

Tr

Construction Update for CAC Meeting June 10, 2014



Period Summary

- There was one recordable safety incident this period. An ironworker doing rebar installation experienced exhaustion. Corrective actions have been implemented.
- The WOJV Team will be hosting a Safety Fest currently scheduled for Friday June 20th on site.
- There have been over 1,050,000 craft hours completed, excluding demolition, through May 31, 2014. An increase of over 20,000 hours since our last construction update.



	2011	2012	2013
Total Craft Hours by Year	203,560	421,488	315,000
Number of Recordable Incidents	3	6	3
Number of Lost Time Incidents	1	0	0
WO Project Annual RIR / National Annual BLS RIR Average	2.95 / 3.10	2.85 / 3.20	1.90 / tbd
WO Project Annual LTIR / National Annual BLS LTIR Average	0.98 / 0.90	0.00 / 1.10	0.00 / tbd

RIR = recordable incident rate, LTIR = lost time incident rate

These rates are calculated as follows: RIR and LTIR = (#of recordable or lost time incidents X 200,000) / actual hours worked

BLS is the Bureau of Labor Statistics, U.S. Department of Labor, it takes the BLS about 16 to 18 months to produce the statistics after year's end. As a result, 2013 statistics are not yet available.

Period Summary

- Wall and column concrete placement continues between the Rail Level and the Lower Concourse in the west and central zones.
- Lower Concourse slab rebar, embedded plumbing and embedded electrical is in progress, in anticipation of concrete placement, in the central and western zones.
- The first Lower Concourse concrete placement is scheduled starting June 7th in the central zone

- Re-Bracing, following wall placement, continues in the western, central and now the eastern zones
- Waterproofing and protection slab work continues in preparation for future mat foundation pours in the eastern zone
- Mat Foundation pour #12 is currently scheduled for June 28th.

