



# **Construction Update**

September 2016

# Transbay Transit Center





Western Zone Gridlines 1 to 10

Central Zone Gridlines 10 to 20

Eastern Zone Gridlines 20 to 35

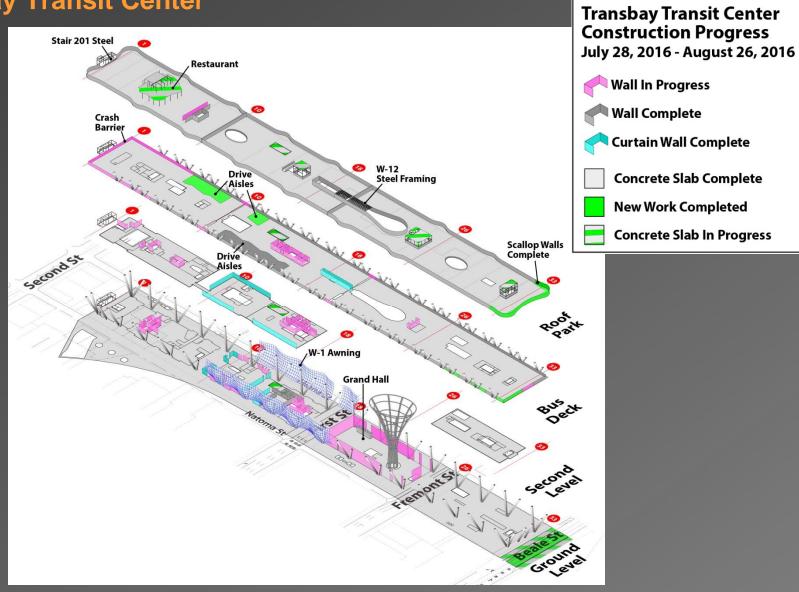


Project Overview

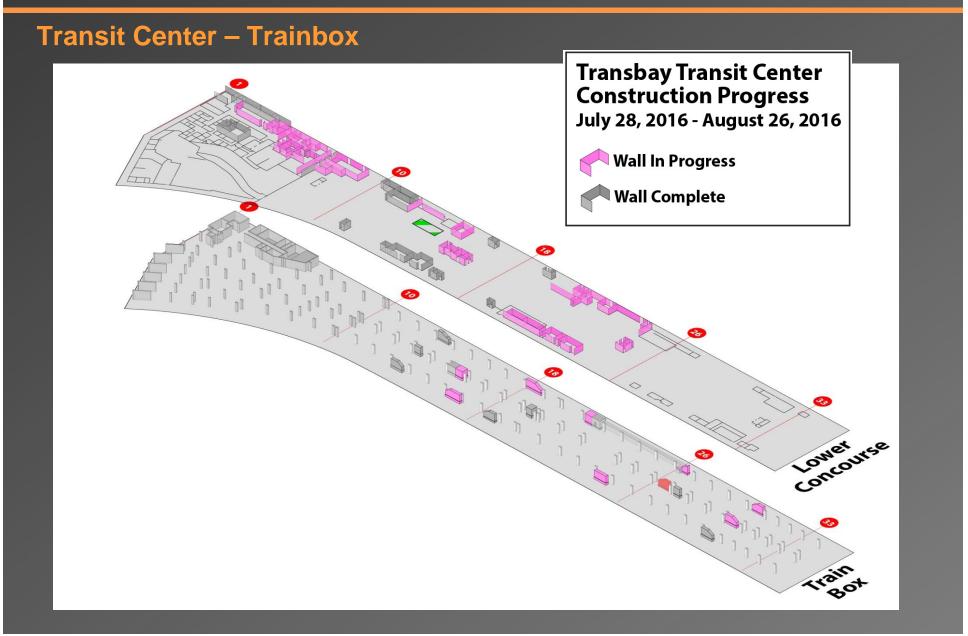
- 1. Recent Activity
- 2. Upcoming Activity
- 3. Safety & Labor Statistics
- 4. Budget Overview
- 5. Contingency Cost
- 6. Schedule
- 7. Challenges



