and the exist AWSS pipe. Should the duct bank not be relocated, and dure fact that there will be a minimum amount of care pipe remaining in the hydrant lateral run, the contractor shall provide a cost for removing the remainder of the cast iron hydrant lateral and for replacing with ductile iron pipe and fittings. Replacing this remaining section of cast iron pin hydrant will be an improvement to the SFWD's facilities. Signed and Dated (See Attached) Interpretable of the cast of the contractor shall provide a cost for moving the remainder of the cast iron hydrant lateral and for replacing with ductile iron pipe and fittings. Replacing this remaining section of cast iron pin hydrant will be an improvement to the SFWD's facilities. Signed and Dated (See Attached) Interpretable of the cast iron points are also as a second of the contractor of the contractor of the hydrant lateral. Answered By: Turner Construction Comp. Jeff 1 Answered By: Tur	their duct bank in order that there is a minimum 12" clearance between the duct bank and the existing AWSS pipe. Should the duct bank not be relocated, and due to the fact that there will be a minimum amount of cast iron piperant lateral and for replacing with ductile iron pipe and fittings. Replacing this remaining section of cast iron pipe and flutings. Replacing this remaining section of cast iron pipe and flutings. Replacing this remaining section of cast iron pipe and flutings. Replacing this remaining section of cast iron pipe and flutings. Replacing this remaining section of cast iron pipe and flutings. Replacing this remaining section of cast iron pipe and hydrant will be an improvement to the SFWD's facilities.* Signed and Dated (See Attached) Interview of the cast ron pipe and flutings. Response to relocate their rare tareful at 15ta personse per Michael Smith (SFDPW), rareful tateral at 15ta pensate M next most Response per Michael Smith (SFDPW), materials to replace the remaining cast iron portion of the hydrant lateral. Signed and Dated 3/19/13. (See Attached)	

To: Turner Construction Compan Gary Krutsch

Closed

03/11/2013

03/21/2013

Answered By: Webcor/Obayashi Joint Ve Jackson Tukuafu

03/15/2013

Potentially



suggested 22deg bends as an offset from the 16" tee in

Please confirm additional restraints are not required at the

RFI U-0226.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

1046 of 1053 11/05/2013

Date: Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

ımber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	<u>Procee</u>	
REQUEST: Refer to drawin M Squared is u shown on the a SK-047.2 on Fi PG&E duct bar than the other a	ed Construction, Inc. ng U-1002, U-2003, MA-1 mable to trench to the contrached M Squared sketo mist Street due to the presides in the trench. One due and is sitting directly on to	nnection point as ch SK-047.1 and sence of two (2) ct bank is deeper	SUGGESTION: Suggestion #1 - Remove exiconnect to the existing pipe Install an IBeam behind the as an alternative restraint sy order to perform Suggestion will need to be moved west a for the I-Beam.	ANSWER: Accept Suggestion: Jeff Thiel 3/12/2013 Response per Michael Smith (SFDPW) " 1.) Proceed with suggestion No. 1. 2.) Should AT&T not be able to relocate their duct bank, proceed with suggestion No. 2. Replace 22.5 degree elbows with 11.25 degree elbows if fittings are						
Please provide direction to how M Squared will proceed.		Suggestion #2 - If the AT&T moved install an offset from bends to get back to original sketch SK-047.2)	available." Signed and Dated 3/12/13. (See attached) After further investigation while this RFI was being reviewed, it was found that the duct bank previously thought to be AT&T is owned by TCG. Do not proceed with either option until TCG has been notified of potential costs and has reviewed the proposed solutions.							
0226.1	AWSS - TCG Du	ct Bank at 1st Street Inter	section	Closed	06/25/2013	07/05/2013	07/08/2013	Potential	Ily 🔲	
From: Webcor (Construction LP	Jackson Tukuafu	To: Turner Construction Co	mpan Gary Krutsch	Answered By	:Turner Constru	uction Comr Jeff T	hiel		
o-Author: M Square	ed Construction, Inc.	Aidan Foley								
REQUEST: Please refer to response for RFI U-0226.		SUGGESTION:		ANSWER: Response per	Accept Sug r Michael Smith					
"Remove the existing pipe. I alternative resting duct banks in content being institute that the second second being institute that the second being institute that the second being institute that the second second being institute that the second se	se to RFI U-0226, M Squaxisting gate valve and constall an I-beam behind the raint system in order to a conflict with the AWSS. A stalled at this location, a be moved 2-feet west.	nnect to the the 16" Teeas an avoid two PG&E As a result of the I-			elbows shall of as shown on the "crossed" reb	conform to the the the AWSS standar with J-hook e	(2) 10" 22.5 degreen and the contract blocks for 16 dard drawings. Included the contract of th	" pipe lude ws.		
TCG has determined that the duct bank would take several months to re-locate their duct bank. Therefore, TCG has opted to avoid the conflict by pursuing the				Signed and D	ated, see attach	ned.				



AWSS Line on this block will be pretty close to being

maintenance of the AWSS line in the future very difficult.

There would also be an impact to the gate valve location

on the east side of the 1st and Mission intersection and

under the new curb line, therefore making any

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1047 of 1053 11/05/2013

Time: Job:

coordination meeting after completing the paving in

jump to the intersection at Main and Mission and

proceed westward towards Beale Street.

the intersection at First and Mission, M2 is directed to

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
	s or provide all necessary r I line at this location.	estraints required							
-0227	AWSS - 2nd Str	reet AWSS Gate Valve Vault		Closed	04/16/2013	04/26/2013	04/22/2013	Potentiall	у 🗌
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Turner Constru	ction Comr Jeff 7	Thiel	
Co-Author: M Squ	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
	wing MA-13, MA-3, MA-10				Jeff Thiel 4/2 (SFDPW),	2/2013 Respons	se per Michael S	mith	
steam line th will be signifi to fit into the	resence of several PGE du nat runs along 2nd Street N icantly difficult to modify a area designated for the va poses to construct a cast in	I Squared feels it precast valve vault ault. As a result, M			the proximity of	of the AWSS val	g/surrounding uti ult location, a cas uld be acceptable	st-in-	
as has previo	ously installed and approve	ed on Market Street.			the structural	engineer. Please	to be stamped a	alve	
vault at this I	onfirm it is acceptable to in: location. dvise if rebar detail attache	·			vault is for a 1 actuators)."	6" gate valve wi	th bypass valve (Two	
-0228	AWSS - Sidewa	ılk Expansion Evaluation bet	ween First Street and Beale St	reet Closed	05/31/2013	06/10/2013	10/18/2013	Potentiall	у 🦳
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Com	pan Gary Krutsch	Answered By	:Turner Constru	ction Comr Gary	Krutsch	
Co-Author: M Squ	ared Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sugg	gestion:		
to move the	ched email it appears that t curb lines south between F 3' and also between Fremo	First St &					mation from the		
First to Frem	nont St - In moving out the	curb line by 3' the					n be installed pe ed in our weekly	er trie	



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page:

1048 of 1053 11/05/2013

Date: Time: Job:

Cost

10:53 AM 30100

30100 - Transbay Transit Center Project

Date

			Dute	Dute	Duic	OUSL	
Number	Subject	Status	Created	Required	Answered	Impact	Proceed
<u> </u>	·						

the west side of Fremont & Mission due to the new curb coming south. It is possible a modified roof to the vault would be required as half of the vault would be in the street and another half would be in the sidewalk (judging from rough field measurements). The AWSS Fire hydrant would also need to be relocated as it would now be in the middle of a widened sidewalk, whereas the distance acceptable is 24" to 26" from FOC.

Fremont to Beale Street - The current alignment for the AWSS along Mission between Fremont & Beale is close to the curb on the north side (in order to avoid 3 PG&E utility vaults). By moving the curb 4' south the AWSS line will now be underneath the sidewalk on this block. Similar to above the gate valve vaults would be partially under the sidewalk here and modifications/relocations may be required.

Please advise if M Squared is to continue with the AWSS install per plan. Alternatively please provide direction on the conflicts that moving the sidewalk creates for the main.

- Submit RFI#U-0228.1 once work is complete in the Main Street intersection and request SFPUC's approval to proceed with the original AWSS alignment per contract drawings between Beale and First streets.

Date

Date

U-0229 AWSS Main @ PGE Vault #1329

From: Webcor Construction LP

Jackson Tukuafu

Co-Author: M Squared Construction, Inc.

Aidan Foley

REQUEST:

Reference: Attached Photo

Please confrim that the new 16" AWSS is acceptable to be in the position shown as there is not the required clearance with the PGE vault #1329 Closed

To: Turner Construction Compan Gary Krutsch

SUGGESTION:

06/12/2013

06/22/2013

06/17/2013

Potentially

Answered By: Turner Construction Comp Jeff Thiel

ANSWER:

Accept Suggestion:

Response per Michael Smith, (SFDPW)

"Per a site visit on 6/11/13 with M Squared, the current alignment of the AWSS pipe against the PG&E electrical vault is unacceptable. The AWSS contract documents require a minimum clearance of 12" between AWSS facilities and adjacent utilities. Exceptions shall be made by the engineer on a case-by-case basis per field conditions to decrease the clearance to 6" where required."

Signed and dated 6/17/13. (See Attached)



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1049 of 1053 11/05/2013 10:53 AM

30100

Time:
Job:

30100 - Transbay Transit Center Project

lumber	Subject			Status	Created	Required	Answered	Impact	Procee
J-0230	AWSS - AWSS V	ault at 2nd Street		Closed	07/18/2013	07/28/2013	07/19/2013	Potential	ly 🗌
From: Webco	or Construction LP	Jackson Tukuafu	To: Turner Construction Compar	Gary Krutsch	Answered By	Turner Constru	uction Comr Jeff	Thiel	
Co-Author: M Squ	uared Construction, Inc.	Aidan Foley							
Due to the grade of the 16" AWSS gate valve, combined with the valve actuators the roof of the AWSS valve vault at 2nd Street will not be under the surface of the street. Previous AWSS valve vaults have 2" AC/8" concrete street base on top of the roof of the vault. If M Squared installs the vault roof and then covers it with 2" AC then there is a danger that future contractors will saw cut through the roof of the vault while cutting out their trenches. Our suggestion is to pour the vault roof to the same grade as the current street surface on 2nd Street. There does not appear to be any room for adjustment here and we are unaware of any other options in this case. Please confirm it is acceptable to construct the vault roof in this manner, with a concrete broom finish.			SUGGESTION:	ANSWER: Accept Suggestion: Response per Michael Smith (SFDPW), "M Squared shall proceed with constructing the valve box cover in a manner such that the portion to be located in the parking strip shall be flush with the surrounding concrete. For the portion of the cover to be located in the paved traffic lane, reduce top surface by 2". Place a sheet of 10 gauge galvanized sheet steel on recessed area of concrete cover. When repaving street, extend A/C paving over vault to provide paving flush with concrete portion of cover/manhole lid. Signed and dated. (see attached)					
J-0231 From: Webco	AWSS - Concret	e Sampling for Kickers Jackson Tukuafu	To: Turner Construction Compar	Closed Gary Krutsch	07/25/2013 Answered By	08/04/2013 :Turner Constru	08/02/2013 uction Comr Jeff	Potential Thiel	ly
REQUEST: The contract all cast in plain the pre-country the SFWD It inspect all country. Due to the sfor concrete agency. Please confican inspect	t specifications require concace concrete on the AWSS onstruction QC meeting the nspector - Dan Helminiak is oncrete thrust blocks. Small size of the thrust block samples to be provided to a limit that per the agreement all concrete used in the AW concrete sampling is require	project. However City confirmed that permitted to s it is not practical an inspection SFWD inspector SS thrust blocks	SUGGESTION:		"It is acceptably visually inspect compliance with sampling is resulted by Signed and data (Jack Adams) Although the compling and the AWSS pro-	cted by the SFW ith the contract quired." ated. (See attac contract specific testing of all ca	(SFDPW), r thrust blocks to /D inspector for documents. No of hed) attions require cost in place concri SF Engineer of	oncrete oncrete ete on record	



From: Webcor Construction LP

Co-Author: M Squared Construction, Inc.

Jackson Tukuafu

Aidan Foley

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1050 of 1053 11/05/2013

Date: Time: Job:

Answered By: Turner Construction Comr Jeff Thiel

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	Subject			Status	Date Created	Date Required	Date Answered	Cost Impact	Procee
-0232	AWSS - Schedu	ule Change of AWSS Insta	I	Closed	07/30/2013	08/09/2013	08/14/2013	Potentially	 y
From: Webcor	Construction LP	Jackson Tukuafu	To: Turner Construction Compa	an Gary Krutsch	Answered By	:Turner Constru	ction Comp Jeff	Thiel	
Co-Author: M Squa	red Construction, Inc.	Aidan Foley							
REQUEST:			SUGGESTION:		ANSWER:	Accept Sug	gestion:		
directed by the AWSS install mobilize to Mathere. IF M Squared no connection The new 16" I and the 10" co. We can see 3 Main Street. 1. Cap the new ould allow the Street all the street heat the street he	at AWSS meetings M Sque owners' representative at 1st & Mission intersection to large at 1st & Mission will be installed up to connection will be done here are a will be installed up to connection will be done here as options that would allow with 1st and 1	to complete the tion and then begin work down St then there will be if 1st and Mission. the 16"X10" tee ading North on 1st. us to proceed to le of the tee. This service from 2nd to Street, including 16" Tee to the lest of 1st Street. be fully operational to be temporary as a complete the 16" is. The AWSS main all the way to the let. The main would intersection, and to as the new 16" oot 2" would not be			"Please proce East end of the Mission and Fibe installed be the concrete a fitting. Pour the 16"x16"x1" Startings for 4-6 alignments be Bill Gunn of Startings for shows the the above iss	ne (N) 16"x16"x1 First Streets. The ehind the 16" ca as a typical thrust trust blocks agai eel plate. is not approved is months and the etween (N) and (No. 1 - Capping of 2" tee installed as concrete thrust p shall be poure at block for a 16" nst 12" CI pipe a due to unavailable vertical/horizon E) pipes. Option No. 1 bas nting option No.	at block to d with 3x AWSS and lility of tal	
-0233	AWSS - 16" GV	@ sta 9+00		Closed	08/14/2013	08/24/2013	08/14/2013	Potentiall	v 🗀

To: Turner Construction Compan Gary Krutsch



are 12ft lengths we will have to remove 24ft (2 lengths) of

pipe to expose the closest possible bell.

