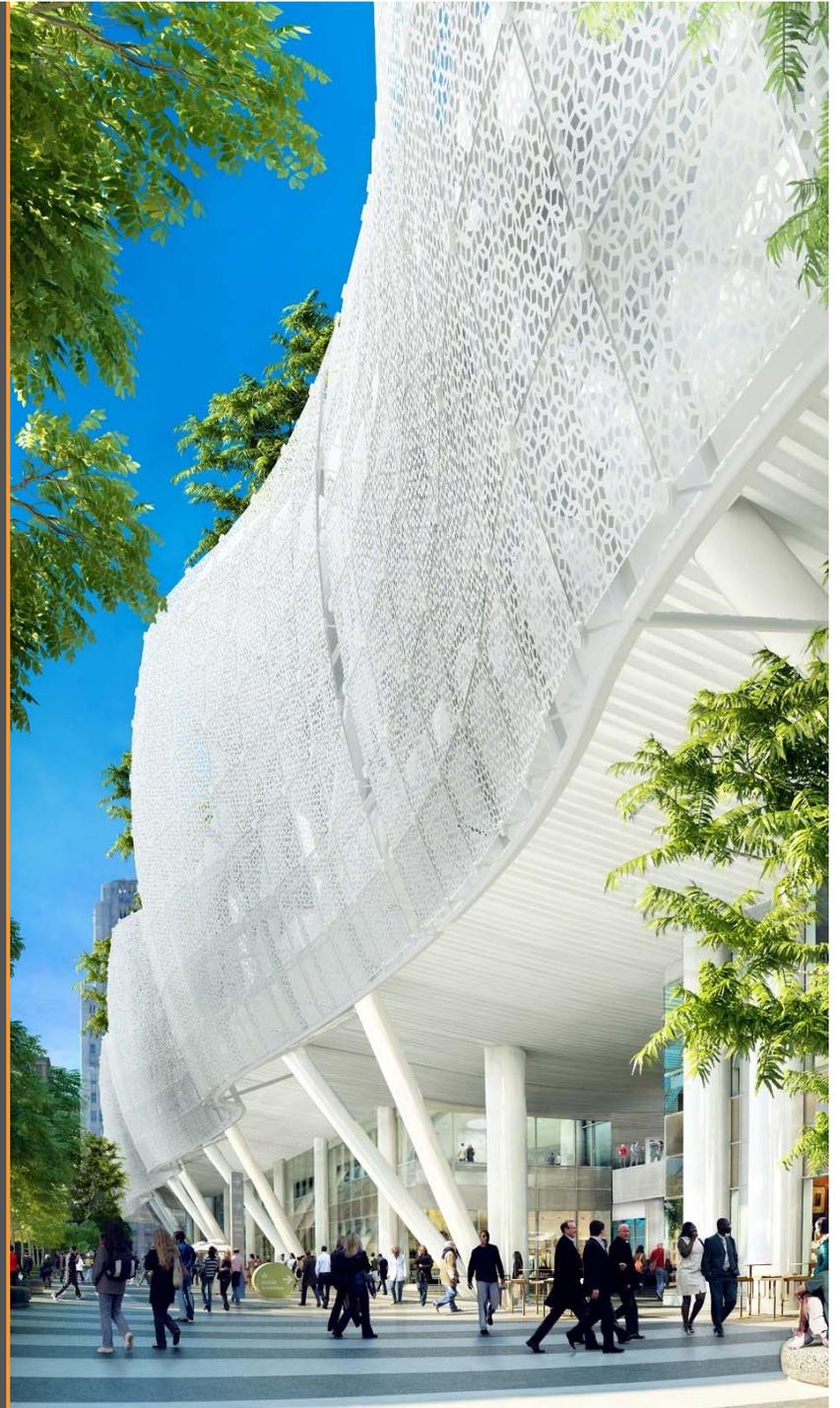


CRC Item No. 5 – April 5, 2018

# Construction Update



# Project Overview

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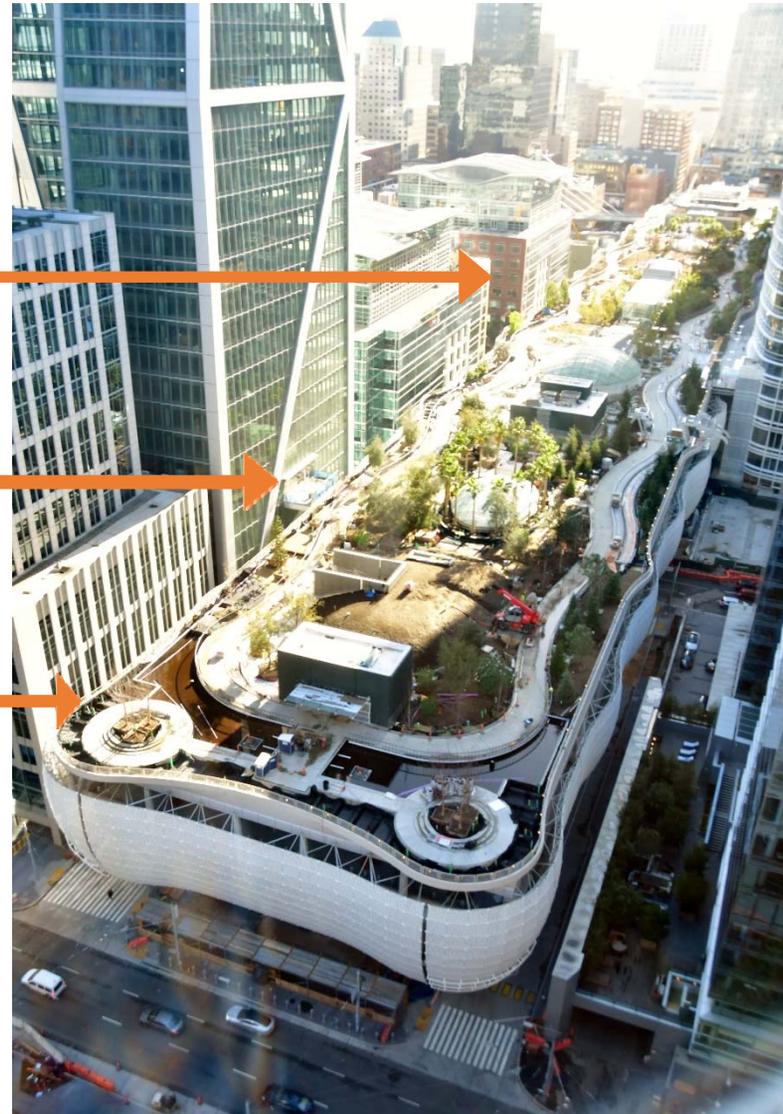
**Western Zone Grid Line 1-10**