#### **Transbay Transit Center**

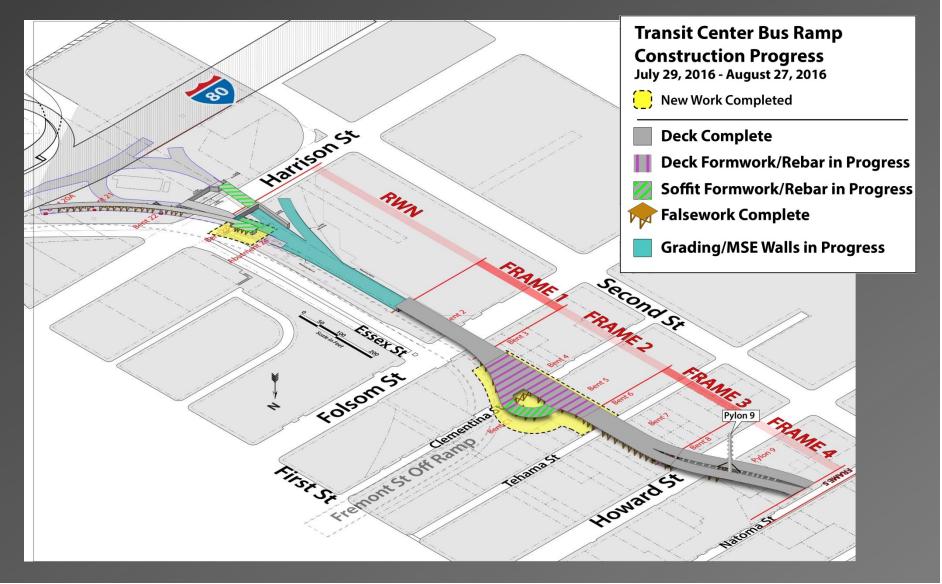








#### **Bus Ramp and Cable Stay Bridge**







W1 Exterior Awning Architect's 2010 rendering above. W1 Exterior Awning installation over First Street August 2016.







### Western Zone (GL 1-10)

- Stair 201 steel structure is now installed with welding in progress.
- Spray applied fireproofing continues and is near completion.
- Glass Curtain Wall continues at Ground Level and Level 2.
- Mechanical/Electrical/Plumbing/Fire Sprinkler (MEPF) hangers and systems installation continues.
- Offsite Electric Manholes and underground utility work (conduit ductbanks) nearing completion.
- On-Site Electrical room concrete and Concrete Masonry Unit (CMU) wall installation in progress.



## Central Zone (GL 10-20)

- Exterior Awning installation is now complete (a few Penrose panels remain) in this zone.
- Bus Deck island and drive aisle waterproofing and concrete placement continues.
- Bus Deck Escalator E407/E408, wall system framing and glazing were installed.
- Grand Hall glass curtain wall system framing and glazing continues.
- Mechanical/Electrical/Plumbing/Fire Sprinkler (MEPF) hangers and systems installation continues.
- Lower level electric room build-out continues.









## Eastern Zone (GL 20-35)

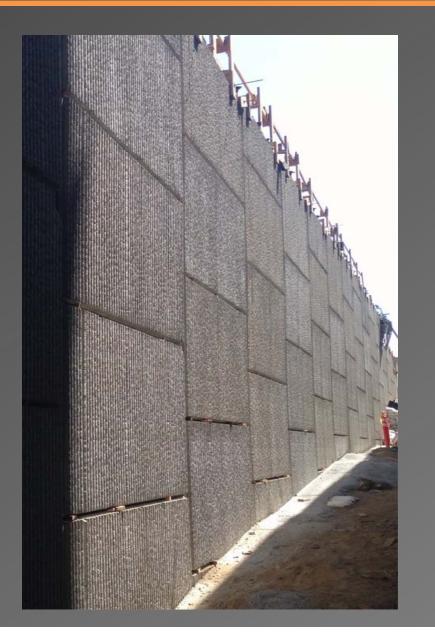
- Rooftop concrete scallop walls and perimeter walls are now complete.
- Rooftop Glass Floor framing over the Grand Hall has started.
- Grand Hall Glass Curtain Wall framing and glazing work continues.
- Bus Deck waterproofing and bus pedestrian island curb concrete placement has started.
- Spray applied fireproofing work completed at Bus Deck level and continues at lower levels.
- Internal Bracing on the Lower Concourse was removed to Beale St.
- Fremont Street Bridge waterproofing is now complete.

# Transbay Transit Center

# **Recent Activity**

## Bus Ramp Bridge

- Viaduct Stem & Soffit concrete placement over Clementina Street completed this period.
- Bus Ramp turnaround formwork completed @ Clementina Street.
- Cable Stay Bridge specialty contractor, VSL, mobilized and cable installation started late August.
- Cable Stay Bridge steel drop-in span to the Transit Center is progressing with offsite fabrication.
- Underground utilities work at Caltrans substation continues.
- Mechanically Stabilized Earth (MSE) walls and retaining wall work continues.