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1051 of 1053 11/05/2013

Time:
Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

umber	ber <u>Subject</u>			Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed	
REQUES	т:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Referenc	e: Attached Photos		Install an 8" pipe into the roof of the	•	Response per	Michael Smith	(SFDPW),			
side. Tha and the b Now that	lly the 2 operating nuts should t way you can operate the nut y pass from the 24"x24" valve the nut on the valve is facing o possibility that you can acce	on both the valve cover in the street. a different way	8" valve cover in the street as an access point to the by pass. The main operating nut on the gate calve would accessible from the 24" cover in the street per plan.		"Our understanding is that the concrete valve vault lid has been fabricated and installed. Please provide an as-built drawing of the placement of the covers and rebar layout."					
the valve		Jos Both Hato Hom			Signed and Da	ated. (See Attac	ched)			
-0234	AWSS - Valve V	ault Wiring Clarification		Open	10/17/2013	10/27/2013		Potentiall	v 🗆	
	bcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	•	Answered By			. Otomian	,	
Co-Author: M S	Squared Construction, Inc.	Aidan Foley	ramer conduction compan	cary ratioon	,					
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
Please re	efer to drawing sheets MA-29,	MA-30 and MA-31.				. •				
conducto number 1 These Lir	e referenced drawings show or rs required for vault wiring. Th on these drawings refer to Lin mitorque drawings show addition onductors in each of the three	ne sheet note nitorque drawings. onal (54 #14								
	arify the total number of condunding conduits	uctors and								
-182.5	Tie Back Requii	rements on 2nd Street		Closed	06/21/2013	07/01/2013	06/27/2013	Potentiall	у 🗌	
From: We	bcor Construction LP	Jackson Tukuafu	To: Turner Construction Compan	Gary Krutsch	Answered By	Turner Constru	uction Comr Jeff -	Γhiel		
Co-Author: M S	Squared Construction, Inc.	Aidan Foley								
REQUES	T:		SUGGESTION:		ANSWER:	Accept Sug	gestion:			
See attac	thed email from EOR.				Response per	Michael Smith	(SFDPW)			
M Squared has returned the 45deg bends to SFWD, and in turn we have procured 22deg bends for this location. As a result we must now replace and tie back a minimum of					e followed stand VSS pipe at elb	lard design practi ows."	ces for			
	w 10" Ductile Iron Pipe. As the				Signed and Da	ated (see attach	ned)			



From: Webcor Construction LP

Co-Author:

Robert Kjome

Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date:

Job:

Answered By: Webcor Construction LP Jackson Tukuafu

1052 of 1053 11/05/2013

Time:

10:53 AM 30100

30100 - Transbay Transit Center Project

Date Date Date Cost Created Required Answered Number Subject Status Impact Proceed Please confirm this is the intention. U-204 **AWSS - Compromised Lead Joint on Howard Street** Closed 06/15/2012 06/18/2012 06/25/2012 Potentially From: Webcor Construction LP Jackson Tukuafu To: Turner Construction Compan Gary Krutsch Answered By: Turner Construction Comr Jeff Thiel Co-Author: REQUEST: SUGGESTION: ANSWER: **Accept Suggestion:** Jeff Thiel 6/18/2012 Michael Smith's (SFDPW) Please reference the attached COMM0999 provided to TCCO on Friday, June 6, 2012. response, As outlined in M Squared's letter dated 6/8/12, M Squared "The Contractor shall remove two (2) additional 12' realigned the AWSS main on Howard Street and repacked sections of (E) cast iron pipe on the East end of the the lead joints (time card attached for reference). During horizontal offset. F/I ductile iron pipe with restraints at the Hydrostatic Test by SFWD, the lead joint leaked and all joints except for the MJxGH adaptor fitting. Pour failed to hold the test eventhough it was repacked. new lead joint at Ctel." As a result, it has become apparent that the AWSS joints Signed and Dated 6/18/12. have been compromised. Please provide direction on how M Squared is to proceed the with next course of action. U-221 Void 01/31/2013 **AWSS - Pipe Joints in Utility Vaults** 02/10/2013 02/06/2013 Potentially From: Webcor Construction LP Robert Kjome To: Turner Construction Compan Gary Krutsch Answered By: Webcor Construction LP Jackson Tukuafu Co-Author: M Squared Construction, Inc. Aidan Foley **REQUEST:** SUGGESTION: ANSWER: **Accept Suggestion:** See U-0221 Per recent field direction provided by the City inspector to M Squared Construction, where possible no joints are permitted inside utility vaults (i.e PGE, ATT) This will require an additional restraint joint at each vault location. Please confirm this is the intent. U-222 **AWSS - Flanged Spools for Hydrants** Void 01/31/2013 02/10/2013 02/06/2013 Potentially

To: Turner Construction Compan Gary Krutsch



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

Page: Date: 1053 of 1053 11/05/2013

Time: Job:

10:53 AM 30100

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed

M Squared Construction, Inc.

Aidan Foley

REQUEST:

Reference Drawings: MA-14 & MA-15

Hydrant at Sta 6+30

Contract drawings show the 45deg bend being connected directly to the rolled down tee. However the hydrant lateral is much lower than the main and it will not be possible to connect them directly together.

Hydrant at Sta 9+00

Due to the changes per RFI U-190 M Squared are to install the new fire hydrant in the same location as the existing, in the breezeway. As a result the new hydrant lateral will be higher than the newly installed main (the grade of the main being dictated by various utility conflicts).

Please confirm M squared's suggested mediation is how M squared is to proceed.

SUGGESTION:

Hydrant at Sta 6+30 Suggestion - custom fabricate a HPW flanged x flanged spool for to connect to the tee and the 45deg bend.

Hydrant at Sta 9+00 Suggestion - In order to connect the tee to the 90deg bend a HPW flanged x flanged spool, custom fabricated will be necessary. ANSWER: see U-0222

Accept Suggestion:

END OF REPORT

Report Parameters

Project: 30100 Status Class:

 Sent To:
 Run Date:
 11/05/2013

 Restrict Value of:
 C
 Run Time:
 10:53 AM

 From Date:
 Operator:
 MKOJIMA

 To Date:
 Report Code:
 PM3012

Status:





Transbay Transit Center – San Francisco, CA

Noise and Vibration Mitigation Management Plan
Webcor/Obayashi
September 07, 2012

GENERAL:

The Webcor/Obayashi (W/O or CM/GC) Noise and Vibration Mitigation Management policy that will be implemented on the Transbay Transportation Center Project will be an overall project policy, with each Trade Subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to comply with Specification Section 00 08 13, 00 08 13/APB, the San Francisco Noise Control Ordinance, regulations and requirements and section 01 35 65, Specific Project mitigation measures and monitoring requirements as applicable to the various phases of work.

When required by the specifications, W/O will ensure its Trade Subcontractors comply with this plan as well as the San Francisco Noise Control Ordinance.

To expedite the project or minimize impacts, W/O will ensure that its Trade Subcontractors apply for written waivers of some of the noise requirements by application to the TJPA in accordance with Section 00 08 13 Specific Project Requirements when required by the specifications or contract. Written waivers shall be uploaded to Constructware by CM/GC. It is anticipated that some Work may require multiple shifts or for other reasons need to be performed outside of typical weekday daytime construction hours. Trade Subcontractors shall minimize construction activities during evening, nighttime, weekend, and holiday periods and shall obtain specific permits before performing construction in noise sensitive areas during these periods.

Night noise permits requests shall be submitted to the TJPA at least 7 days in advance of work. Noise permit request shall include:

- 1. Name of person in charge of work and phone number
- 2. Hours to be worked
- 3. Narrative of scope of work including necessity of doing work at night, maps, and truck routes
- 4. List of noise/vibration/light making equipment including make and model
- 5. Mitigation and monitoring methods being used

W/O will ensure that its Trade Subcontractors provide noise inspections and testing of equipment to ensure that all equipment onsite is in good condition and effectively muffled per manufacturer's recommendation. If inspection or testing documents are requested by the TJPA, or any of its representatives, W/O will require its Trade Subcontractors to provide requested documentation in a timely manner. Trade Subcontractors shall provide inspection and testing documents to CM/GC prior to start of work and as the equipment is replaced. CM/GC shall upload documents to a file location within Constructware.

W/O will ensure that its Trade Subcontractors minimize use of vehicle backup alarms and demonstrate how backup alarms will be minimized by using mitigation measures such as designing the construction site with a circular flow pattern that minimizes backing up of trucks and other heavy equipment. Trade Subcontractors shall submit quarterly reports of measures to reduce back up alarms. W/O shall upload these reports to a specific location within Constructware.

W/O will ensure that all its Trade Subcontractors' equipment onsite is equipped with broadband back-up alarms that will automatically adjust based on the ambient noise during nighttime hours (between 8 p.m. and 7 a.m.) when ambient noise is low. If safety considerations and applicable regulations will not allow use of broadband back-up alarms, Contractor shall request an exemption in writing to the TJPA

Representive including the applicable safety regulations (Cal/OSHA, OSHA). Trade Subcontractors shall comply with the TJPA's request for broadband back-up alarms for all work between 8 p.m. and 7 a.m. If requested by the TJPA or its representative, Trade Subcontractors shall provide W/O with equipment specifications showing broadband back-up alarms for submission via Constructware.

Through W/O's requirement of the submittals outlined in this noise and vibration plan, W/O will verify Trade Subcontractors' construction operations are performed in such a manner to minimize noise.

W/O will verify that its Trade Subcontractors perform noise monitoring to demonstrate compliance with noise limits and endeavor to minimize construction activities during off hours except for those required and deemed acceptable per the Contract Documents. Trade Subcontractors shall submit monthly monitoring reports to W/O for submission via Constructware.

W/O will verify Trade Subcontractors haul routes to ensure that they minimize noise intrusion into residential areas, and control noise during nighttime hours.

W/O will require all Trade Subcontractors to use procedures and equipment, when it would be effective, that produce lower noise levels than normal when required by the specifications or contract. W/O will require the Trade Subcontractor to submit manufacturer special noise control kit information. If none is available, then the Trade Subcontractor needs to submit a statement of this. Upon receipt and review of the information, W/O and the Trade Subcontractor will identify the events when the noise control measures should be used based on the specifications.

W/O will require all Trade Subcontractors plans to include use of temporary barriers near noisy activities as required by the specifications or contract. Such barriers shall be located close enough to the noise source to achieve noise attenuation. As necessary and when it is shown it would be effective, Trade Subcontractors shall construct shed-like structures or complete buildings to contain the noise from nighttime activities.

W/O shall require haul route map, plan and storage location to be part of Trade Subcontractor's plan and included within its submittal.

VIBRATION CONTROL

Vibration limits are based upon the Federal Transit Administration's Planning and Environment Transit Noise and Vibration Impact Assessment guidelines. W/O will require all Trade Subcontractors' to limit or prohibit use of construction techniques that create high vibration levels when it affects adjacent properties.

If construction techniques that create high vibration levels are used, W/O will require all Trade Subcontractors' to comply with the following additional restrictions:

1. Provide advance notice to TJPA of any vibration intensive activities. Perform vibration intensive activities only during daytime hours between 7 a.m. and 8 p.m. unless otherwise allowed by special permit or variance, as required by the specifications or contract. Perform vibration monitoring during vibration intensive activities during daytime hours between 7 a.m. and 8 p.m. unless otherwise allowed by special permit or variance, as required by the specifications or contract. Recorded data should be part of the Trade Subcontractor Daily report. A summary shall be submitted monthly and uploaded to Constructware.

- 2. Investigate alternative construction methods and practices to reduce the impacts if present and implement alternative methods and practices as reasonable.
- 3. Provide a plan to measure vibration levels including but not limited to measurement locations, times and metrics. Plan shall also include contingency plan if operations exceed the limits. This plan shall be uploaded into Constructware by W/O.
- 4. Limit or prohibit use of construction techniques that create high vibration levels.

Trade Subcontractors shall be responsible for providing technical information, as required by the specifications, in their plan. Trade Subcontractor's plan shall be submitted via Constructware for Record Only.





Transbay Transit Center – San Francisco, CA

<u>Air Quality Plan</u> Webcor/Obayashi January 16, 2012

GENERAL PLAN:

The Webcor/Obayashi (W/O) Air Quality Plan that will be implemented on the Transbay Transit Center Project will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to comply with the Bay Area Air Quality Management District regulations and requirements.

W/O will require its Trade Subcontractors to establish a plan that complies with all requirements set for in specification sections 00 08 13, and 01 35 65 prior to starting Work onsite. W/O shall check and verify trade subcontractor's compliance with air quality requirements on a daily basis. Any non-compliant trade subcontractors will receive both verbal and written notice through Safe Site One (W/O internal program). Additional, W/O will require trade subcontractors to demonstrate they are actively monitoring air quality by providing checklists or documentation on each Trade Subcontractors daily report. W/O shall verify its Trade Subcontractors Air Quality plan includes the following but not necessary limited to:

- 1. Specific measures to minimize impacts to sensitive receptors associated with exposure to respirable nuisance dust (PM10) and achieve a goal of No Visible Emissions.
- 2. W/O shall verify Trade Subcontractors comply with City Dust Control Order (DPW Order No. 171,378. Water active construction areas at least twice daily to control dust using non-potable water in accordance with San Francisco Ordinance 175-91
- 3. Identify specific measures to minimize dust generation; to reduce health risks to workers and the public.
- 4. Mist the immediate excavation area with a water spray to prevent airborne dust particles. Perform continuous water spraying during dust-generating activities. Mist or spray in such a way as to prevent puddling or generation of runoff, which could potentially reach storm drains or catch basins.
- 5. Minimize the amount of excavated material or demolished debris stored at the Site. Remove excavated material and demolished debris, with the exception of hazardous materials or suspected hazardous materials, from the Site no later than the end of each workday. If hazardous materials or suspected hazardous materials are stored on site, store such materials in accordance with all applicable California Environmental Protection Agency regulations, including providing storage in proper containers and protection from exposure to the elements. Remove such materials from the Site as soon as possible for disposal or recycling in accordance with applicable laws and regulations.
- 6. Wet all exposed soil surfaces at least 3 times daily during dry weather or more frequently if dust is blowing or if required by the TJPA. Immediately wet sweep serpentine residuals from the street.
- 7. Keep the Site and adjacent areas clean and perform wet sweeping at the end of each shift. Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites. Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.
- 8. Load haul trucks carrying excavated material so that the material does not extend above the walls or back of the truck bed. Wet before covering and tightly cover the surface of each load before the haul truck leaves the loading area. Cover trucks hauling soil, sand, and other loose materials or require trucks to maintain at least 2 feet of freeboard
- Clean up spillage on City streets, whether directly or indirectly caused by Contractor's operations.