**Central Zone Grid Line 10-20**



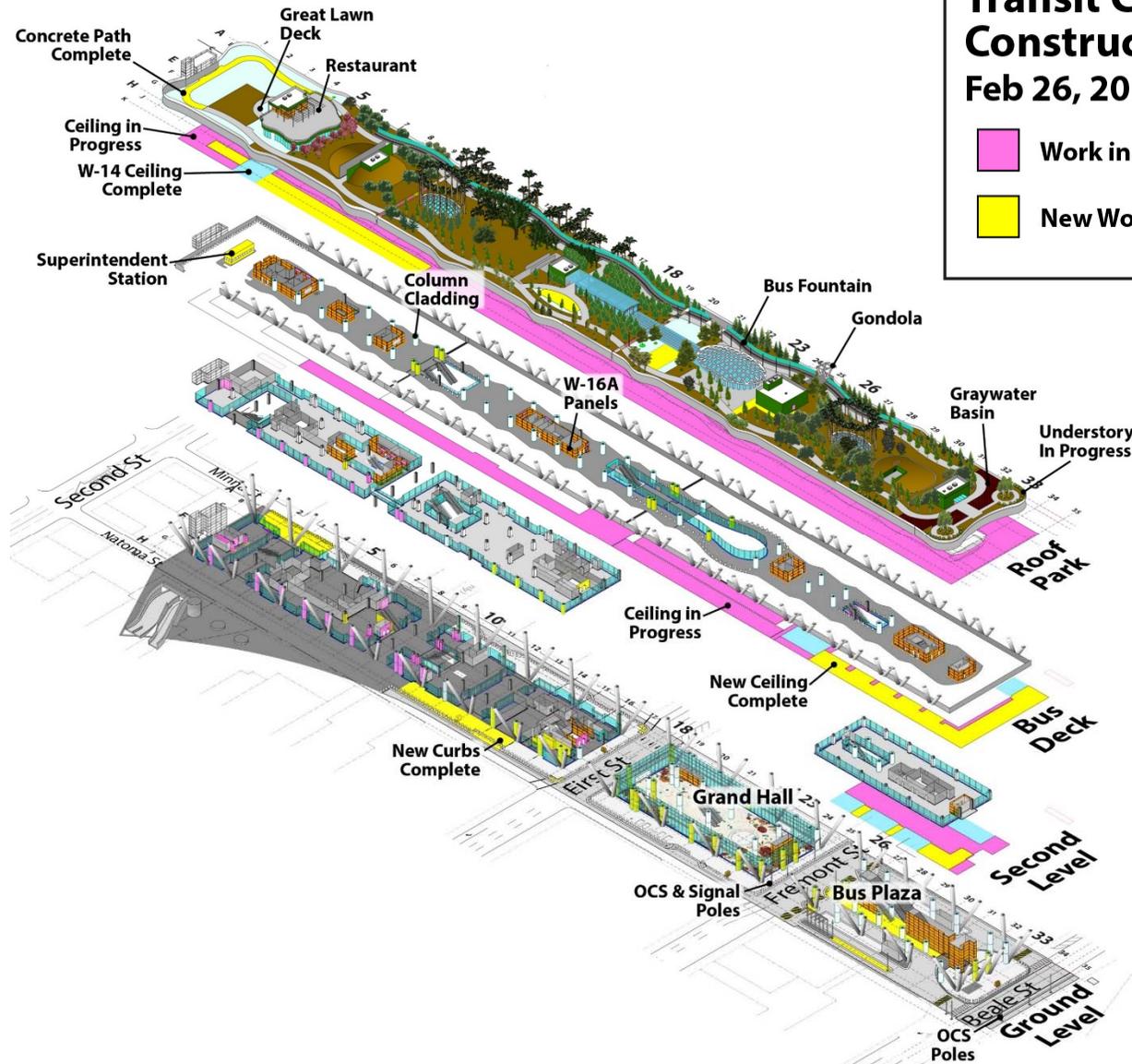
**Eastern Zone Grid Line 20-35**



# Recent Activity

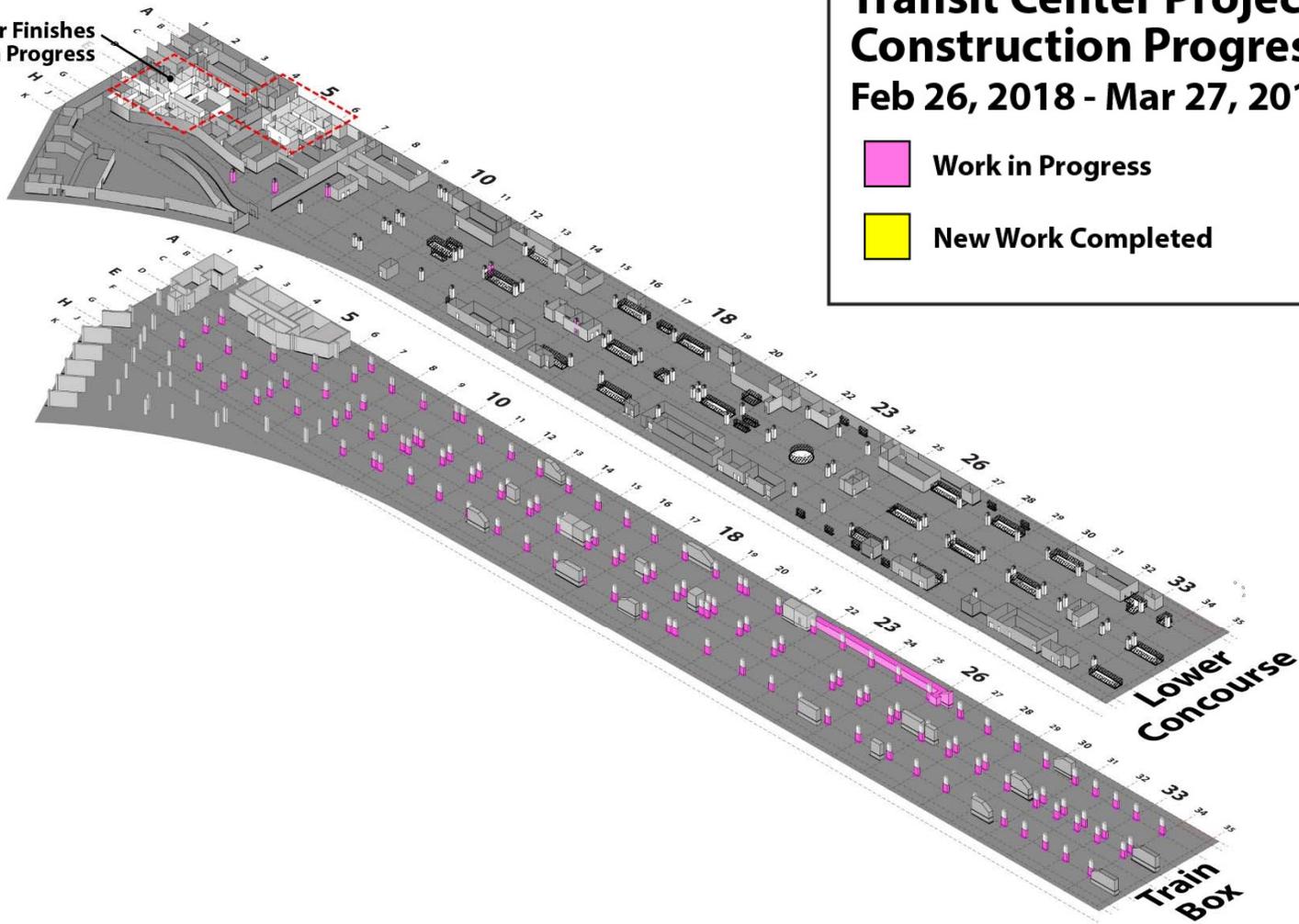
**Transit Center Project  
Construction Progress  
Feb 26, 2018 - Mar 27, 2018**

Work in Progress  
 New Work Completed



# Recent Activity

Interior Finishes  
In Progress



**Transit Center Project  
Construction Progress**  
Feb 26, 2018 - Mar 27, 2018

-  Work in Progress
-  New Work Completed

# Construction Activity

## Transit Center – West End (GL1-20)

- Roof Amphitheatre construction underway.
- Rooftop landscaping small plants progress.