# **Upcoming Activity**



#### Central Zone

- Start Rooftop Waterproofing system installation.
- Continue Bus Deck waterproofing, curb and drive aisle concrete.
- Continue with Electrical Room buildout on the Lower Concourse.
- Continue with MEPF overhead.
- Start removal of the First Street temporary bridge in late September.

#### Eastern Zone

- Complete turnover of rooftop concrete and penthouse decks.
- Continue Bus Deck perimeter crash rail concrete, waterproofing, curb and drive aisle concrete.
- Complete Spray on Fireproofing Level
  2, Ground Level and Lower Concourse.
- Complete the Trainbox concrete underneath Beale Street.

# Transbay Transit Center

# **Upcoming Activity**





## Western Zone

- Complete the Trainbox Lid concrete and waterproofing for western zone.
- Continue electrical room build-out ; floor coating, door frames, grounding.
- Complete spray-applied fireproofing remaining structural steel.
- Complete Stair 201 steel welding.

## Bus Ramp and Bridge

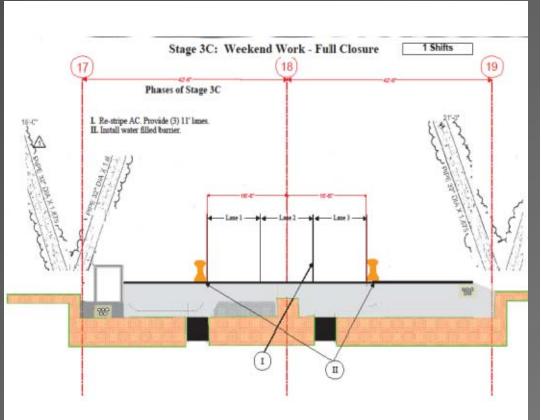
- Continue Cable Stay Bridge cable install.
- Complete steel drop-in span fabrication and coatings.
- Harrison Street "Left Bridge" concrete placement September 8.
- Bus turnaround stem & soffit concrete placement early October.



# **Upcoming Activity**

## First Street Temporary Traffic Bridge Removal

- Three (3) lanes open daily during all operations.
- Salesforce Tower coordinated with truck access provided.
- Majority of work including bridge demolition is scheduled on day shifts.
- First St. lane changes (east) begin in early October and divert traffic for 12-14 weeks.
- First St. lane changes (west) begin in January and divert traffic for 10-12 weeks.





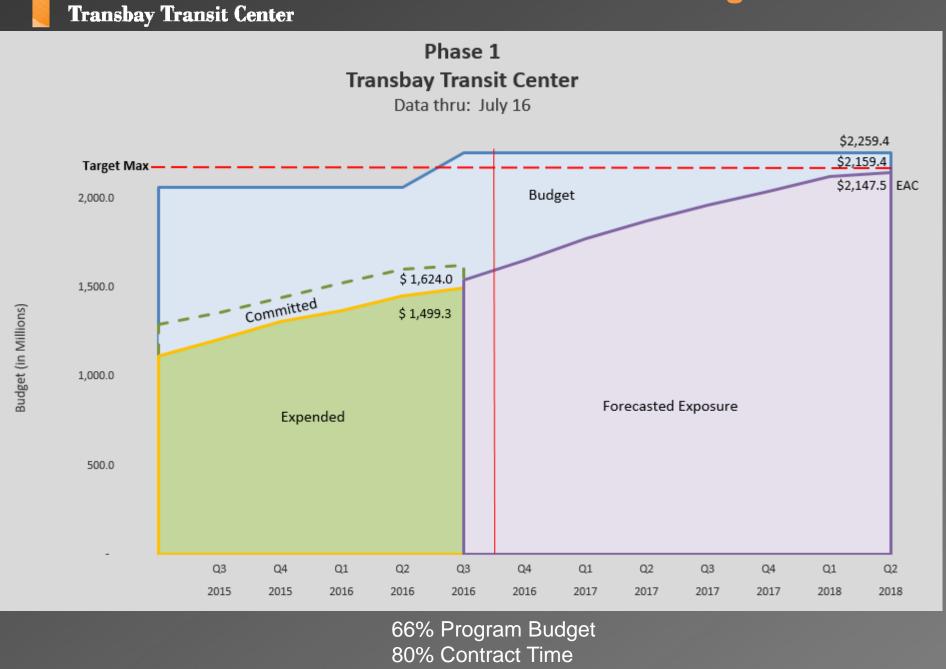
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# **Safety and Labor Statistics**