Air Quality Plan REV5 Page 2 of 3

- 10. Minimize use of on-site diesel construction equipment, particularly unnecessary idling. Shut off construction equipment to reduce idling when not in direct use. Where feasible, replace diesel equipment with electrically powered machinery.
- 11. Retain receipts of ultra-low sulphur fuel (ULSF) purchase and equipment tuning and repair and make these available to the TJPA Representative or to the Federal Transit Administration (FTA) designee upon request.
- 12. Locate diesel engines, motors, or equipment as far away as possible from existing residential areas.
- 13. Properly tune and maintain diesel power equipment. To manufacturer's specification and frequency.
- 14. Suspend grading operations during first and second stage smog alerts, and during high winds (i.e., winds greater than 25 miles per hour).
- 15. Upon completion of the construction phase, buildings with visible signs of dirt and debris from the construction site shall be power-washed and/or painted (provided that permission is obtained from the property owner to access and wash the property with no fee charged by the (owner). Trade Contractor shall request CMGC to contact Singer and Associates to notify property owners for access. If permission from property owners for access is not granted, Trade Contractor is not responsible for power-washing or painting.
- 16. Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites.
- 17. If applicable, replant vegetation in disturbed areas as quickly as possible.

W/O will verify Trade Subcontractors comply with the requirements of the Bay Area Air Quality Management District (BAAQMD) Regulation 6 (for particulate matter and visible emissions), Regulation 7 "Odorous Substances," Regulation 11 "Hazardous Pollutants," and the California Health and Safety Code Division 26 "Air Resource", Chapter 3 "Emission Limitations," Section 41700 "Prohibited Conduct," and related regulations. Trade Subcontractors shall notify the BAAQMD 10 working days prior to commencing demolition or hazardous materials abatement work.

- Such notification shall include the names and addresses of operations and persons responsible; description and location of the structure to be demolished or altered including size, age and prior use, and the approximate amount of friable asbestos; scheduled starting and completion dates of demolition or abatement; nature of planned work and methods to be employed; procedures to be employed to meet BAAQMD requirements; and the name and location of the disposal site.
- 2. The BAAQMD randomly inspects removal operations and will respond to any complaints received. Contractor shall cooperate with and facilitate all BAAQMD authorized inspections.\
- 3. Notifications shall be documented and provided to CM/GC for submission to the TJPA via ConstructWare.

Trade Subcontractors shall be responsible for providing technical information, as required by the specifications, in their plan. All trade subcontractors plans shall be submitted for Record Only via ConstructWare.

Air Quality Plan REV5 Page 3 of 3





Transbay Transit Center – San Francisco, CA

Waste Management and Construction Debris Plan Revision 6

Webcor/Obayashi November 7, 2013

GENERAL PLAN:

Webcor/Obayashi Joint Venture (Webcor/Obayashi) understands that the building contractor plays a critical role in the management of jobsite produced construction waste. Webcor /Obayashi has adopted a waste reduction and recycling policy that will be implemented on the Transbay Transportation Center Project. This policy will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project.

The primary goal of the plan is to divert as much construction generated debris & unused material from landfills as possible. At a minimum, Webcor/Obayashi and its trade subcontractors will divert 75% of the waste generated on the construction project from landfills. Trade subcontractors Construction Waste Management Plan shall be prepared and submitted in compliance with the Owner's LEED project requirements and the requirements of the City and County of San Francisco.

The Trade Subcontractors are required to comply with Specification Sections 00 08 15, 01 74

00, and 01 81 13 as well as any or all of the procedures listed below. If a conflict in percentages exists between this section and Section 01 81 13, General LEED Building Design and Construction Requirements, the most stringent section shall govern.

- Use of approved debris haulers with documented recycling levels.
- Source separated debris boxes will be provided onsite for mixed debris and recyclable items such as lumber and wood related products, dirt, concrete and asphalt, cardboard & metals.
- Trade Subcontractors are required to handle and dispose of any generated hazardous waste.
- Requesting Trade Subcontractors and vendors to utilize reusable packaging when possible.
- Trade Subcontractor shall provide a Construction Waste Management Plan.

All Trade Subcontractors shall develop their own Waste Management and Construction Debris Plan that complies with the Contract Documents and this plan. Trade Subcontractors shall submit this plan in accordance with the specifications and it shall become part of Webcor/Obayashi's overall project plan. All technical requirements defined in the contract documents shall be fulfilled by Trade Subcontractors and submitted to the Construction Management Oversight (CMO) For Record Only through ConstructWare

Webcor/Obayashi will ensure the Trade Subcontractors are effectively implementing the procedures and are in compliance with Specifications.

Webcor/Obayashi will verify that after Award of Contract and before commencement of the Work at the site, the Trade Subcontractor conducts a Reuse/Recycle Assessment as part of their Solid Waste Management Plan (SWMP): Trade Subcontractor's assessment shall

estimate the types and quantities of materials for the Project that are anticipated to be feasible for source separation for recycling or reuse, either onsite or offsite, and note the procedures intended for a recycling, reuse, and salvage program. Documentation of the trade subcontractor's plan shall consist of the following:

- Trade subcontractor and vendor waste management strategies.
- Trade subcontractor required to provide a monthly summary of the total waste material with backup documentation (weight tickets) if processed offsite.
- The amount recycled (in tons), material types, recycling procedures, and processing facility locations to which materials were diverted if processed offsite.

Trade Subcontractor's Construction Waste Management Plan shall also include estimated wastes, disposal, and handling with the following:

A. List of materials that comprise source separated materials include, but are not limited to:

- Concrete, Wood, Mud, Mixed Aggregates, Yard waste, Metals, and Cardboard.
- Yard waste is not included in our overall diversion rate calculation on the template or corresponding spreadsheet per the requirements from the LEED BD&C v3.0 Reference Guide.

B. List of materials that comprise Miscellaneous Construction Debris include, but are not limited to:

- Wood, Scrap Metal, Drywall, Plastics, Film Plastics, Wire, Cable, Glass.
- The total quantity estimated, inception to completion Disposal.
- Total Project Generation, Diversion + Disposal.
- Project Diversion Rate.

Webcor/Obayashi will verify that Construction and Demolition Waste; Non- hazardous solid resources resulting from Trade Subcontractor's construction, remodeling, repair, and demolition operations for the Project are properly transferred to a C&D Recycling Facility. The C&D Recycling Facility shall be a facility that receives only C&D (construction and demolition) material. Trade Subcontractors shall provide Webcor/Obayashi a summary sheet, including all receipts for transport materials each month with the progress billing if any materials are processed offsite.

Webcor/Obayashi will verify that of the inevitable waste generated, Trade Subcontractor's reuse, salvage, or recycle as many of the waste materials as economically feasible.

Webcor/Obayashi will participate/attend a meeting with Trade Subcontractor, the TJPA Representative and representatives of the City's Solid Waste Management and recycling programs prior to commencement of work. Webcor/Obayashi will

ensure all Trade Subcontractors are made aware of the LEED requirements for C&D diversion before being allowed to work on the site.

Webcor/Obayashi will verify that Trade Subcontractors submit a Monthly Disposal and Recycling Summary Report; quantifying the construction and demolition waste generated and recycled, reused or disposed of at Class 3 Landfill. Contractor shall also send a copy of this report to the TJPA Representative and the SWMP to the City Government Recycling Coordinator. The Comprehensive Disposal and Recycling Summary Report shall be submitted quantifying the construction and demolition waste generated and recycled, reused or disposed of at Class 3 Landfill, on a monthly basis. This report is a condition of progress payment and failure to submit this information shall render the Applications for Payment incomplete. The Trade Subcontractors/trades are also responsible for contracting with a regional facility to haul any hazardous materials from the site. The Trade Subcontractor shall calculate the C&D diversion rate for both LEED requirements (excluding yard waste) and the requirements set by the City (including yard waste) for all materials processed offsite. The W/O LEED representative will screen every C&D Submittal and review Trade Subcontractor and lower-tier subcontractors C&D Plans for clarity, completeness, and compliance with City/LEED requirements.

Webcor/Obayashi will verify that Trade Subcontractors develop and implement procedures for source separation to the greatest extent feasible.

Webcor/Obayashi will verify the Trade Subcontractors plans develop and implement procedures for transporting commingled (mixed) construction and demolition waste that cannot be feasibly source-separated if the intent is to process it offsite instead of using debris boxes provided onsite.

Webcor/Obayashi will verify the Trade Subcontractors plans develop and implement procedures for Salvage and Reuse.

Webcor/Obayashi will verify the Trade Subcontractors plans develop and implement practices for this project that will reduce waste at the source.

Webcor/Obayashi will verify the Trade Subcontractors plans develop and implement procedures for materials that are recycled and/or reused onsite

Webcor/Obayashi will verify that Trade Subcontractors participate in reuse programs by reviewing each Trade Subcontractors Monthly Disposal report for any material processed offsite. For such reuse programs, Trade Subcontractor shall refer to the City's construction and demolition recycling program.

Webcor/Obayashi shall review the environmental goals of this Project with all Trade Subcontractors during the preconstruction meeting. Webcor/Obayashi shall make a proactive effort to increase awareness of these goals among the job site workers. Webcor/Obayashi will make a proactive effort to increase awareness of these goals among the site workers by requiring that each Subcontractor take Click Safety training prior to stepping on the jobsite. As part of this Click Safety training, there is a module dedicated to teaching and reviewing the Exhibit P

LEED requirements of the project during construction activity.

Webcor/Obayashi will verify that Trade Subcontractors are using registered transporters and registered facilities. Only registered transporters can remove mixed construction and demolition debris from the construction site, and they must take this material to a registered facility. NOTE: A Registered facility: is any facility that accepts mixed construction and demolition debris for processing and recycling must be registered with the City and County of San Francisco and must demonstrate an overall minimum recycling rate of 65% for mixed construction and demolition debris. A registered facility must have applied for and received a registration from the San Francisco Department of the Environment. Webcor/Obayashi will ensure that Waste Management Companies that service San Francisco and retained by the Trade Subcontractors are registered transporters and meet the City/LEED requirements. Trade Subcontractors shall refer to SFEnvironment.org for the City's most current list of registered transporters.

Webcor/Obayashi will verify that Trade Subcontractors are implementing the following:

- 1. Eliminate the procurement of unneeded supplies.
- 2. Reduce waste by printing and copying double-sided.
- 3. Submit all submittals, reports, and forms in electronic format (PDF) unless otherwise noted.
- 4. Fully participate in available and required recycling and composting programs.
- 5. Purchase products made with recycled content such as paper and recycled aggregate.

Webcor/Obayashi will verify that Trade Subcontractors shall submit:

- 1. Construction and Demolition Debris Management Plan.
- 2. Construction and Demolition Debris Recovery Monthly Summary Report and supporting documentation for any materials processed offsite.
- 3. Construction and Demolition Debris Recovery Final Report for all materials processed offsite.

Trade Subcontractor's plan shall comply with specification section 02 41 00. All Trade Subcontractors will remove and dispose of all waste materials from the site for off-site disposal in compliance with all applicable laws, ordinances, rules, and regulations. Webcor/Obayashi and all Trade Subcontractors will work with the TJPA representative so that the representative may characterize the waste materials as required by law to the extent required by Webcor/Obayashi's selected disposal facilities.

Trade Subcontractor's plan shall comply with specification section 01 15 00. Trade Subcontractor's shall perform work in a manner to minimize generation of dust, dirt, rubbish, and other debris, to prevent dust and debris from interfering with the progress of the work, and to keep dust and debris from accumulating at the work site or adjacent areas. Trade Subcontractor's shall remove debris and rubbish from the site on a daily basis.

Trade Subcontractor's plan shall comply with specification section 01 13 50, by preventing the mixing of hazardous and non-hazardous materials.

Trade Subcontractor's shall be required to provide technical information, as required by the specifications including compliance with the City and County of San Francisco Ordinance 27-Exhibit P

Construction Waste Management Plan



Exhibit Q APPRENTICESHIP PROGRAM



Trade Subcontractor Name

CRAFTS EXPECTED TO BE EMPLOYED BY TRADE SUBCONTRACTOR

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
	(As required by registered	(As required by registered
	Apprenticeship program for Craft)	Apprenticeship program for Craft
FTS EXPECTED TO EMPLOY CONTRACTOR #1	ED BY SUBCONTRACTORS OF THE TRA	ADE SUBCONTRACTOR
Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
	(As required by registered	(As required by registered
	Apprenticeship program for Craft)	Apprenticeship program for Craft
CONTRACTOR #2		
CONTRACTOR #2 Subcontractor Name		
	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
Subcontractor Name	List Minimum Apprentice Ratio (As required by registered	List Maximum Apprentice Ratio (As required by registered
Subcontractor Name		(As required by registered
Subcontractor Name	(As required by registered	(As required by registered
Subcontractor Name	(As required by registered	(As required by registered
Subcontractor Name	(As required by registered	(As required by registered
Subcontractor Name	(As required by registered	(As required by registered
Subcontractor Name	(As required by registered	(As required by registered
Subcontractor Name	(As required by registered	

SUE	CONTRACTOR #3		
	Subcontractor Name		
		•	
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
		Tippe control of the	The state of the s
CLIE	CONTRACTOR #4		
306	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
SLIF	SCONTRACTOR #5		
JUL	Subcontractor Name		
	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
	civil (iic. carpenters)	(As required by registered Apprenticeship program for Craft)	(As required by registered Apprenticeship program for Craft)
		Apprentices in program for crary	rapprentices in program for crary
SUE	BCONTRACTOR #6		
	Subcontractor Name		
		•	
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)

SUBCONTRACTOR #7		
Subcontractor Name		
•	•	
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
	Apprenticeship program for Craft)	Apprenticeship program for Craft)
SUBCONTRACTOR #8		
Subcontractor Name		
	•	
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
SUBCONTRACTOR #9		
Subcontractor Name		
		T
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
	(As required by registered Apprenticeship program for Craft)	(As required by registered Apprenticeship program for Craft)
	Apprenticeship program for crarty	Apprenticeship program for crarty
SUBCONTRACTOR #10		
Subcontractor Name		
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
	Apprenticeship program for chart)	Apprenticeship program for craft)
	<u> </u>	

SUB	CONTRACTOR #11		
	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
		Apprenticeship program for craft)	Apprenticeship program for craft)
SUB	CONTRACTOR #12		
	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
SUB	CONTRACTOR #13		
	Subcontractor Name		
	OD 4 FT /: 0		1
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
		Apprenticeship program for craft)	Apprenticeship program for craft)
SUB	CONTRACTOR #14		
-	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
			+