- Escalator canopy glass panels completed.
- Bus Deck Mechanical, Electrical, Plumbing near completion- including hydrotesting.
- Bus Deck column covers now complete.
- Bus Deck ceiling framing and fans in progress at passenger island.
- Bus Deck Metal wall panels now complete.
- Elevators and Escalators underway.
- Ground Level sidewalks and roadway construction of Minna and Natoma.
- Electrical conduits and power cable distribution continues.
- Main Distribution (MDF) and Intermediate Distribution Frame (IDF) Rooms underway.
- Equipment rooms buildout in progress.

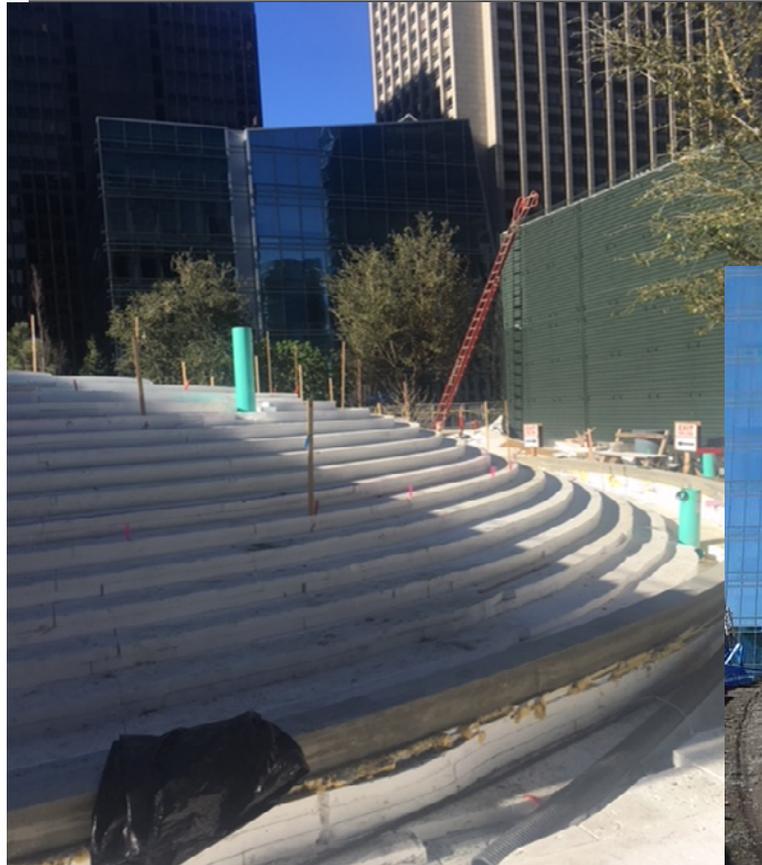
## Transit Center – East End (GL20-35)