Current Project Overview

Transbay Transit Center

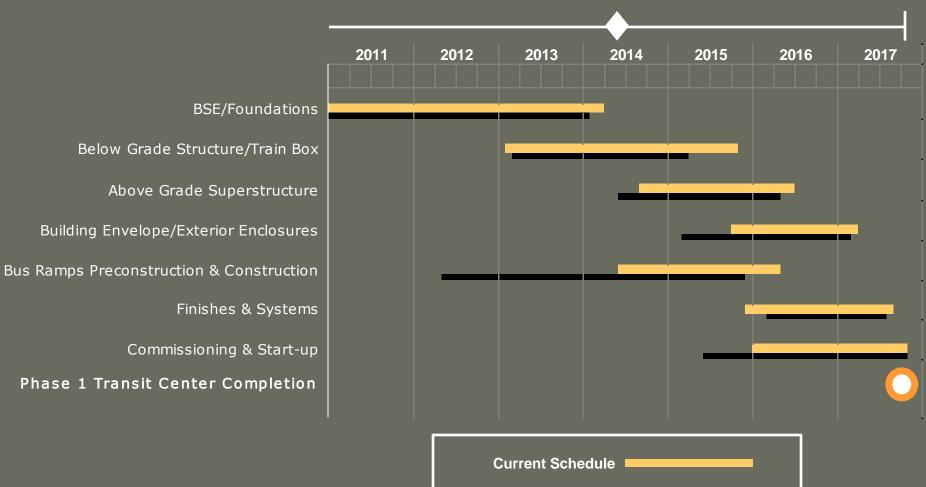
Western Zone – Gridlines 1 to 10

Central Zone – Gridlines 10 to 20

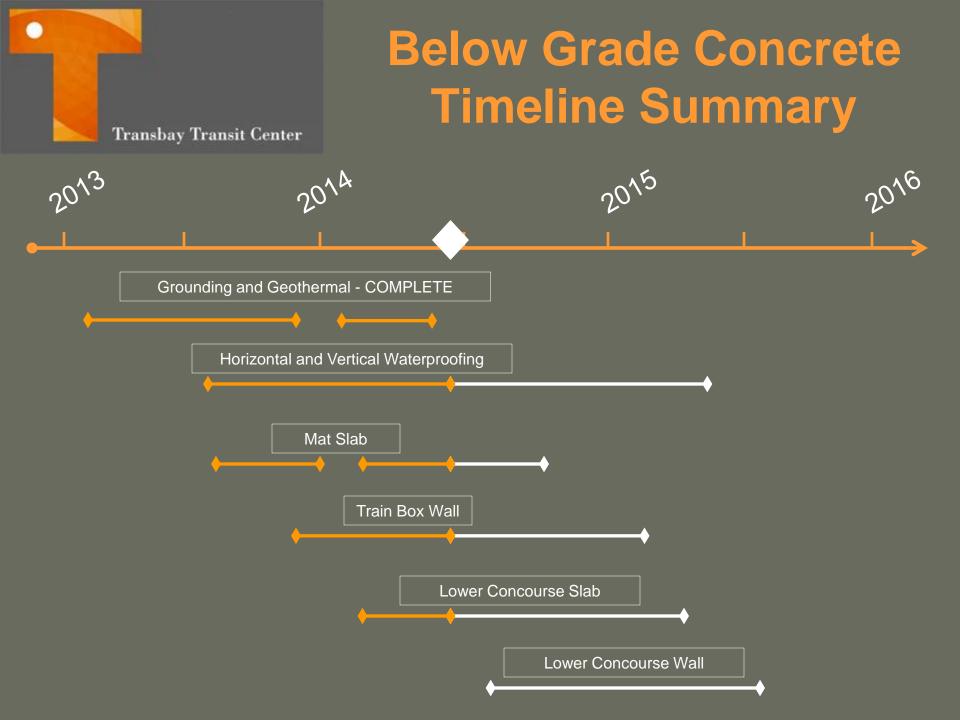
Eastern Zone – Gridlines 20 to 35

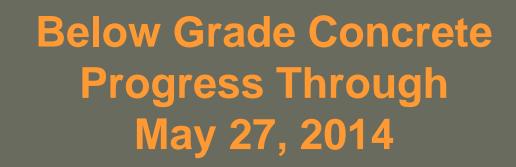
Construction Schedule – Critical Items

Transbay Transit Center



Baseline Schedule





Zone	Total Columns	Columns Complete	Percent Complete	Total 1st Lift Walls	1st Lift Walls Complete	Percent Complete	Total 2nd Lift Walls	2nd Lift Walls Complete	Percent Complete
Western	62	57	92%	35	35	100%	35	8	23%
Central	44	40	91%	20	20	100%	20	18	90%
Eastern	62	0	0%	35	0	0%	35	0	0%



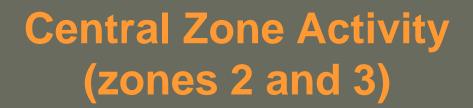




Western Zone Activity (zones 1 and 2)









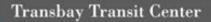


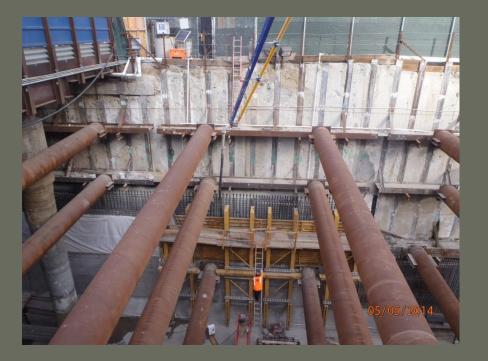






Central Zone Activity (Zones 2 and 3)













Eastern Zone Activity (zones 3 and 4)







- Five (5) mat slabs remain to placed.
- **Current Scheduled Dates:**
- Sec. 12 Saturday June 28
- Sec. 13 Saturday July 26
- Sec. 14 August TBD
- Sec. 15 September TBD
- Sec. 16 September TBD

Train Box Mat Slab Concrete Placement



Structural Steel

Transbay Transit Center

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Structural Steel Fabrication

Steel Fabrication

- Continue cast node fabrication in Louisiana and Kansas.
- Continue cast node shipments to Oregon and Washington.
- Continue fabrication of structural steel in Oregon and Washington.
- Continue fabrication of structural steel in Vallejo, CA.
- Begin fabrication of structural steel in San Bernardino, CA.

Steel Erection : West of First Street

September 2014 – Deliver steel sections and start erection near Shaw Alley.