SUE	CONTRACTOR #15		
	Subcontractor Name		
		•	
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
		Apprentices in program for Granty	ripprentices in program for crary
SUE	CONTRACTOR #16	I	<u> </u>
	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
CITE	SCONTRACTOR #17		
301	Subcontractor Name		
	Subcontractor Name		
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
	, ,	(As required by registered Apprenticeship program for Craft)	(As required by registered Apprenticeship program for Craft)
SUE	SCONTRACTOR #18		
	Subcontractor Name		
			_
	CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)
		 	

Subcontractor Name		
	· ·	
CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio	List Maximum Apprentice Ratio
	(As required by registered	(As required by registered
	Apprenticeship program for Craft)	Apprenticeship program for Craft)

SUBCONTRACTOR #20

Subcontractor Name	

CRAFT (i.e. Carpenters)	List Minimum Apprentice Ratio (As required by registered Apprenticeship program for Craft)	List Maximum Apprentice Ratio (As required by registered Apprenticeship program for Craft)



MONTHLY

TRADE SUBCONTRACTOR AFFIDAVIT

TRADE PACKAGE NO.:_____

I am the	of		and I am responsibl
for the payment of p	persons employed by	(Company)	who performed work or
(Project)			ssification(s) of
The apprenti	ceship committee(s) eitl	her denied or failed	to respond to our request for tl
	_		ied as journeymen for the
ionowing craits:			
		Or	
During the previous	s monthly period		
During the previous	s monthly period	(month)	
		(111011111)	
The required numb	or of appropries by er		ad halow have been employed
_		aft listed and initial	ed below have been employed
according to the min	nimum and/or maximu	aft listed and initial m requirements as	required by the regulating
according to the mindocuments for the p	nimum and/or maximu	aft listed and initial m requirements as	
according to the min	nimum and/or maximu	aft listed and initial m requirements as	required by the regulating
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating ating compliance for period
according to the mindocuments for the p	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating ating compliance for period
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating ating compliance for period
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating ating compliance for period
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating ating compliance for period
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating ating compliance for period
according to the min documents for the p referenced above)	nimum and/or maximu	aft listed and initial m requirements as a backup demonstra	required by the regulating

Provide a plan to satisfy this requirement by the end of the project without exceeding the maximum number of apprentices on a daily basis.

This document must be submitted and approved, with backup if required, prior to submittal and subsequent approval of the next billing period's progress billing.

Executed this day of _	201, in	, CA
(Signature)		



FINAL

TRADE SUBCONTRACTOR AFFIDAVIT

TRADE PACKAGE NO.: _____

	VI			and I am resnonsibl
for the pa	(Owner, Officer, Partner)	(Compa	ny)	and I am responsibl
	yment of persons employed	by	wh	o performed work o
		=	-	
the	(Project)	, i	n the classification(s) of
During th	e payroll periods commenci	ng on		_ and ending
	, all pe	rsons employed	by my company on	this project have bee
paid the s	pecified general prevailing	rate of per diem	wages for the specif	ied craft or
classificat	ion pursuant to Labor Code	e §§ 1771 and 18	813. ¹	
The	e apprenticeship committee((s) aither denied	or failed to respond	to our request for t
			_	_
dispatch o	f apprentices, and therefore		re ciassified as jouri	ieymen.
		Or		
-	red number of apprentices			
	to the minimum and/or ma	ximum requirei	ments as required by	the regulating
document	S.			
	CRAFT	IN C	OMPLIANCE (Y/N)
	CRAFT	IN C	OMPLIANCE (Y/N))
	CRAFT	IN C	OMPLIANCE (Y/N)	
	CRAFT	IN C	OMPLIANCE (Y/N)	
	CRAFT	IN C	OMPLIANCE (Y/N	
	CRAFT	IN C	OMPLIANCE (Y/N)	
	CRAFT	IN C	OMPLIANCE (Y/N	
	CRAFT	IN C	OMPLIANCE (Y/N)	
	CRAFT	IN C	OMPLIANCE (Y/N)	

This document must be submitted and approved prior to final retention payment.

(Signature)		

¹ Except for public works projects of one thousand dollars (\$1,000) or less, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the public work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in this chapter, shall be paid to all workers employed on public works.

This section is applicable only to work performed under contract, and is not applicable to work carried out by a public agency with its own forces. This section is applicable to contracts let for maintenance work.



Exhibit R Survey Information





851 NAPA VALLEY CORPORATE WAY . SUITE G . NAPA, CALIFORNIA 94558-7551 PHONE: 707 255 2729 . FAX: 707.255.5021 . WWW. CHAUDHARY.COM

December 27, 2011 #11-03-014

Mr. Rick Buellesbach Senior Project Manager - Transbay Transit Center Webcor/Obayashi Joint Venture 175 Beale Street San Francisco, CA 94105

Re: Transbay Transit Center Quality Control Surveys
Subject: December 2011 Control Verification Survey Results

Dear Mr. Buellesbach:

The field work for subject surveys was conducted by Chaudhary & Associates December 5 - 8, 2011. The surveys included verification of Chaudhary & Associates control (as shown on the Survey Control Plan dated 11-10-2011), with the exception of control point 217 which was destroyed sometime between the November 2011 and December 2011 control verification surveys.

Horizontal control values for point numbers 54, 208, 209, 213, 101, 105, 215, and 227 were constrained in this control network horizontal adjustment. The elevation values remain unchanged from the November 2011 surveys. The table below shows both the 11-10-2011 and the 12-21-2011 values for the remaining control points. Because data values can be impacted by environmental factors (temperature and humidity), seismic activity, and the various combinations of back sight and foresight data available on any given day, only the values which differ by 0.01' or more are adjusted and shown on the following table (and updated on the 12/2011 control map to be sent to you tomorrow). Field note copies and Star Net Reports have been mailed to you.

Horizontal Values

Point	November 10, 2011		Decemb	per 2011	Description
#	Northing	Easting	Northing	Easting	***
79	2115835.42	6013588.51	2115835.43	6013588.49	Fnd Mag+Shnr on TC
205	2115091.66	6013145.43	2115091.66	6013145.42	Mag Nail
221	2115642.30	6013753.17	2115642.32	6013753.18	Fnd Scribed-X KCA #4
223	2115654.49	6014255.95	2115654.48	6014255.95	Fnd Scribed-x KCA 9605
224	2115924.30	6013990.82	2115924.30	6013990.81	Cut-X
225	2115838.99	6014083.47	2115838.98	6014083.47	Fnd Scribed-X KCA 9761
229	2115259.63	6013325.88	2115259.62	6013325.87	Mag+Wshr

Please feel free to call me at (707) 255-2729 any questions or comments.

Sincerely,

CHAUDHARY & ASSOCIATES, INC.

A California Corporation

Helmut R. Korstick, PLS 7739

Project Surveyor





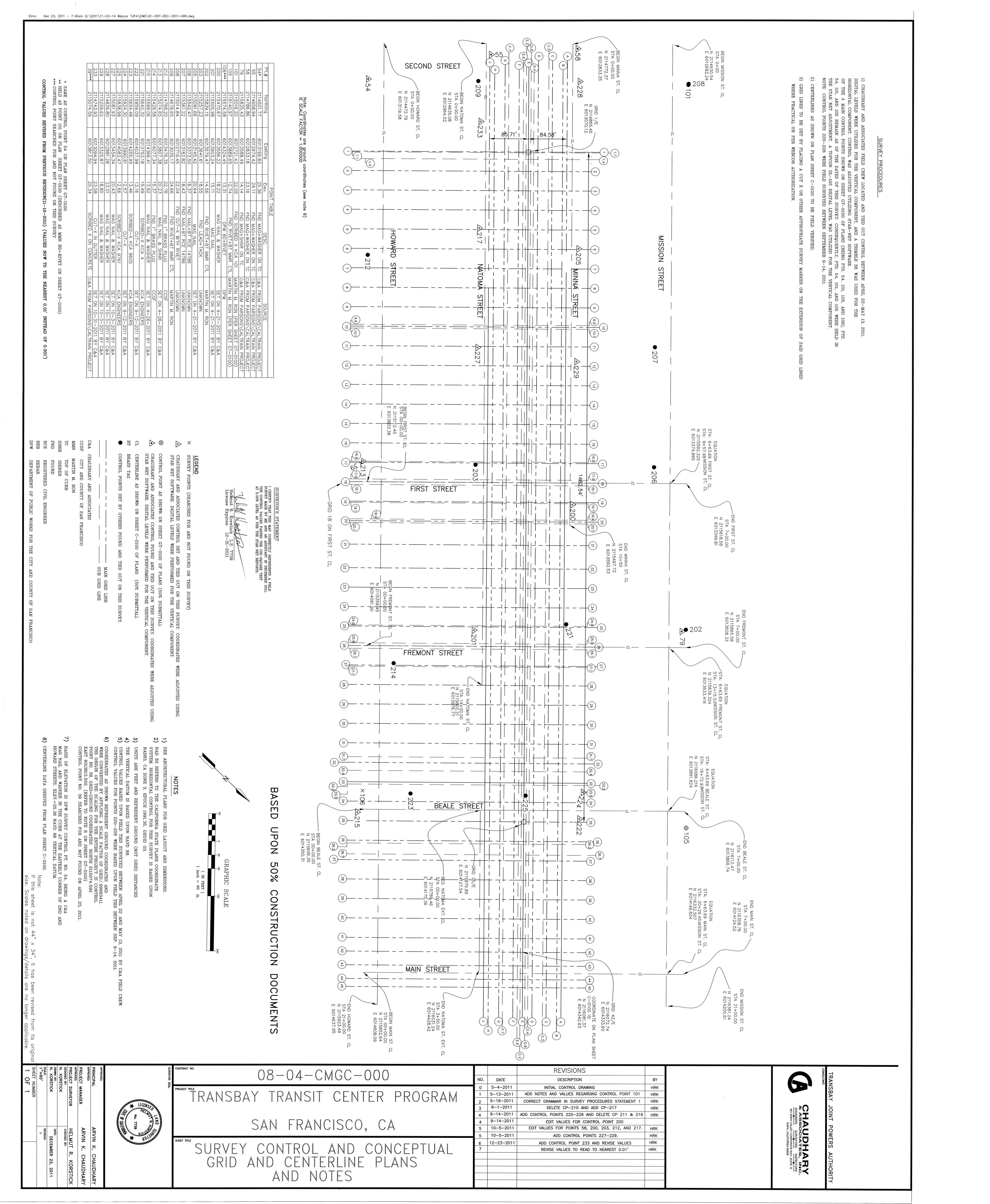


EXHIBIT "S"



Transbay Transit Center – San Francisco, CA

Traffic Control Plan

Webcor/Obayashi WO-TCP0001 REVISION 2

8/22/2012

GENERAL

The Webcor/Obayashi Joint Venture (W/O) Traffic Control Plan that will be implemented on the Transbay Transportation Center Project is an overall project policy, with each trade subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to provide a framework to insure compliance with Specification Section 01 15 70. To assist in this effort, W/O has enlisted the services of a traffic control consultant (TCC) — Sandis Engineering. Award of this contract between Sandis Engineering and W/O was based on a competitive request for proposal (RFP) process referred to as TG05.4.

TCC is responsible for participating in all aspects of traffic control planning and implementation including, but not limited to:

- Traffic control design oversight;
- Coordination between trade subcontractor traffic control designs;
- Interface with City of San Francisco and other agencies as necessary;
- Participate in coordination efforts of the TJPA Representative;
- Oversight of implementation of approved traffic plans;
- Provide daily reports regarding status of traffic control measures;
- On call traffic control services as requested.

TRAFFIC PLAN REVIEW AND COORDINATION

TCC shall prepare a detailed "as built" traffic plan for approximately four blocks in all directions from the jobsite. This map will be based on SFMTA maps and will be augmented as appropriate per field review of existing conditions. This map will include all striping, signage, curb lines, curb cuts, curb painting, buildings and any other feature of the street layout and traffic control. Beyond the four block distance, the map will include street layout and striping configuration.

Once a trade subcontractor is under contract, W/O shall provide the trade subcontractor with the as-built plan in CADD format. The trade subcontractor will then be required to use this base map for preparation of all their traffic control plans. A summary of the below criteria can be found in the attached Traffic Control Plan Preparation Packet.

The trade subcontractor is required to prepare and submit a complete traffic plan consistent with requirements of the project specification and all requirements per the City of San Francisco. The submittal must be made in a timely fashion to allow for the review timeframe prescribed in the specifications plus an additional four weeks for review by the TCC.

Upon receipt of the submittal from trade subcontractor, W/O will forward it to the TCC for review. The plan will be reviewed for adherence to specifications and for compatibility with previously submitted plans. Comments will be returned to the trade subcontractor who will make modifications as is appropriate.

When the trade subcontractor's traffic control plan is reviewed and coordinated with the TCC, it will be submitted to the TJPA Representative for approval. Submittal will be in compliance with Specification Section 01 15 70, paragraph 1.4B.

Upon approval by the TJPA Representative and SFMTA, the TCC will update the baseline traffic

control plan as appropriate. The baseline plan will be updated only when a change to the traffic pattern will be in place for three or more months. If the traffic control plan will be in place for less than three months, the plan will be superimposed over the base map for coordination but the baseline drawing will not be modified.

FIELD IMPLEMENTATION

It is intended that the TCC will maintain a regular, but not full time, presence on site. Similar to the traffic control design review, their scope of work is to review the trade subcontractor's adherence to city standards, project specifications and approved traffic control plans.

TCC review and assistance in in field coordination includes but is not necessarily limited to:

- Perform site review of traffic control;
- Note traffic control deficiencies;
- Coordinate correction of site deficiencies with W/O and trade subcontractor;
- Provide daily report of traffic control observations and corrective measures;
- Attend site meetings as necessary to review short term Special Traffic Permit and coordinate between subcontractors and SFMTA;
- Miscellaneous coordination with SFMTA as necessary;
- Review of pedestrian protection as it relates to vehicle traffic;
- Provide traffic control devices and personnel as required to augment traffic control efforts;
- Confirm proper training of subcontractor flagging personnel;
- Provide continuous oversight of traffic control for major construction operations as determined by CM/GC.

TASKS NOT CURRENTLY ANTICIPATED BY TCC

Training of flaggers for the trade subcontractors although it is an option should it become apparent that subcontractor employees need additional training.

Coordination of the 10b police officers between subcontractors will be the responsibility of the CMO.

Pedestrian control unless it is specifically impacted by vehicle traffic.