- Rooftop landscaping well underway.
- Rooftop wetlands basin ready for planting.
- Elevators and Escalators underway.
- Bus Deck Mechanical, Electrical, Plumbing near completion - including hydrotesting.
- Bus Deck column covers in progress.
- Bus Deck ceiling framing and fans in progress at passenger island.
- Bus Deck Metal wall panels in progress.
- Grand Hall sidewalks and roadway reconstruction of Natoma in progress.
- MUNI Bus Plaza drive aisle and pedestrian islands construction in progress.
- Electrical conduits and power cable distribution continues.
- Main Distribution (MDF) and Intermediate Distribution Frame (IDF) Rooms underway.
- Equipment rooms buildout in progress.

# Rooftop Park –Landscaping



# Rooftop Park –Landscaping



Eastern Zone landscaping mound  
- before and after soils



# Rooftop Park –Landscaping



Rooftop landscaping mound

Bus Jet Fountain progress



# Bus Deck - Drive Aisle ceiling and wall panels installed – Western Zone



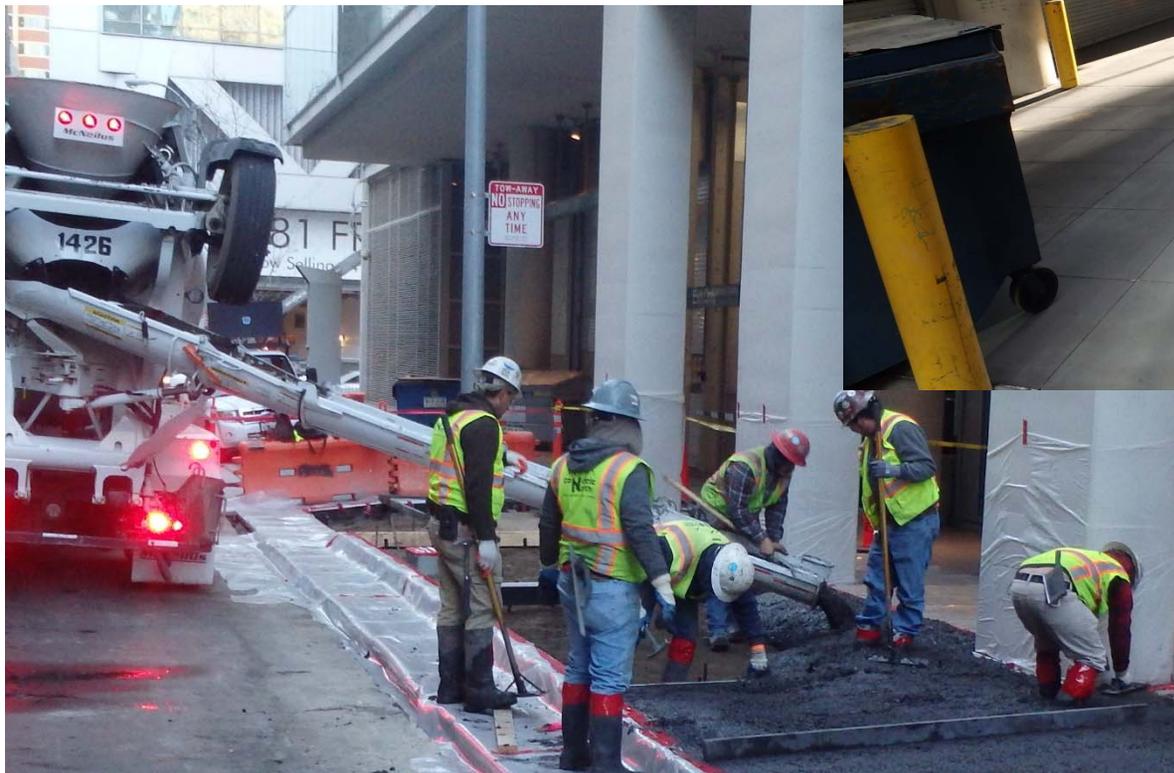
# Bus Deck – Operator testing ongoing



AC Transit Bus Testing – including deployment of ADA ramps.

# Construction progress – Central Zone

Natoma Street sidewalk, curb and gutter replacement- before and after.