Steel Erection : First – Fremont

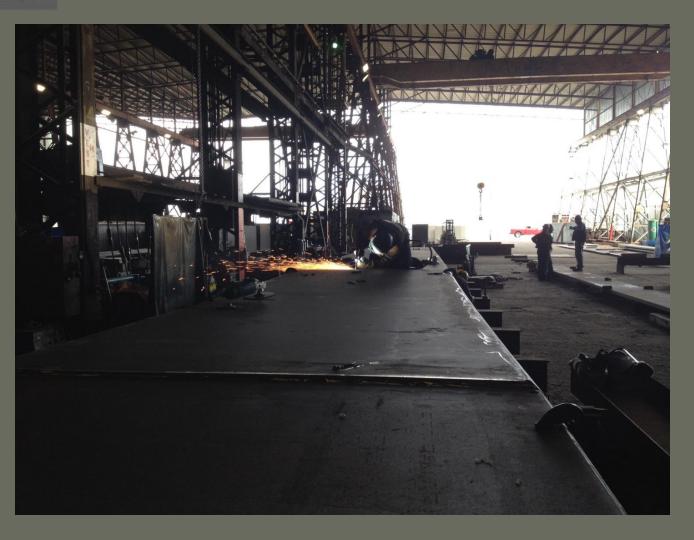
January 2015 – Deliver steel sections and start erection First St. to Fremont.

Steel Erection : Fremont – Beale

October 2015 – Deliver steel sections and start erection Fremont St. to Beale



Work Proceeding at Oregon Iron Works – laying out and cutting plate for built up shapes





Oregon Iron Works – Built up beam in progress

Structural Steel Fabrication

Transbay Transit Center



Oregon Iron Works – Built up beam in progress

Cast Node Fabrication as of May 27, 2014

Transbay Transit Center

Casting Group	Totals	In-Process Pattern Completion	In-Process Casting and Machining	Release 1 Shipments March-May	Release 2 Shipment May-June	Release 3 Shipment August	Release 4 Shipment October	Release 5 Shipment December	Release 6 Shipment December
Ground Level - Atchison 19,600 - 46,300 lbs	35	12	5	8	6	0	0	0	0
Bus Deck - Amite 9,500 - 22,800 Ibs	75	23	13	16	5	0	0	0	4
Roof Level - Atchison 4,400 - 5,400 Ibs	138	2	54	32	32	0	0	0	0
Light Columns	56	26	40	N/A	0	0	0	0	0
Totals	304	63	112	56	43	0	0	0	0

Note: In-Process Casting quantity does not include already shipped nodes.

99 Cast Node Shipped to Date



Cast Node Fabrication

Transbay Transit Center



Type 5 Node ready for shipping



Type 72 Node





Type 6 Node



Utility Relocation - AWSS Installation Update

Transbay Transit Center

AWSS work continues at night at direction of SFMTA/MUNI to accommodate bus traffic. Mission Street repaving completed Second to First and Beale to Main Street.

Mission Street AWSS System

Completed :

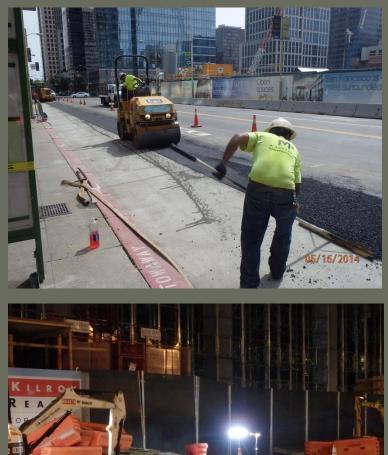
First – Second Street

First – Fremont Street

Main – Beale Street

<u>To Go- In Progress :</u>

Fremont – Beale Street; anticipate completion by end of July.



05/30/2014



Construction The Next 90 Days

- Next 30 Days (June)
 - Continue concrete foundation walls and columns in western and eastern zones.
 - Continue Lower Concourse concrete deck rebar and embedded piping/electrical in the central and western zones.
 - Place first Lower Concourse slab in central zone.
 - Place mat slab 12 in zone 3
 - Complete waterproofing for mat slab pours 13-16.
 - Continue Structural Steel and Cast Node fabrication.
 - Continue AWSS work along Mission Street.

- Next 60-90 Days (July-August)
 - Continue concrete foundation walls and columns of the train box in west, central and east zones.
 - Continue Lower Concourse decks in central zone.
 - Start re-bracing eastern zone
 - Place mat slab 13 and 14 concrete eastern zone.
 - Complete AWSS work along Mission Street.
 - Start Bus Ramp project between Harrison and Howard Street.
 - Continue Structural Steel and Cast Node fabrication.

Questions?