TRANSBAY TRANSIT CENTER – TRAFFIC CONTROL PLAN PREPARATION PACKET

Overview

The purpose of this packet is to provide the contractor with the information necessary to prepare a Traffic Control Plan (TCP) for their work in accordance with the requirements of the Project Specifications and the City and County of San Francisco (CCSF). It includes procedures, timing, a base map, plan sheet template and examples for use when preparing and submitting Traffic Control Plans (TCPs) for review and approval. The documents included in the TCP Packet are described below.

Flow Diagram

The flow diagram included within the TCP packet identifies the specific components and required time intervals for TCP submittal, review and approval. Please note time requirements for Plan review and approval. No work will be allowed without an approved plan. It is the contractor's responsibility to anticipate and allow for required lead times.

Base Map File

The AutoCAD drawing of the Base Map file included in this packet represents the City of San Francisco street layout as of the date indicated on the Base Map file title block. <u>ALL</u> proposed TCPs shall be created using this Base Map file as a starting point. It is crucial that proposed TCPs be provided on the same coordinate system as the Base Map file so multiple approved TCPs can be overlain in a composite exhibit. TCPs prepared using a different base or plan template will be rejected.

TCP Standards

Design Standards

The Traffic Control Plans shall be prepared and submitted in accordance with the following documents:

- 1. Transbay Transit Center Project Specification Section 011570 Traffic Routing Work, dated September 23, 2010. A copy of this specification is included in the TCP Packet.
- 2. City and County of San Francisco Regulations for Working in San Francisco Streets (Bluebook), 7th Edition dated October 2006. Refer to the following link for a copy of this document: http://www.sfmta.com/bluebook

CAD Standards

The sheet TCP-001 provides a template with title block, symbols, and specific details pertaining to the presentation and setup of drawings to be used when preparing a TCP. The CAD standards identified under the Vendor Submittal Instructions, including layering configuration, title block, and symbols, shall be referenced and followed when

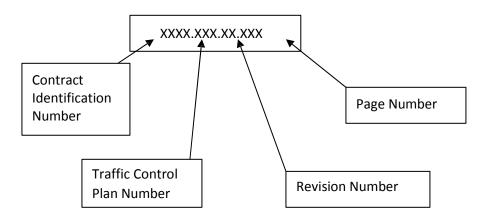
creating all TCP AutoCAD drawings. The contractor shall include additional signs in the form of blocks, notes, and details as needed.

TCP Samples

There are three sample Traffic Control Plans included in this packet. These samples provide an example of how the TCPs shall be set up and configured.

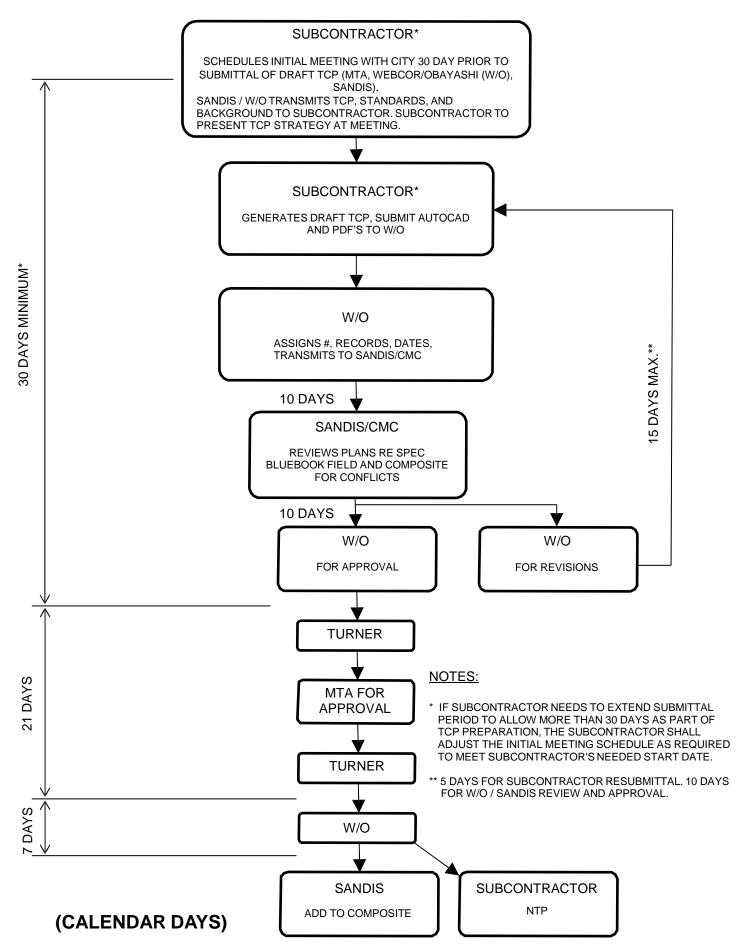
TCP Submittals

All proposed Traffic Control Plans shall be submitted at 1"=80' scale on 22"x34" sheet size in both pdf and AutoCAD 2007 formats. They are to be submitted electronically to Webcor-Obayashi's trade package project manager. An important item to be included on all TCP sheets is the submittal tracking number. The tracking number consists of four segments separated by a period. The first segment is the 4-digit contract identification number, the second segment the 3-digit TCP number (provided by Webcor), the third segment is the 2-digit revision number, and the fourth the 3-digit page number. Refer to the Submittal Tracking Number Diagram below for additional direction.



Submittal Tracking Number Diagram

TRAFFIC CONTROL PLAN SUBMITTAL REVIEW AND APPROVAL PROCESS



VENDOR SUBMITTAL INSTRUCTIONS

TRAFFIC CONTROL PLANS SHALL BE SUBMITTED AS FOLLOWS:

- 1) FIVE (5) HARD COPIES
- 2) ELECTRONIC COPY IN PDF AND AUTOCAD 2007 FORMATS
- 3) 11"x17" SHEET SIZE
- 4) 1"=80' SCALE
- 5) SHEET NUMBERING "TCP-###"
- 6) ELECTRONIC FORMAT PER TEMPLATE PROVIDED: SINGLE CAD FILE CONTAINING MULTIPLE LAYOUT TABS WITH A SINGLE TCP PER TAB. THE TCP SHALL BE DRAFTED IN MODEL SPACE ON TOP OF THE STREET BASE FILE WITH NOTES/LEGEND IN PAPER SPACE. MODEL SPACE SHALL BE DRAFTED AS FOLLOWS:
 - a) EACH TCP PAGE SHALL CONSIST OF FIVE LAYERS WITH A PREFIX FOR THAT PAGE NUMBER. FOR EXAMPLE, PAGE 001 WOULD CONTAIN THE FOLLOWING LAYERS:
 - 001-TC-DIM
 - 001-TC-NOTES
 - 001-TC-SIGN
 - 001-TC-SIGNTEXT
 - 001-TC-STRIPELINE
 - 001-TC-WORKAREA
 - b) ALL SYMBOLS, BLOCKS AND DIMENSIONS SHALL MATCH THOSE ON THIS SHEET IN SIZE, COLOR, AND LAYER. CREATE NEW BLOCKS USING SIMILAR COLOR AND SIZE FOR SIGNS/DEVICES NOT SHOWN HERE.
 - c) INSERT STANDARD TITLE BLOCK PER SHEET. USE ATTRIBUTE EDITOR TO FILL IN TITLE BLOCK WITH APPLICABLE INFORMATION.
 - d) TABLES, NOTES, AND LEGENDS SHALL BE IN PAPER SPACE PER SHEET ON LAYER XXX—TC—GENERAL, WHERE XXX IS THE PAGE NUMBER
 - e) STANDARD TEXT STYLES, SIZES, DIM STYLES PER TEMPLATE
 - f) STANDARD LAYER COLORS AND NAMES; AND CTB/PEN SETTINGS PER TEMPLATE
 - g) FREEZE LAYERS IN VIEWPORTS AS NECESSARY TO ONLY SHOW THOSE NEEDED FOR THAT INDIVIDUAL SHEET.
- 7) REFER TO PROVIDED SAMPLE TCP PLAN FOR AN EXAMPLE OF THE FORMAT BEING IMPLEMENTED.



















NOTE: SAMPLE TEXT FOR FREESTANDING NOTES.



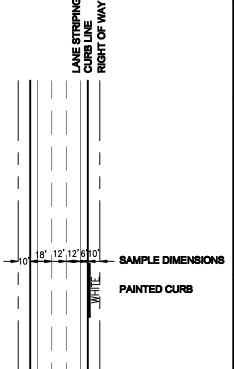


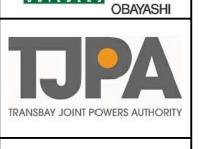
----- K-RAIL

TYPE 3 BARRICADE
TYPE 2 BARRICADE

- CHANNELIZER SIGN ON MAST ARM
- SIGN ON LIGHT POLE / SIGNAL
- SIGN ON POST
- FLAGGER
- FLASHING ARROW SIGN
- POLICE OFFICER

TRANSITION / LANE DIMENSION





VENDOR

PROJECT 1

PROJECT 2
PROJECT 3

PROJECT

XXXX.XXX.XXX

WEBCOR SUBMITTAL No.

APPROVAL
TURNER

SFMTA

RECEIVED ______ INITIAL

1ST REVIEW _____ ___

2ND REVIEW _____ ___

APPROVAL _____ ___

No. REVISION DATE

X ---- XX/XX/XX

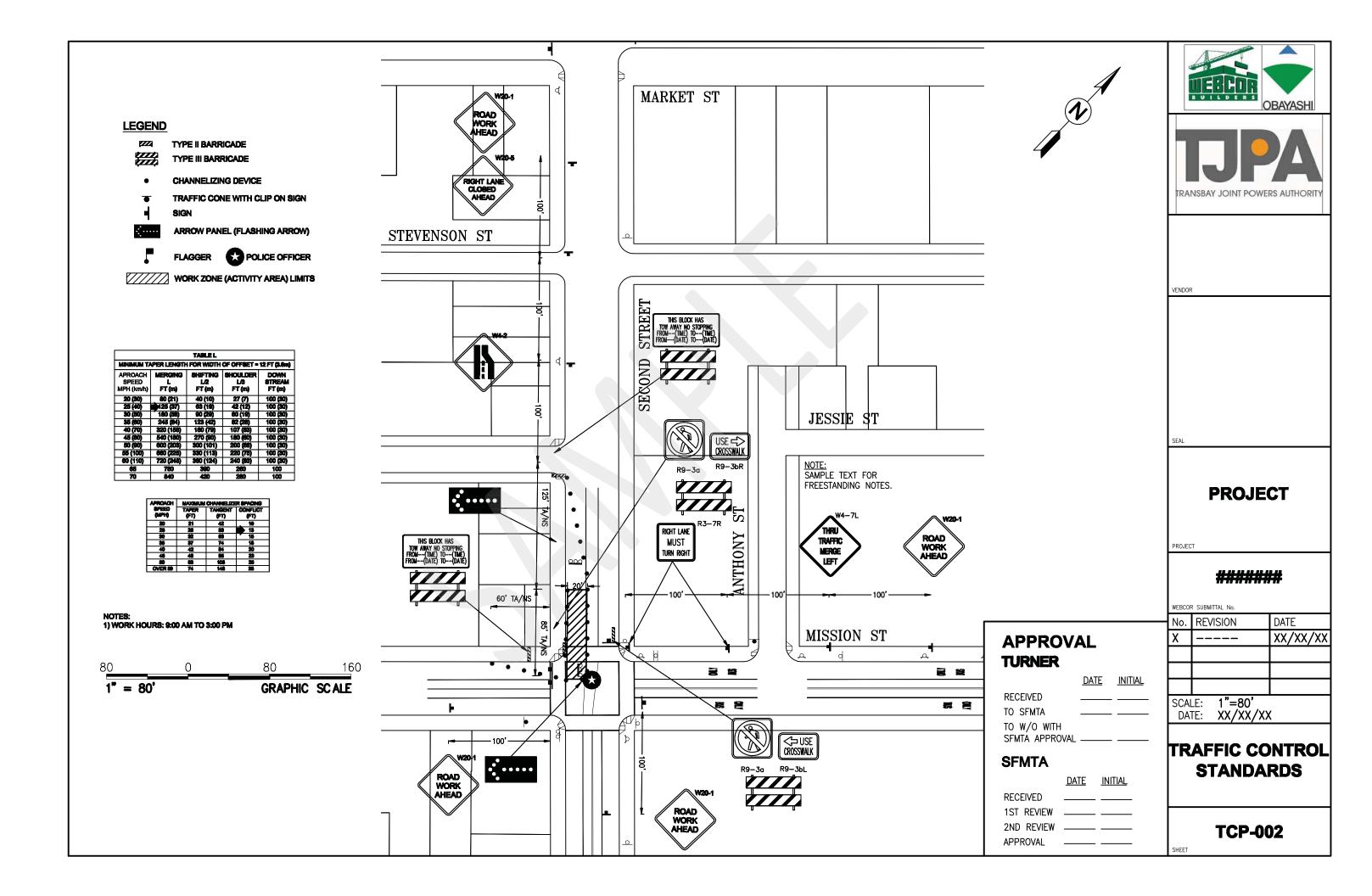
SCALE: 1"=80'