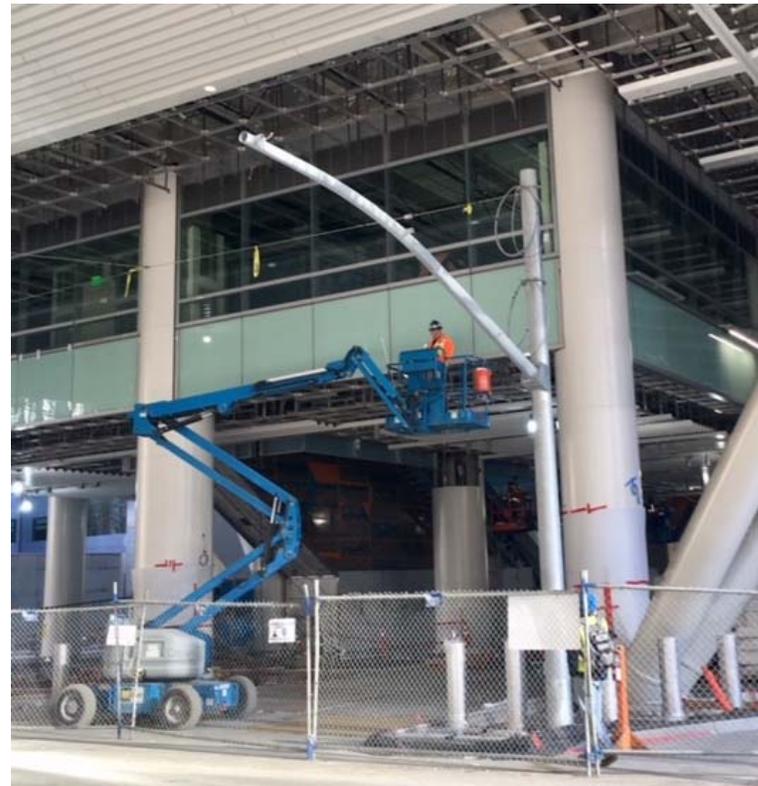
# Overhead progress – Cross Streets

Metal ceiling panel install at Fremont street.



OCS Poles and Traffic Signal Poles:

- Mission Street is complete and rewiring in progress.
- Fremont, First, Beale and Howard Streets are 90% complete.



# Construction progress –Eastern Zone

Muni Bus Plaza – South side progress



Muni Bus Plaza and Fremont Street storm drain connections

# MUNI Bus Plaza – Operation

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*Fulton #5 Operating from the Muni plaza since December 26<sup>th</sup>.*

# System Start-Up and Testing in progress



# Tenant Improvement Construction planning

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Webcor Priority Room turnover to Lincoln Properties:

- Transit Center Mail Room #1380- Ground level.
- Greyhound Package Area Room #1221- Ground level.
- Greyhound [Amtrak] Passenger Waiting Area Room# 02220 – Level 2.
- Greyhound Passenger Service Room #3228 – Bus Deck level.
- Office Space - TJPA Offices Room # 02620- Level 2.

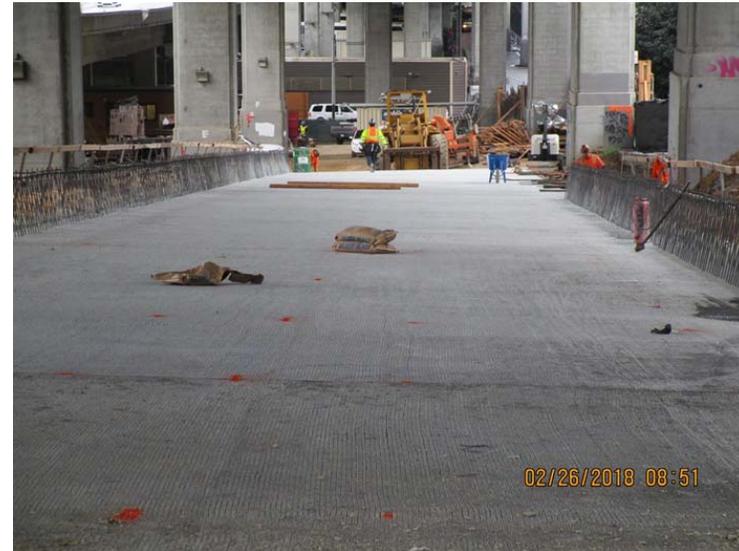
Lincoln Properties Room Buildout – Design Build:

- Architect is coordinating with Contractors for Design Build of HVAC and room buildout. MEP and architectural drawings to come.
- Room Turnover Work completion list and Punchlist coordination between Turner SPD and Webcor-Obayashi and Architects in progress.
- Outreach to SF Building Trades Council per PLA Project Labor Agreement completed.