#### **Recordable & Lost Time Incidents:**

	Recordable Incidents in July / August time period:	2		Lost Time Incidents in July / August time period:		0			
	Total Recordable Incidents in 2016:	8		Total Lost Time Incidents in 2016:		0			
					anual Loct				
	WOJV Average Annual Recordable Incident Rate 2011 Through 2015	4.35		WOJV Average Annual Lost Time Incident Rate 2011 Through 2015:		0.75			
	Nat'l./ State Annual Average Recordable Incident Rate 2011 Through 2015:	3.43		Nat'l./ State Annual Average Lost Time Incident Rate 2011 Through 2015:		1.85			
aft Hours:									
	Total Transit Center Craft Hours through August 2016:		Increase since last update:		Total 2016 Craft Hours:				
	2,536,882		141,004		610,555				

**Budget Overview** 





#### **Contingency Tracking (***\$millions***)**

	Construction Contingency	CM/GC Contingency	Program Reserve	Total Contingency & Reserve
Baseline Budget Amounts	\$61.8	\$32.5	\$116.9	\$211.3
Contingency Usage Through Jul 2016	(\$9.8)	(\$0.2)	(\$0.0)	(\$10.1)
Remaining Baseline Budget Amounts (Jul 2016)	\$52.0	\$32.3	\$116.9	\$201.2
Total Draws/Adds Aug 2016	(\$1.2)	\$0.1	\$0.0	(\$1.0)
Remaining Balances	\$50.8	\$32.4	\$116.9	\$200.2

#### Uses of Contingency this period

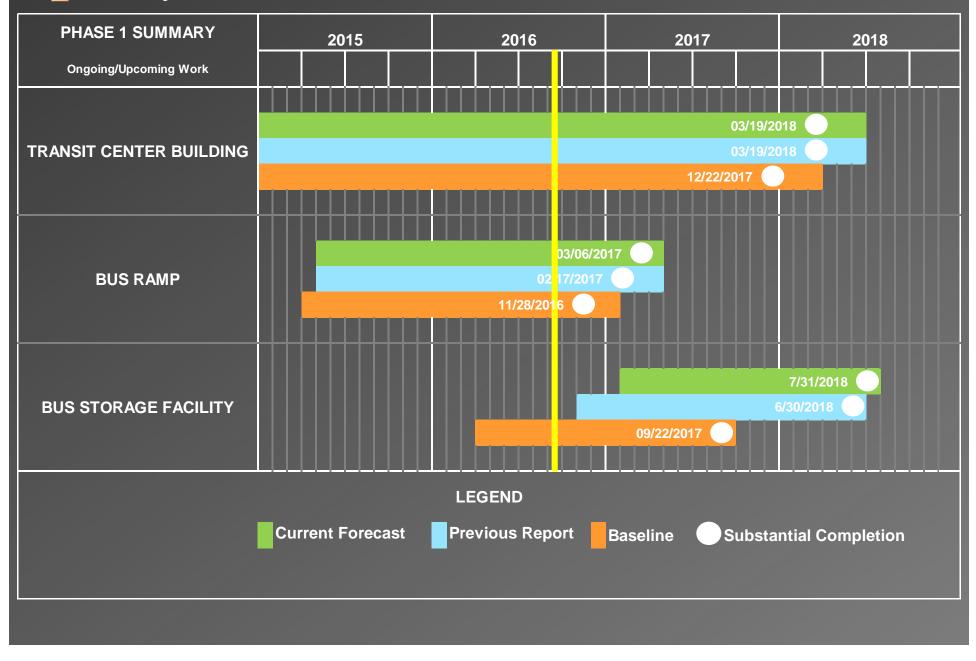
• TG10.4 CCO for SFPUC wire pulling and Equipment setting totals @\$800K, Misc. TG12.1, 7.1,7.2,7.3 changes to Civil / Sitework, and Superstructure totals @ \$300K.