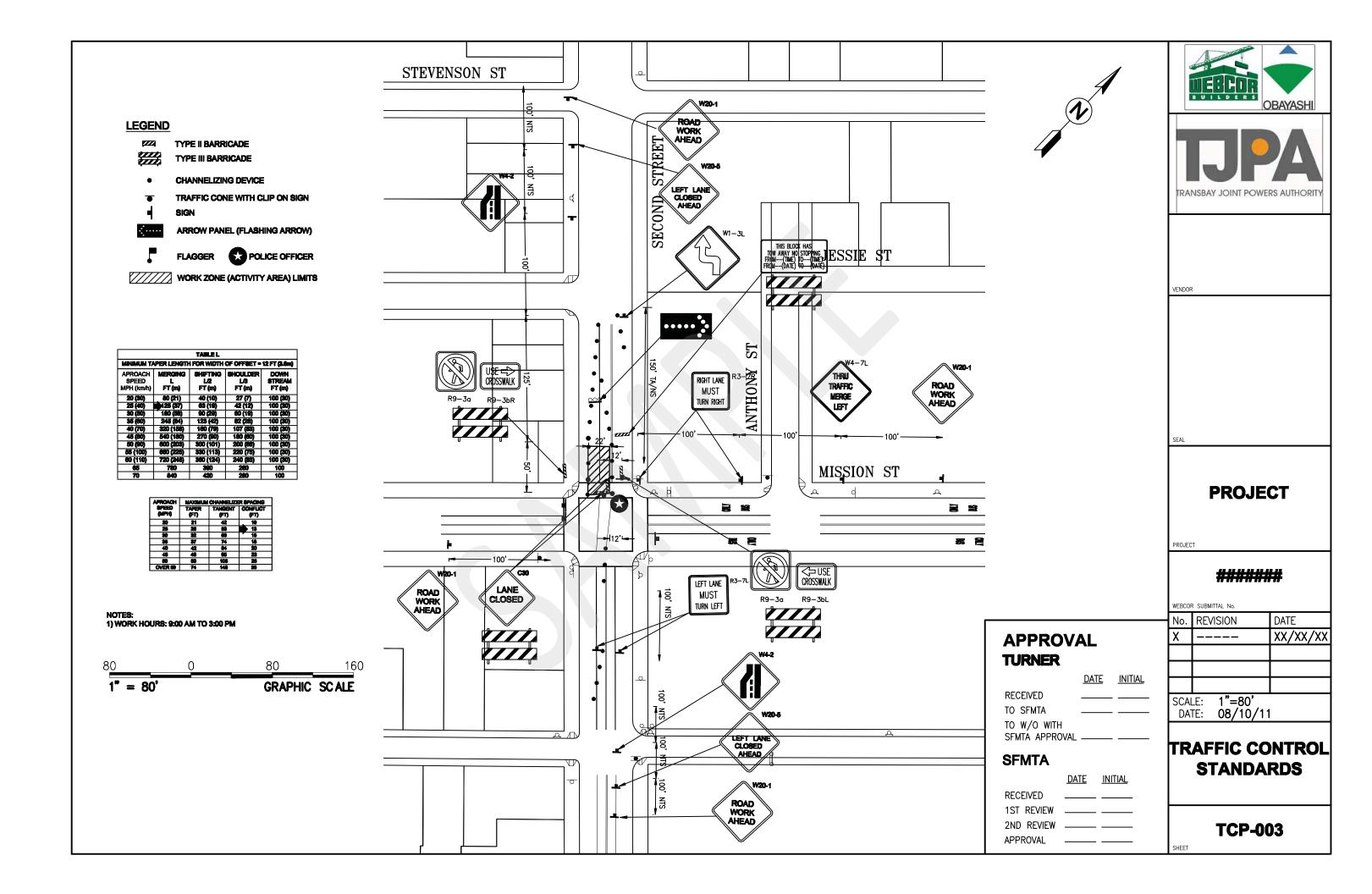
DATE: XX/XX/XX

TRAFFIC CONTE

TRAFFIC CONTROL STANDARDS

TCP-001





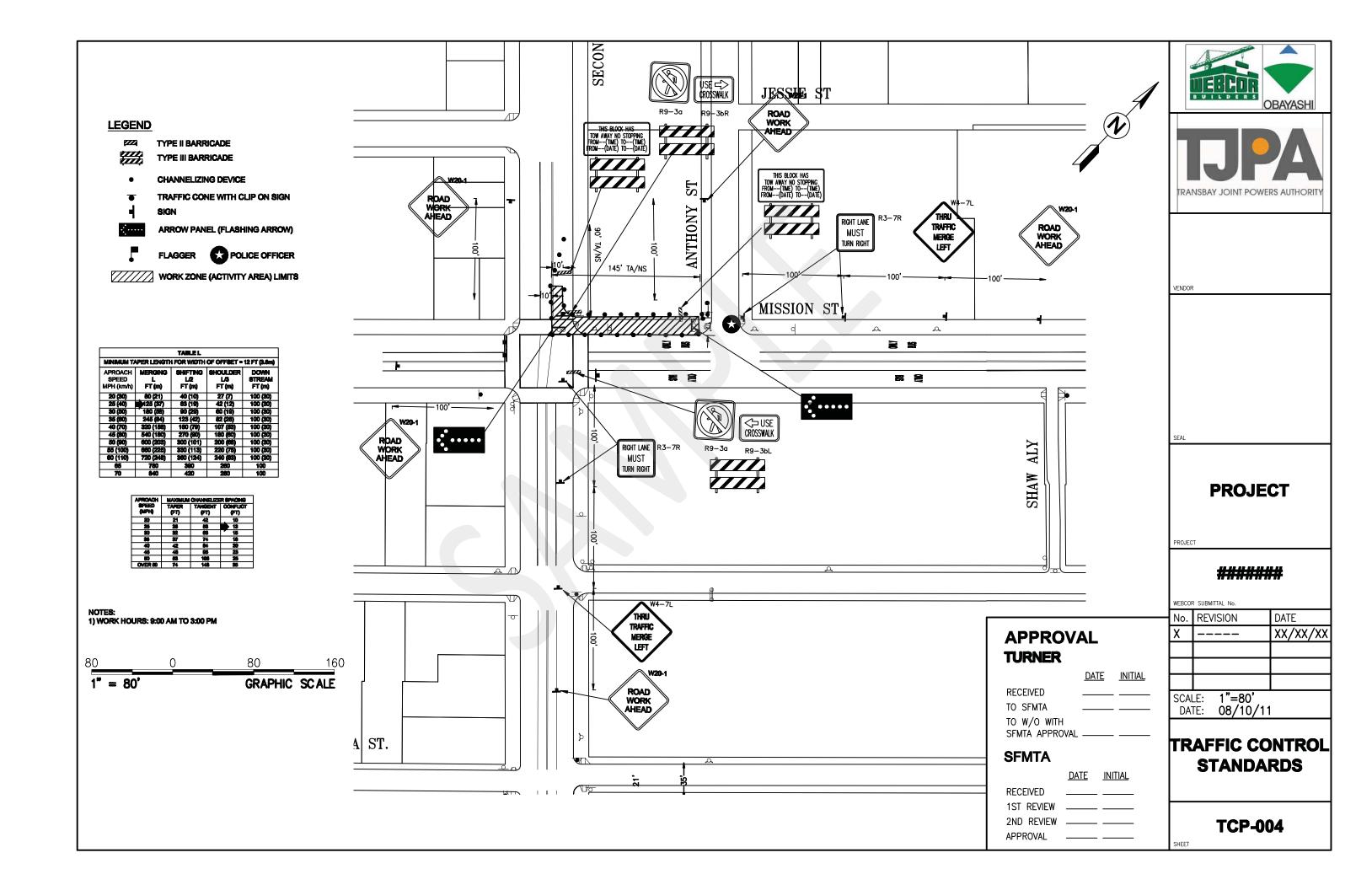


Exhibit U Submittal Schedule

Trade Subcontractor's Schedule submission shall include a full submittal schedule per Specification Section 01 13 00 1.4 – Submittal Schedule.

- 1. All submittals are to be submitted to Webcor/Obayashi Joint Venture within 60 days of Award.
- 2. The Submittal Schedule shall contain additional data fields to indicate: 1) the duration in work days for procurement of the item starting from the date that the submittal is approved until the item is available for construction, and 2) the Activity ID of the earliest construction activity for which the item will be required (the submittal/procurement item's successor).
- 3. The Trade Subcontractor should use the attached data format, Submittal Schedule Excel Template, for the submission of Submittal Schedule as Microsoft Excel File. Contact Webcor/Obayashi Joint Venture to obtain the blank excel file of the Submittal Schedule.
- 4. The Trade Subcontractor shall show critical submittals in the Exhibit I Construction Schedule in addition to providing the comprehensive submittal schedule required herein. Critical submittals are those submittals considered vital to the timely progression of the project schedule. These items may include, but are not limited to, engineering submissions; long lead items; items required within the first 25% of Subcontractor's performance period; and items that are required for construction or installation of a task with less than 20 working days of total float in the overall project schedule. The last group of items may not be determined until after acceptance of the Trade Subcontractor Construction Schedule submission and its full incorporation into the project schedule. Therefore, the Subcontractor may be required to add items to its Primavera schedule file subsequent to approval of its Construction Schedule submission.

Submittal Schedule Data Format

		PMFSMI_PROJ_	CODE PMFSMI_SBMT_ID	PMFSMI_SBMT_NAME		PMFSMI_REC_FROM_PARTN_ABBREV	PMFSMI_REC_FROM_CONTACT_COD	PMFSMI_RET_BY_PARTN_ABBREV	PMFSMI_RET_BY_CONTACT_COD	PMFSMI_SENT_TO_PARTN_ABBREV	PMFSMI_SENT_TO_CONTACT_COD	PMFSMI_FWD_TO_PARTN_ABBREV	PMFSMI_FWD_TO_CONTACT_COD
Always 30		Project #	Submittal #	Submittal Name		Received From Partner Abbreviation(Sub)	From Contract Code(Sub)	Return By Partner Abbreviation (Achitect)	Returned By Contact Code(Architect)	Sent To Partner Abbreviation (Architect)	Sent to Contact Code (Architect)	Forward To Partner Abbreviation(Sub)	Forward to Contact Code(Sub)
	30		30100 IT-000000-0011	Test Submittal	TG###-001	IADERH023	BOBBRO2	TURNE361		TURNE361			

Submittal Schedule Data Format 2/4

PMFSMI_REQUIRED_START_DATE DATE:		DATE 'DD-M' PMFSMI_CLV_VALUE_CODE1		PMFSMI_CLV_VALUE_CODE2		PMFSMI_CLV_VALUE_CODE3		PMFSMI_CLV_VALUE_CODE4	PMFSMI_CLV_VALUE_CODE5	PMFSMI_SBMT_STATUS_CODE
DO NOT USE	DO NOT USE	LEED MR 1 (See Sheet 2)	Credit Specific Data	LEED MR 2 (See Sheet 2)	Credit Specific Data	LEED EQ (See Sheet 2)	Credit Specific Data			Use PEND
										PEND

Submittal Schedule Data Format

AFSM_CONTRY_START_DATE_DATE DO MORRAY PURSM_DATE_CHANGE_CODE PURSM_COPES NUM_PARSM_LEAD_TIME_STAGES PARSM_LEAD_TIME_STAGES PARSM_LEAD_TIM													
DO NOT USE Number of Copies Lead time Flobrisation Lead Time Float Lead Time F	PMFSMI_ACTIVITY_START_DATE DATE 'DD-MON-RRRR'	PMFSMI_DATE_CHANGE_CODE	PMFSMI_COPIES_NUM	PMFSMI_LEAD_TIME_STAGE6	PMFSMI_LEAD_TIME_STAGE5	PMFSMI_LEAD_TIME_STAGE4	PMFSMI_LEAD_TIME_STAGE3	PMFSMI_LEAD_TIME_STAGE2	PMFSMI_LEAD_TIME_STAGE1	PMFSMI_SPEC_SEC_CODE	PMFSMI_SORT_ORDER_NUMBER		DATE 'DD-MON-RRRR')
6 6 5 21 5		DO NOT USE	Number of Copies	Lead time Delivery	Lead Time Fabrication	Lead Time Float	Lead Time Arch Review	Lead Time Webcor Review	Lead Time From Sub to Web	Spec Section	DO NOT USE	DO NOT USE	
			6	5	5	8 6	21	1	5	5			

Submittal Schedule Data Format 4/4

PMFSMI_TYPE_CODE	PMFSMI_SPEC_SUBSEC_CODE	PMFSMI_PROC_FLG	Schedule Activity ID
Type Code(See Sheet 2)	Spec Sub Section	Procurement Flag	
		Choose Yes or No	

Submittal Types	
3DCORD	3D Coordination
ASBUILT	As Built Drawings
ATTIC	Attic Stock
BRUSH	Brushouts
CALC	Calculations
CERT	Certificates
CLOSE	Close Out
COMM	Commissioning
DRAW	Shop Drawings
LEED	LEED Documentation
METHODS	Methods
MOCK	Mock Up
MSDS	MSDS Documentation
PRIME	Prime Level
PROD	Product Data
QUAL	Qualifications
SAMPLE	Samples
SCHED	Schedules
SURVEY	Survey
TEST	Test Reports

LEED MR1	
Code	
NC MR 3	Material Reuse
NC MR 4	Recycled Content
NC MR 5	Regional Materials
NC MR 6	Rapidly Renewable Materials
NC MR 7	Certified Wood
CS MR 3	Material Reuse
CS MR 4	Recycled Content
CS MR 5	Regional Materials
CS MR 6	Certified Wood
CIMR 3	Resource Reuse
CIMR 4	Recycled Content
CIMR 5	Regional Materials
CIMR 6	Rapidly Renewable Materials
CIMR 7	Certified Wood

LEED MR2	
Code	
NC MR 3	Material Reuse
NC MR 4	Recycled Content
NC MR 5	Regional Materials
NC MR 6	Rapidly Renewable Materials
NC MR 7	Certified Wood
CS MR 3	Material Reuse
CS MR 4	Recycled Content
CS MR 5	Regional Materials
CS MR 6	Certified Wood
CIMR 3	Resource Reuse
CI MR 4	Recycled Content
CIMR 5	Regional Materials
CIMR 6	Rapidly Renewable Materials
CIMR 7	Certified Wood

LEED EQ

Code	
NC EQ 4.1	Low-Emitting Materials: Adhesives & Sealants
NC EQ 4.2	Low-Emitting Materials: Paints & Coatings
NC EQ 4.3	Low-Emitting Materials: Carpet Systems
NC EQ 4.4	Low-Emitting Materials: Composite Wood & Agrifiber Products
CS EQ 4.1	Low-Emitting Materials: Adhesives & Sealants
CS EQ 4.2	Low-Emitting Materials: Paints & Coatings
CS EQ 4.3	Low-Emitting Materials: Carpet Systems
CS EQ 4.4	Low-Emitting Materials: Composite Wood & Agrifiber Products
CI EQ 4.1	Low-Emitting Materials: Adhesives & Sealants
CI EQ 4.2	Low-Emitting Materials: Paints & Coatings
CIEQ 4.3	Low-Emitting Materials: Carpet Systems
CIEQ 4.4	Low-Emitting Materials: Composite Wood & Agrifiber Products
CIEQ 4.5	Low-Emitting Materials: Systems Furniture & Seating



QUALITY COMMISSIONING PROCEDURES AND GUIDELINES

Exterior Skin and Waterproofing Systems

EXHIBIT "W"

The information, processes, techniques, material and other matters contained in the Quality Commissioning Procedures and Guidelines are proprietary, confidential, and unique to WEBCOR/OBAYASHI.

The Quality Commissioning Procedures and Guidelines shall only be used for WEBCOR/OBAYASHI only.

Any other use without the expressed written consent from an Officer of WEBCOR/OBAYASHI is prohibited. Any unauthorized use could give rise to liability under the California Civil Code Sections 3426 et seq. involving Uniform Secrets Act, the California Business and Professions Code Sections 17200 et seq. involving Unfair Competition and 17500 et seq. involving Unfair Practices, the common law of unfair competition and interference with contractual relations and prospective advantage.