# Bus Storage Facility

## Construction Progress

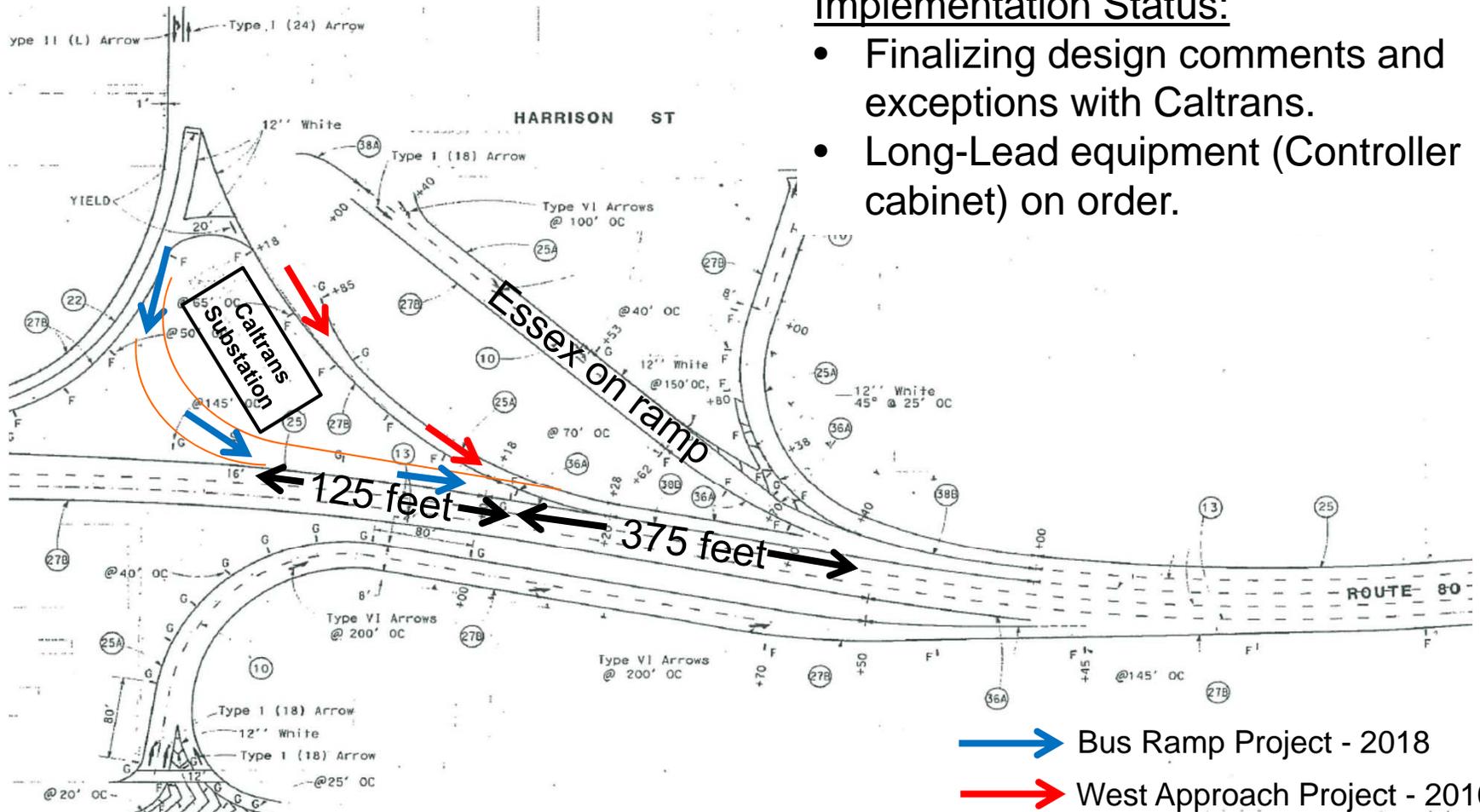
- Sound wall (noise attenuation) construction continues.
- Retaining Wall Rebar & concrete ongoing – 90% complete.
- MSE Mechanically Stabilized Earth walls in progress.
- Modular AC Transit Administration Building is under fabrication.



# Bus On-Ramp Merge

## Implementation Status:

- Finalizing design comments and exceptions with Caltrans.
- Long-Lead equipment (Controller cabinet) on order.



# Safety and Labor Statistics

## Recordable & Lost Time Incidents:

<b>WOJV Recordable Incidents this period February 2018:</b>	<b>0</b>	<b>WOJV Lost Time Incidents this period February 2018:</b>	<b>0</b>
Total Recordable Incidents -Year 2018	0	Total Lost Time Incidents - Year 2018	0

<b>WOJV Average Annual Recordable Incident Rate 2011 Through 2016</b>	<b>2.99</b>	<b>WOJV Average Annual Lost Time Incident Rate 2011 Through 2016:</b>	<b>0.33</b>
Nat'l/ State Annual Average Recordable Incident Rate- Public Works 2011 Through 2016:	2.90	Nat'l/ State Annual Average Lost Time Incident Rate 2011 Through 2016:	1.36

## Craft Hours:

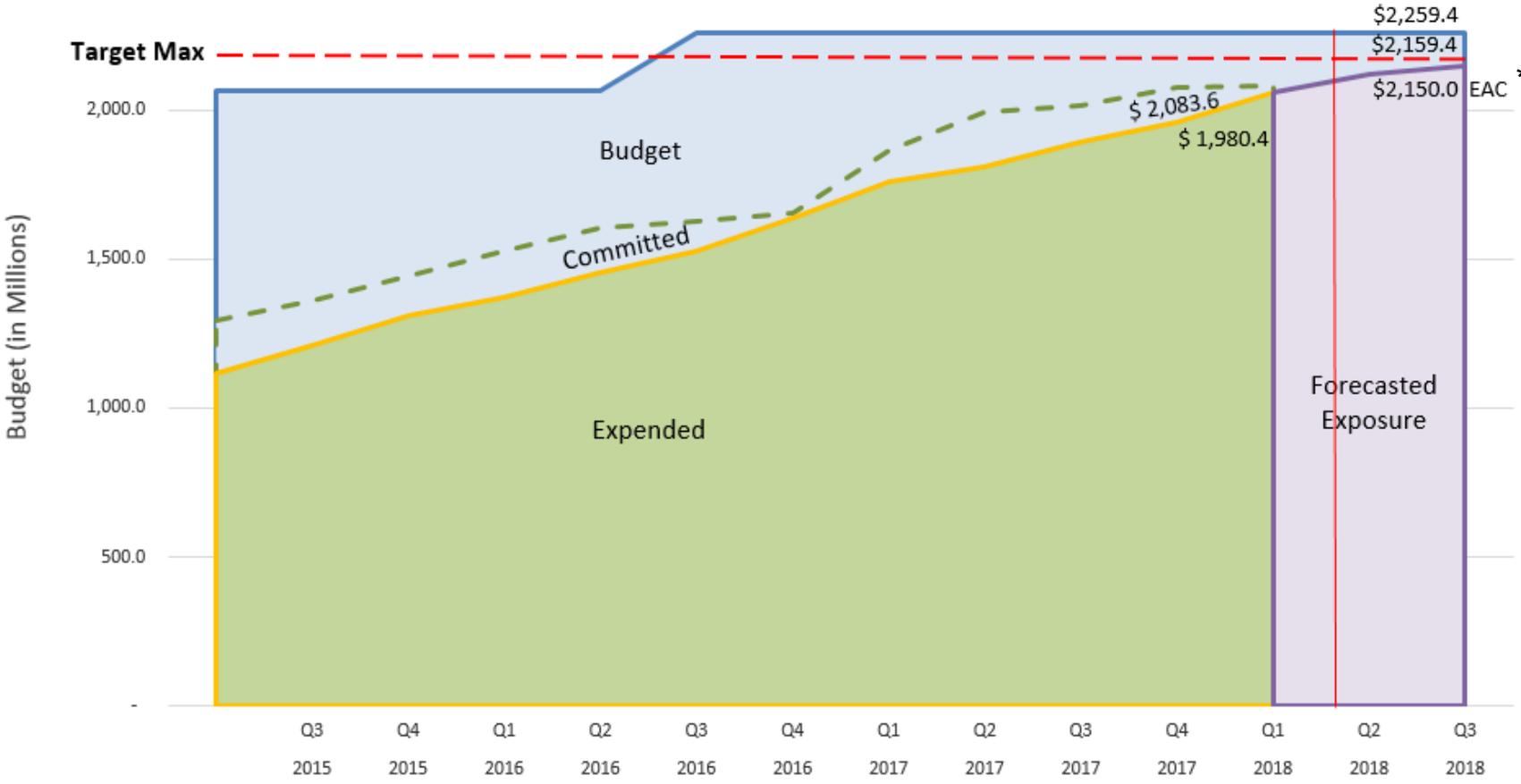
<b>Total Transit Center Craft Hours 2011 - YTD 2018 :</b>	<b>Total Craft Hours February 2018:</b>	<b>Total Transit Center Craft Hours YTD 2018 :</b>
<b>4,747,947</b>	<b>164,145</b>	<b>265,637</b>