#### **Forecasted Contingency Use through November:**

- CM/GC: \$0.8
- Construction: \$8.7
- Program Reserve: \$0

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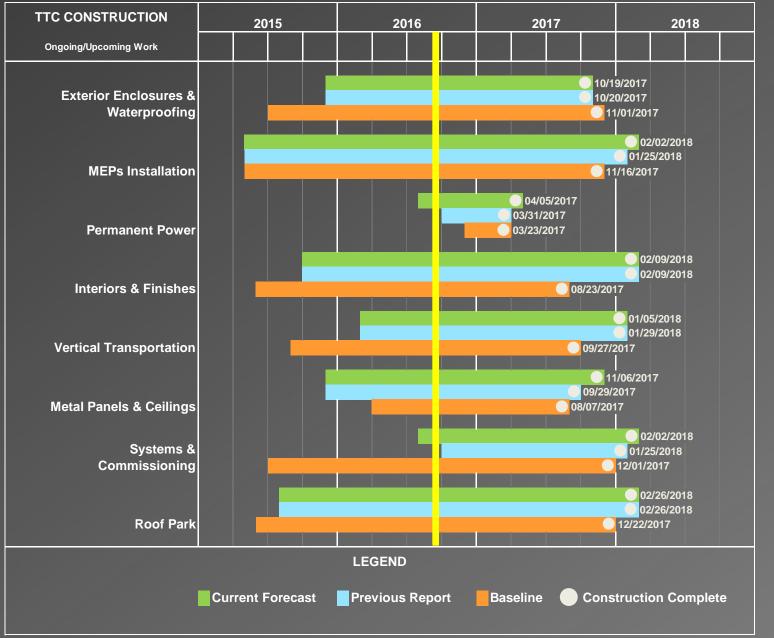
## **Schedule**





#### **Transbay Transit Center**

# Schedule







#### <u>Schedule</u>

Contractor Forecast remains fluid with mix of gains and losses

#### **Mitigation Update**

- 1. Strategic overtime work winding down focus on concrete and window wall systems.
- 2. Additional acceleration opportunities in discussion as we introduce more MEP and Finish Trades on site.
- 3. CM/GC schedule forecast will be incorporated in upcoming Risk Assessment.
- 4. Continue to seek Improvement in CM/GC schedule monthly update content in respect to achieving complete mitigation of lost time.



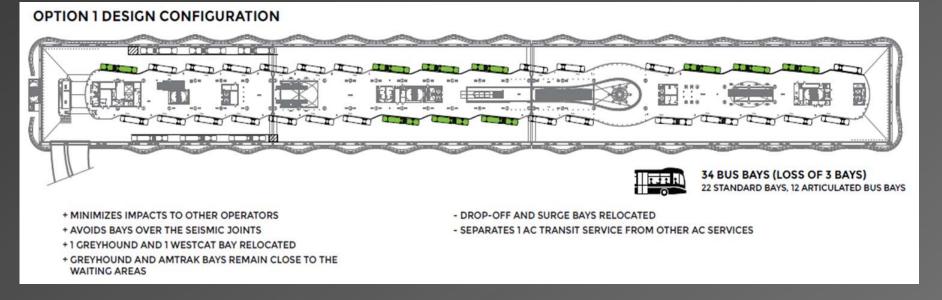
## Buy America

#### **Mitigation Update**

- 1. Resolved significant items :
  - Building Management Control System (BMCS)
  - Fire Management System (FMS)
  - Public Address System (PA)
  - Audio Visual Systems (A/V)
- 2. Received response from WOJV and Fisk on TJPA letters regarding Buy America indicating Fisk will proceed with procurement and installation as they bid and certified.
- 3. Resolution to Listing Issue remains in process with Fisk substitution request still pending.
- 4. Continue to Monitor but issue essentially resolved.



#### Change Management AC Transit Bus Deck Reconfiguration Request



- Further advancement of proposed sub –project requires AC Transit Board and/or TJPA Board to approve and fund approx. \$900,000 to fully implement Option 1.
- Schematic Schedule assumes sub-project approved & funded prior to Jan. 2017.

Concern: No advancement since last Report



## Bid Package 1.5 Procurement

**Procurement of Network Systems** 

Concern:

- 1. Installation of IT Systems critical for Operational Readiness.
- 2. Delayed IT Installation could delay Phase 1 due to converged network design with Building Systems.

#### Mitigation Update:

- 1. TG27.1 & TG27.2 Bids for Network Systems and Public Address System (Audio Visual Equipment) received and advancing.
- 2. Continue to Monitor as Concern but issue essentially resolved.



## **Operational Readiness**

#### Concerns:

- 1. Master Lessee Delayed On-Boarding Impact
  - Building Systems Commissioning
  - Building Systems Testing, Training and Hand Off
- 2. Timely Transit Operator's Transition
  - Route "Sign-On" & Driver Training Schedules
  - Transit Operator's Tenant Improvements, Fixtures, Furniture, & Equipment

#### Mitigation Strategies:

- 1. Master Lessee engagement to later than January 2017
- 2. Transit Operator Transition Teams Formulated
- 3. Bi-weekly Transition Planning Meetings Initiated



# Questions