Table of Contents

1.0 - Commissioning Purpose	1
2.0 - Definition of Commissioning	1
3.0 - Description of the Commissioning Process	2
4.0 - Commissioning Plan	2
5.0 – Objectives	3
6.0 - Participating Contractors	3
7.0 - Commissioning Team	4
8.0 - Meetings	4
9.0 - Trade Subcontractor Performance Requirements	5
10.0 - Information Management	7
11.0 - Trade Subcontractor Submittal Requirements	7
12.0 - Commissioning Binder Tab Index	8
13.0 - Identifying Defects	9
14.0 - Applicable Standards	9
15.0 - Schedules	10
16.0 - Execution of Checklists	10
17.0 - Field Inspections	10
18.0 - Field Witnessing and Quality Control	11
19.0 - Documentation	11
20.0 - Testing and Methods	11
21.0 - Engineering Analysis	15
22.0 - Deficiencies and Non-Conformance	16
23.0 - Remedial Work	16
24.0 - Project Commissioning Closeout	16

QUALITY COMMISSIONING PROCEDURES AND GUIDELINES Exterior Skin and Waterproofing Systems

- ✓ Roofs
- ✓ Decks
- ✓ Windows
- ✓ Curtain Walls
- ✓ Exterior Wall Systems (Precast, Stucco, EIFS, GFRC)
- ✓ Water Shedding Systems

- √ Flashings
- ✓ Expansion Joints
- ✓ Caulking, Sealants
- ✓ Primary and Secondary Water Barrier Systems
- ✓ Above & Below Grade Waterproofing
- ✓ General Waterproofing Systems

1.0 Purpose

The purpose of this procedure and guideline is to set forth a commissioning process, which will ensure that the building's exterior envelop and waterproofing systems perform and function in conformity with design intent and to provide a means of verifying the implementation of these systems based on the project specifications, design and applicable industry standards.

2.0 Definition of Commissioning

The term "Commission" refers to a Quality Assurance process by which the building's exterior envelop and waterproofing systems (i.e., below and above-grade waterproofing, decks, roofs, caulking, plaster, precast concrete and GFRC, curtain-wall, flashing, expansion joints, etc.) are provided, installed and tested in order to verify the systems perform in accordance with the contract documents and the design intent.

Commissioning entails the development of a clear and complete process that verifies the systems design and operational intent. It also is to verify that the exterior envelop and waterproofing systems and its components are installed according to the contract documents, manufacturer's recommendations and published industry standards and that the system receives adequate installation and performance inspections by the installing contractor.

The process must include verifying and documenting the installation steps, phases, and system performance with respect to the design intent and the contract documents. Commissioning is a team effort that requires cooperation by all parties to succeed.

3.0 Description of the Commissioning Process

Commissioning is a "**systematic**" process for achieving, validating and documenting the performance of building systems as so that it meets the design intent and requirements.

- 1 - Exhibit "W"

The process extends through all phases from design to occupancy, and extending through the warranty period. Numerous checks and inspections shall be performed at each stage of the process to ensure that established procedures are followed. The process also includes training of facility operational personnel to ensure continued efficient use of the exterior envelop and waterproofing systems as originally designed and installed.

This guideline provides a uniform, integrated and consistent approach for the commissioning of all waterproofing systems as well as assisting in insuring product and design compatibility. Since many building waterproofing systems are integrated, a deficiency in one system or component may result in sub-optimal performance and failure among others.

4.0 Commissioning Plan

Commissioning is a "Quality Process" for validating the system and component design performance.

The reports from the commissioning process are not just test reports, but reports that document design, installation, inspections, and particular tests and or evaluation procedures. The commissioning plan is continually updated to reflect changes in program and design of the waterproofing system(s). Commissioning reports shall document and record the results of the commissioning process.

Each Trade Subcontractor's specific commissioning plan must be neatly organized in a consistent manner that reflects the nature of the building systems and their performance. The commissioning plan shall include schedules, requirements and procedures.

Trade Subcontractor(s) shall be responsible for the timely and efficient completion of all commissioning in accordance with the Subcontract Agreement.

At no time shall any work be permitted to commence without a WEBCOR/OBAYASHI' approved Trade Subcontractor Waterproofing Commissioning Program.

Failure to do so may require Trade Subcontractor to assume all related costs and expenses in accordance with the Subcontract Agreement.

In addition, Trade Subcontractor may also be required to assume all related cost should WEBCOR/OBAYASHI find it necessary to develop, manage and or perform any Trade Subcontractor commissioning work.

5.0 Objectives

The fundamental objectives of the commissioning process are:

5.1 Create a procedure to verify and provide documentation that the waterproofing performance of the facility meet the design requirements.

- 2 - Exhibit "W"

- 5.2 Enhance communication by documenting data and decisions throughout all phases of the project.
- 5.3 Validate and report that the performance of waterproofing systems meets design intent.
- 5.4 Provide a means of Quality Control and Quality Assurance (QA/QC) throughout all phases of the waterproofing system(s) installation, inspection, and testing process.

6.0 Contractors Normally Participating in the Commissioning Process

- ✓ Waterproofing Consultant
- ✓ Architect
- ✓ Structural Engineer
- ✓ Mechanical
- ✓ Plumbing
- ✓ Electrical
- √ Fire Sprinkler
- ✓ Glass Systems
- ✓ Caulking
- ✓ Brick, Tile, Precast, GFRC, and Stone
- ✓ Fountains and Ponds
- ✓ Swimming Pools & Spas
- ✓ Roofing
- ✓ Insulation
- ✓ Flashing & Sheetmetal
- ✓ Waterproofing Contractors
- ✓ Concrete (If waterproofing admixtures are included by design)
- ✓ Stucco, EIFS, DEFS systems
- ✓ Elastomeric Painting
- ✓ Rough Carpentry (Wood cladding)
- ✓ Architectural Metal Cladding
- ✓ Expansion Joint Systems
- ✓ Water Tanks
- ✓ Special Systems or Components

7.0 Commissioning Team

The commissioning team members may consist of the following:

✓ WEBCOR/OBAYASHI - Project Team as required

- 3 - Exhibit "W"

- ✓ Owner Designated representative of the owner, building operator/engineer, and/or the owner's construction management firm
- ✓ Engineers Architect and Designers
- ✓ Waterproofing Contractor
- ✓ Waterproofing Consultant
- ✓ Flashing / Sheet Metal Contractor
- ✓ Exterior Skin Contractor
- ✓ Roof Contractor
- ✓ Glass and Curtain Contractor
- ✓ Caulking and Sealants Contractor
- ✓ Commissioning Agent (CA)
- ✓ Mechanical Contractor
- ✓ Plumbing Contractor
- ✓ Fire Sprinkler Contractor
- ✓ Electrical Contractor
- ✓ Testing Contractor
- ✓ Other as necessary

8.0 Meetings

Regularly scheduled commissioning meetings of **the entire team** shall be conducted for site coordination, communicating issues of concern, resolving conflicts, reporting on system process and status, identifying urgent work and all deficiencies.

Commissioning meetings are critical to the **Quality** of the commissioning process as well as timely completion of the project.

- 4 - Exhibit "W"

9.0 Trade Subcontractor Performance Requirements

- 9.1 Designation of the primary person who will be responsible, accountable, and act as the main contact person for all commissioning communications. Provide organizational chart indicating personnel who will be involved in the project. The chart should indicate factory, office, and on-site field personnel.
- 9.2 Review of drawings and specifications for completeness, appropriateness of details, and acceptance by Trade Subcontractor thereof.
- 9.3 Review WEBCOR/OBAYASHI standard details.
- 9.4 Preparing and submitting documentation of Trade Subcontractor's respective materials and systems to be integrated into the overall Commissioning Plan.
- 9.5 Submitting information on the intended commissioning protocol used on materials, and the integration into the system as a whole.
- 9.6 Provide a presentation of the commissioning process to WEBCOR/OBAYASHI, the Owner and or the owner's representatives. Demonstration shall indicate compliance with the Trade Subcontractor Commissioning requirements as outlined in this document.
- 9.7 Submitting shop drawings detailing waterproofing system layout as outlined in the contract documents. Shop drawings shall reflect all conditions present in the building, including but not limited to the following:
 - a. Conditions where different materials meet (i.e. windows to plaster or stone to plaster).
 - b. Corner conditions.
 - c. Conditions where vertical planes meet horizontal planes (i.e. soffits and sills).
 - d. Expansion joints and control joints.
 - e. Flashing.
 - f. Penetrations (i.e. Z-ducts, electrical outlets, louvers).
 - g. Conditions typically utilized by Trade Subcontractor's common practices.

Shop drawings shall include installation drawings indicating the planned sequence of installation of all components.

- 9.8 Providing means and method for preliminary testing of the exterior envelop and waterproofing systems with manufacturer's representative present as required:
 - a. Caulking: Include complete coordination with the caulking manufacturer's representative to assure compatibility of the caulking system with the

- 5 - Exhibit "W"

surrounding substrate and finishes. Trade Subcontractor shall submit caulking samples including manufacturer's specifications for materials, color, cleaning procedure, required primers, proper backer rod, installation procedures, testing requirements and results. Testing of caulking samples between all combinations of materials shall be performed by qualified testing agencies in direct accordance with A.S.T.M. Standard Test Method C794 (75), including seven (7) day immersion. A letter from the Caulking Manufacturer shall be submitted approving all testing procedures, the installation procedure and the use of the specified materials for the intended application. Any materials installed without such approval that may be in conflict with the approved procedures or of unacceptable color and appearance will be removed and replaced at the Trade Subcontractor's expense.

- b. Windows and Sliding Glass Doors: Assemblies shall be field tested in accordance with American Architectural Manufacturers Association (AAMA) 502-02 Voluntary Specification for Field Testing of Windows and Sliding Glass Doors using Test Methods A and B, testing a minimum of 1% of the products for air leakage resistance and water penetration resistance as specified for various stages of the product installation.
- 9.9 Reviewing all required testing under the witnessing of WEBCOR/OBAYASHI, Building Owner, and or the Owners representatives.
- 9.10 Correcting all system deficiencies at Trade Subcontractor expense.
- 9.11 Obtaining all required permits, code required inspections and final certifications.
- 9.12 Preparing complete as-built record drawings made from an original set that has been marked up throughout the duration of the project. Drawings must indicate all work as it was actually installed showing change order revisions, field changes required to meet the working conditions, and any other items that will affect or reflected in the operation and maintenance of the facility.
- 9.13 Obtaining all manufacturer's warranties and guarantees.
- 9.14 Organizing the O&M manuals, if any, from suppliers and manufacturers.

- 6 -

9.15 Performing any specified training for the facility's operational staff.

Exhibit "W"

10.0 Information Management

The management and continued organization of the commissioning information shall be the sole responsibility of the Trade Subcontractor.

WEBCOR/OBAYASHI and the Trade Subcontractor shall mutually agree on the location were all the commissioning information and documentation shall be stored.

The Trade Subcontractor shall make every effort to continually update and manage the information throughout the commissioning process. WEBCOR/OBAYASHI and the Building Owner may review the commissioning information provided by the Trade Subcontractor at any time for updates, accuracy and completeness.

WEBCOR/OBAYASHI may elect to withhold or make appropriate adjustments to the Trade Subcontractor's monthly progress billing in the event the commissioning information or performance requirements as described in the Waterproofing Quality Commissioning Procedures & Guidelines are not being performed, managed and updated by the Trade Subcontractor.

11.0 Trade Subcontractor Commissioning Submittal Requirement

Each Trade Subcontractor has a responsibility to WEBCOR/OBAYASHI and the Building Owner to comply with the terms of the contract and to verify that the design intent of the waterproofing systems for the project is achieved.

Each Trade Subcontractor is required to provide two completed commissioning manuals containing the information outlined in Section 19 - Commissioning Binder Tab Index of this guideline. Each proposed formatted "3-ring" binder containing all information, including blank forms shall be provided to WEBCOR/OBAYASHI and the Owner for "review and comment" before the commissioning process begins, or by an agreed upon date.

WEBCOR/OBAYASHI, the Owner and the owner representative shall review the information and return it to the Trade Subcontractor within **two-week** time with all comments.

Each Trade Subcontractor shall make all required changes as agreed, to the commissioning manuals and resubmit them to WEBCOR/OBAYASHI within **two-weeks**.

Each Trade Subcontractor shall schedule and provide a formal demonstration of their commissioning process to WEBCOR/OBAYASHI, the Owner and the Owners representative after all required changes to the manuals have been satisfactory completed. Demonstration shall indicate compliance with the Trade Subcontractor Waterproofing Commissioning requirements as outlined in this document.

Each Commissioning Manual **shall be neatly organized** using appropriate tabs, dividers, table of content, index, etc. as required for easy referencing. Refer to Section 19 Commissioning Binder Tab Index for a standard binder organization. All Commissioning Manual(s) **must be user friendly**.

- 7 - Exhibit "W"

12.0 Commissioning Binder Tab Index

- **Tab 1. Project design criteria specifications** Provide information that describes the overall design criteria and performance requirements for the waterproofing system(s).
- **Tab 2. Manufacture products and components** Provide complete submittal list of all components that shall be contractually provided and installed.
- **Tab 3. Manufacture installation instructions** Provide manufacture documentation insuring that the system and components installation complies with all Manufacture requirements to maintain performance and guarantee obligations.
- **Tab 4. Manufacture details** Provide manufacture details or published industry standards for penetrations and terminations interfacing with other installed systems.
- **Tab 5. Design transition review** Provide design review comments and concerns on transition interfaces to other s or other compatibility issues.
- **Tab 6. Quality Assurance / Quality Control Program** Provide QAQC program with complete field inspections and checklists.
- **Tab 7. Documentation** Trade Subcontractor shall maintain a separate field binder documenting the QAQC inspections and field-testing for all installed work.
- **Tab 8. Field mock-up and testing** Provide information on mock-up or field performance tests that shall be preformed for all installed system(s). Provide manufacture recommendations or published testing standards used. If no performance testing is preformed, Trade Subcontractor shall provide documentation on how each system is performing in accordance to the documented design intent and contract warranty requirements.
- **Tab 9. Schedule** Provide schedule for, shop drawing devolvement, submittals fabrication, delivery and installation.
- **Tab 10.** Agency and factory test reports Provide all factory, agency, and field performance-testing reports on installed systems.
- **Tab 11.** Factory and Trade Subcontractor guarantee information Provide warranty responsibilities and durations for all systems and components installed.
- **Tab 12. Owner Training** Provide (O&M) and training for all required service and maintenance requirements as it extends throughout each system to maintain warranty. Include owner sign-off sheets verifying training.