Update Forthcoming – Risk Assessment in Progress

# Budget

## Phase 1 - Transbay Program

Data thru: January '18



88% Program Budget  
101% Contract Time

\* Note: The EAC does not include the use of program reserve for tenant improvements or legal costs related to 301 Mission St.



# Contingency Cost

## Contingency Tracking (\$millions)

	Construction Contingency	CM/GC Contingency	Program Reserve	Total Contingency & Reserve
<b>Baseline Budget Amounts</b>	<b>\$61.8</b>	<b>\$32.5</b>	<b>\$117.0</b>	<b>\$211.3</b>
<b>Contingency Usage Through Feb 2018</b>	(\$45.6)	(\$5.5)	(\$26.2)	(\$77.3)
<b>Remaining Baseline Budget Amounts (at Feb 2018)</b>	<b>\$16.2</b>	<b>\$27.0</b>	<b>\$90.8</b>	<b>\$134.0</b>
<b>Total Draws/Adds March 2018</b>	(\$2.0)	(\$5.8)	(\$0.0)	(\$7.8)
<b>Remaining Balances</b>	<b>\$14.2</b>	<b>\$21.2</b>	<b>\$90.8*</b>	<b>\$126.2</b>

### Uses of Contingency this period

Additional costs for temporary facilities, OCS fiberglass support system, Beale Street traction power, consolidation of Skanska costs, civil scope transfer from TG12.1 to TG07.6, added protection at grand hall due to schedule recovery and additional import/export for bus ramp structural backfill.