- 8 - Exhibit "W"

- **Tab 13.** Attic Stock Provide list of spare material that shall be supplied by Trade Subcontractor to owner Paint, applied materials, gaskets, handles, glazing, or patching products.
- **Tab 14. As-Built Drawings** Provide completed set of drawing and details accurately reflecting all installed and completed work.
- **Tab 15. Material Safety Data Sheets** Provide all Material and Data Safety Sheets (MSDS).

13.0 Identifying the Defects

It is the intent of the commissioning process to avoid defects in waterproofing systems. A standard of care exhibited during the commissioning process should anticipate potential defects and determine appropriate solutions prior to the installation of these systems. In the event that defects do occur, proper defect identification will help determine the repair needed and assist in selecting the appropriate method and materials.

It is important to acknowledge which factors have caused deficiencies in the waterproofing system and its components, and how a deficiency in one system may influence or amplify another. Careful and thorough defect identification is critical to obtain long-lasting, quality repairs. It is critical and necessary to eliminate the cause of the defect and not solely treat the symptom.

Each Trade Subcontractor shall be responsible for determining the cause and origin of various problems as it pertains to their contractual scope of work. Failure to do so may require Trade Subcontractor to assume all related costs and expenses for damages, repairs performed by others, testing, special inspections, and consultant fees.

14.0 Applicable Industry Standards

Unless the Contract Documents include more stringent requirements, applicable published construction industry standards shall be utilized. Where compliance with two or more standards is specified for quality or quantity levels, comply with the most stringent requirement.

Where sections of the specifications require that a product, material, installation, or test complies with a specified industry standard, the Trade Subcontractor shall obtain copies directly from the publication(s) source and include the information in the submitted commissioning information.

Each Trade Subcontractor engaged in construction on the project must be familiar with published industry standards applicable to their construction activity.

15.0 Schedules

An initial schedule shall be developed by the Trade Subcontractor identifying dates, times, and durations for shop drawings, approval of submittals, material fabrication, product delivery, acceptance, installation, testing and completion.

- 9 - Exhibit "W"

The schedule shall also include any commissioning task that shall be performed on waterproofing systems that may involve or affect other related building systems.

Each Trade Subcontractor shall update schedules, daily, weekly, monthly, or as required to keep WEBCOR/OBAYASHI and the Owner informed of the activities performed. This schedule will indicate appropriate milestones during the installation to allow WEBCOR/OBAYASHI and or the Owner the ability to observer and witness system installations prior to being cover up by subsequent s. The schedule will indicate milestone dates for Trade Subcontractor inspection and testing.

16.0 Execution of Inspections and Checklists

Trade Subcontractor and or vendors shall schedule initial inspections and checklist review with the commissioning team. The inspections and reviews shall be directed, executed, and documented by the Trade Subcontractor or vendor.

To document the process, the Trade Subcontractor performing the task shall provide and complete all documentation forms and checklists. (See attached sample checklist)

17.0 Field Inspections

One of the most important commissioning activities for waterproofing systems is field inspections. The field inspection process shall serve as a method and means of documenting the installation process as well as indicate variations between contractual design and construction.

Each Trade Subcontractor shall identify in detail the scope of their field inspections, and the types of field procedures that will be required to obtain the necessary information to provide a complete waterproofing quality control evaluation at the completion of the job.

18.0 Field Witnessing of Trade Subcontractor's Quality Control

WEBCOR/OBAYASHI, the Owner, consultants and the Architect reserve the right to witness the waterproofing system installation at any time. Spot checks shall be conducted on a random basis. If inconsistencies are discovered in quality, performance, or if commissioning information differs from those submitted, the Trade Subcontractor may be required to completely remove and remedy all conditions where the inconsistencies occurred at no additional cost or impact to the schedule.

Witnessing shall include all or part of, but not limited to the following:

- 14.1 Mock ups
- 14.2 Waterproofing component and system installation
- 14.3 System inspection and checks
- 14.4 Performance tests

- 10 - Exhibit "W"

14.5 Special Inspections

19.0 Documentation

Trade Subcontractor shall maintain a separate field binder documenting quality control inspections and field-testing for all installed work. Documentation shall include dates, quality control field checklist, reports with inspected locations defined by grid lines and elevations. Provide a dated photo log, documenting inspected areas and general sequence of installed work for the duration of the project.

20.0 Testing and Methods

The objective of field-testing is to correlate paths of moisture infiltration and to observe the source of damages. Moisture entering a building during extreme weather may be obvious, but the most reliable method to discover the infiltrating path is to recreate the leakage condition in a controlled manner. Testing also allows verification of the theory for the cause of leakage.

As all system and component tests are unique to some degree, there may not be one standard or method for testing that can be applied to all. There are several methods, standards, governing requirements, and manufacture recommendations, etc., which should be applied.

There are three types of acceptable testing methods that can be used during the investigation. All of which must be approved by WEBCOR/OBAYASHI. These testing categories include:

- ✓ Non-Destructive Testing
- ✓ Destructive Testing
- ✓ Laboratory Testing

20.1 Non-Destructive Testing

Non-destructive testing uses a variety of non-invasive tools. This type of testing causes little or no damage or interference to the building envelope. The various methods of non-destructive testing include:

- a. *Rilem Tube* This calibrated device is adhered to exterior masonry walls to determine the porosity and condition of brick masonry units, mortar joints, head joints, and embedment joints.
- b. Water Spray Rack (ASTM E1105) This test simulates a wind-driven rain condition on a facility. It can assist in determining the specific cause and origin of moisture infiltration when it is used to test independent components of the envelope. Spraying water over a large area in an uncontrolled fashion will not reveal specific causes of water infiltration.
- c. Hose Spray Test (AAMA 501.2) This test method also simulates winddriven rain in small segmented areas using a standard garden hose in which a calibrated nozzle is attached with a pressure gauge. The spray is

- 11 - Exhibit "W"

- directed at a specific joint, crack, or defect to reveal potential moisture intrusion.
- d. Differential Pressure Test (ASTM E1105) A pressure chamber is constructed on the interior of the facility at a specific location to test moisture driven through an assembly or component. The assembly or component is subjected to a negative force while simultaneously a spray rack is directed at the assembly to draw the moisture into the facility to simulate a negative pressure under a wind-driven rain condition.
- e. *Infra-Red Thermography* Infra-red Thermography photographs the building exterior to determine the locations of wet components. Components, such as insulation and sheathing, etc., will act as heat sinks if they contain high levels of moisture. During the day, moist and dry components absorb heat. At night, the moist areas release the heat much slower than the dry areas. By reading the heat signature, Infrared Thermography will help expose the problem areas. Small test cuts may be required to verify moisture areas.
- f. Soundings (ASTM D4580) There are different ways to perform sounding tests including the hammer tap test. In this test, a 16 oz. hammer is tapped against concrete for sound. A hollow sound indicates areas where the concrete has separated from the reinforcing steel, typically due to exfoliation or corrosion of the steel. Another method of sounding is to chain drag a heavy 15 ft. link chain along a concrete surface to listen for hollow sounds, indicating defective concrete. This method can cover larger areas effectively and is commonly used on parking garages and loading docks.
- g. Pachometer Survey This test uses a magnetic device used to locate embedded steel reinforcement and help determine the concrete cover over the reinforcement. Generally, the Pachometer is fairly accurate when measuring ¼ inch to 3-inch thick concrete cover and when reinforcing placement is not too congested.
- h. Poly-sheet Tape-down This test determines the presence of moisture coming through a concrete surface, typically a slab-on-grade type of assembly where the typical problem is tile or membrane separation from the floor. A 2' x 2' section of polyethylene is sealed to the concrete with duct tape and removed 24 hours later. If there is moisture beneath the polyethylene, it is a good indication that there is a vapor drive through the concrete section.
- i. Glass-Slide Epoxy or Crack-o-meter This device is sealed in place over a crack and periodically checked to determine if any movement has occurred.
 If movement has occurred, the glass will crack or the meter will record movement.
- j. Optical Illuminated Boroscope A boroscope is inserted into a 5/8-in. diameter pilot hole through an exterior wall system and allows the cavity walls of brick veneer, stud wall backup of exterior insulated finish systems (EIFS), or other types of constructions to be observed without large-scale destructive testing.

- 12 - Exhibit "W"

- k. Smoke/Dust Tracer The smoke/dust tracer helps to find air infiltration. It is moved across the interior face of a window to observe the smoke and dust particles coming through the assembly.
- I. Moisture Meter A Delmhorst meter is a digital device that detects the presence of moisture in various building components. This test is typically accompanied by a gravimetric analysis (oven drying of samples), which is used to confirm the results of the Delmhorst meter.
- m. Flashlight and mirror These simple tools can be very useful to detect problem areas. Placing the mirror into the plenum or behind difficult-to-access areas with the flashlight will allow observation of concealed conditions.

20.2 Destructive Testing

When the main objective is to determine the existing composition and configuration of concealed assembly conditions, destructive testing may be warranted. The most common methods of destructive testing are test cuts and borings.

Any type of destructive testing must be reviewed and approved by WEBCOR/OBAYASHI.

- a. Roof Testing Test cuts in the roof assembly may be necessary to determine the condition of the underlying insulation and substrate. Cutting into the system may help verify whether roofing problems are causing corrosion of the steel deck, or a spalled and cracked concrete deck, etc. Test cuts may also expose the as-built configurations of the flashing components at roof-to-wall locations, curb locations, etc. This information is critical to the appropriate remedial design and/or repairs.
- b. Exterior Wall/Skin Testing Test cuts on exterior walls may be required to identify the origin of moisture infiltration. For masonry walls, it is most effective to make test cuts at window heads and sills, and at any throughwall flashing locations that may be suspected of allowing moisture intrusion. Masonry test cuts may expose defective through-wall flashing that is allowing moisture intrusion. Test cuts may also help determine the underlying conditions of the steel components in wall systems, including wall ties, reinforcing steel, sub-steel columns, etc.

20.3 Laboratory Testing

Destructive testing is also used to obtain samples for lab analysis. Samples of sealants, coatings, painted finishes, roofing materials, etc. can be sent to a laboratory to determine the presence of lead or asbestos. Samples of masonry or concrete can also be tested to help identify causes of moisture/air infiltration (descriptions of these analyses follow).

Laboratory testing may help obtain a better understanding of existing material types, presence of contaminants, and the possibility of hazardous components.

- 13 - Exhibit "W"

This type of testing can also provide valuable information concerning proper surface preparation, material selection, and implementation of repairs. The following laboratory tests are some of the more useful when performing building envelope evaluations:

- a. Gravimetric Analysis This test will determine moisture content. After weighing and recording the in-situ existing sample, completely dry the sample in an oven and re-weigh it. The weight difference indicates moisture content and is particularly useful for insulating materials. Testing moisture contents of samples is critical to verify results from non-destructive moisture scans.
- b. Petrography Petrography determines the "make-up" of concrete. This test will indicate the size and type of aggregate, air/void ratio, type of cement, and general mix design data of the concrete. Most materials testing lab can perform this test.
- c. *Air Entrainment* Provides an indication of the existing concrete's durability and freeze-thaw resistance. Air entrainment is generally indicated by petrography.
- d. Presence of Carbonization Accomplished by spraying a solution of phenothelene on the concrete substrate and recording the depth of the solution's color change. This will indicate to what depth carbon dioxide has progressed into the concrete. Carbon dioxide will degrade the cement matrix of the concrete and lower the pH level of it. The layer surrounding the reinforcement is then destroyed, allowing corrosion of the reinforcing steel. Corrosion by carbonization usually occurs over a broad area.
- e. Chloride Ion Content Chlorides from marine atmospheres or mists from road salts entering the concrete substrate, and salts originally introduced to the concrete via admixtures or aggregates can promote accelerated corrosion of reinforcing steel, usually at concentrated or specific locations. The chlorides are not consumed in the corrosion process but rather act as catalysts in the process. The corrosion will progress along the reinforcing bars causing concrete de-bonding, cracking, and spalling.
- f. Reinforcement Placement, Depth, Quantity, and Type This information may be established with the use of a Pachometer or similar electronic metal detector. It is useful in determining required steel replacement and structural capacities during engineering analysis phases.

21.0 Engineering Analysis

Using information obtained from the field, laboratory results, and collected data, a comprehensive engineering analysis may be required. The engineering analysis should include an assessment of field and laboratory data, structural analysis as well as the following:

- ✓ Thermal Analysis
- ✓ Drainage Analysis

<u>- 14 - Exhibit "W"</u>

- √ Vapor Drive Analysis
- ✓ Fire Rating Requirements
- ✓ Cost Estimations

22.0 Deficiencies and Non-Conformance

The Trade Subcontractor shall identify and list any outstanding deficiencies or procedures that were not completed successfully during any final testing. Documented deficiencies shall be submitted to WEBCOR/OBAYASHI within 48 hours of each test completion.

The Trade Subcontractor shall also provide in writing, the corrective action for each deficiency as required within 48 hours. The installing Trade Subcontractor and or vendor shall correct all outstanding issues or deficiencies in the materials or the installation of the materials and provide the commissioning team with dates and times for the required corrections and any re-testing.

23.0 Remedial Work

General considerations for the repair of defects and replacement of components should include the following:

- 23.1 Determine the effect, if any; the repairs have on the structure, surroundings, and operations of the building.
- 23.2 Ensure proper preparation of surfaces to be repaired and provide chemical and mechanical bonds for new materials.
- 23.3 Material selection should include an understanding of performance limitations and should rely on the products past acceptable performance. Material selections should include consideration of the following:
 - ✓ Compatibility
 - ✓ Maintenance
 - ✓ Life cycle

24.0 Project Commissioning Closeout

WEBCOR/OBAYASHI, the Owner, and/or the Owner's representative shall determine when the Trade Subcontractor commissioning process has been satisfactorily completed and when to submit the final report information and all other documentation to Webcor.

As part of the project turnover, the quality of all work will be reviewed to determine whether it is within specific and manufacturers' guidelines, industry standards, and code compliance.

WEBCOR/OBAYASHI, the Owner, and/or the Owner's representative consultant must be completely satisfied that the commissioning procedures have been performed accurately and professionally.

- 15 - Exhibit "W"

In the event the commissioning information or performance requirements outlined in the Waterproofing Quality Commissioning Procedure & Guidelines have not been met, WEBCOR/OBAYASHI may elect to withhold or make appropriate adjustments to the Trade Subcontractor's final billing.

- 16 - Exhibit "W"