### Forecasted Contingency Use

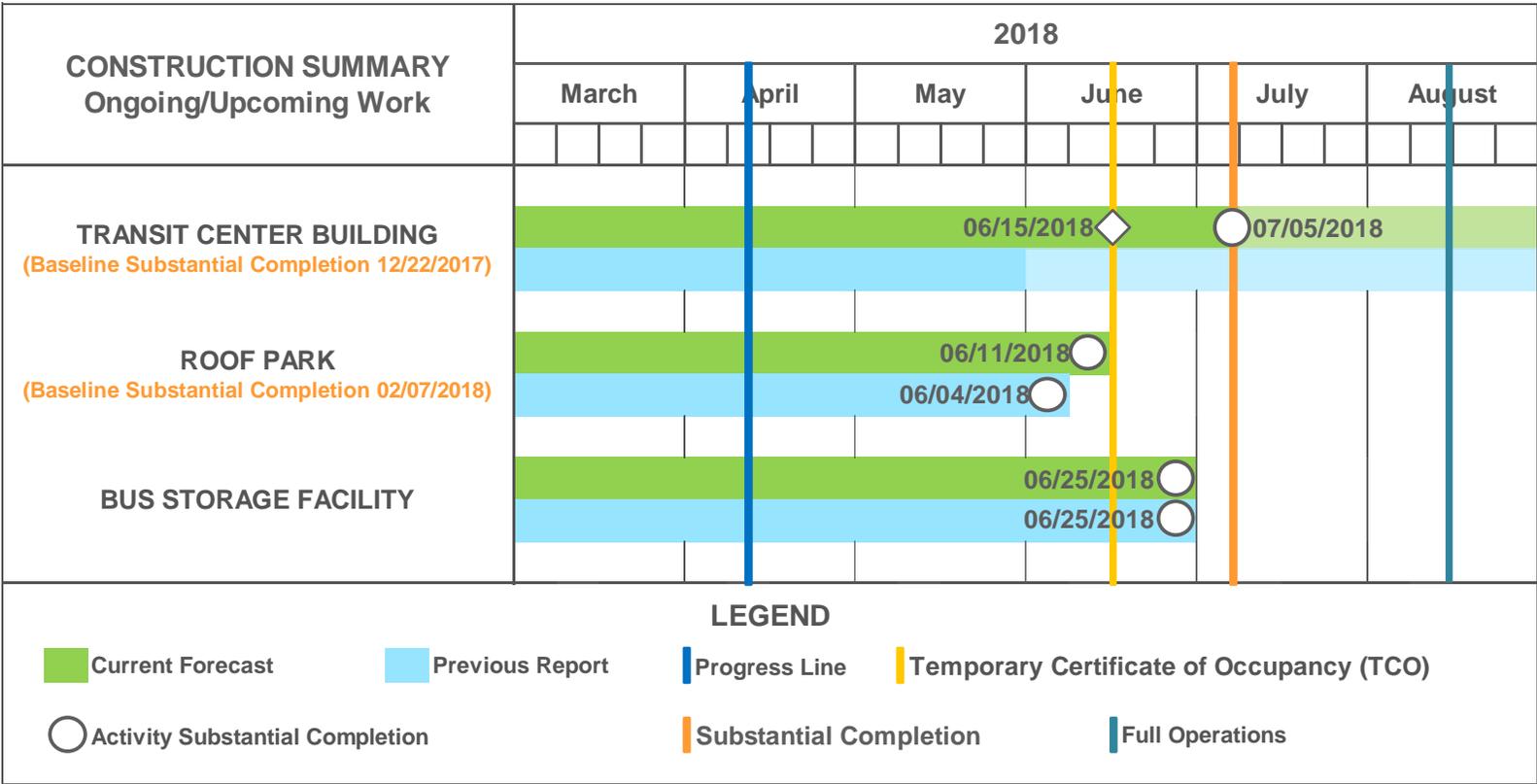
CM/GC: \$0.3M

Construction: \$2.5M

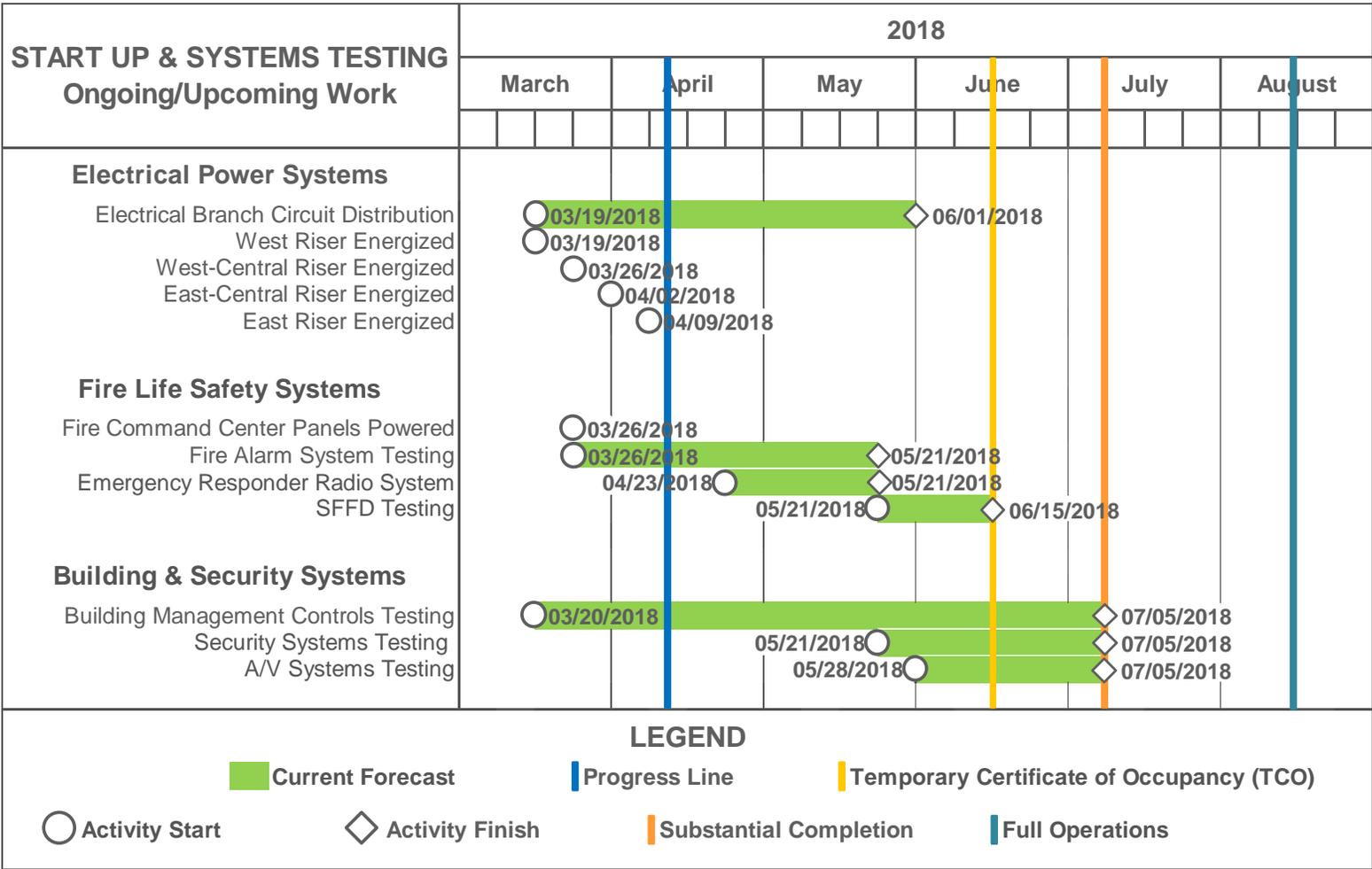
Program Reserve: \$0.0

\*Note: Program Reserve balance of \$90.8 million assumed to include contingencies earmarked for tenant improvements and legal costs related to 301 Mission St.

# Schedule

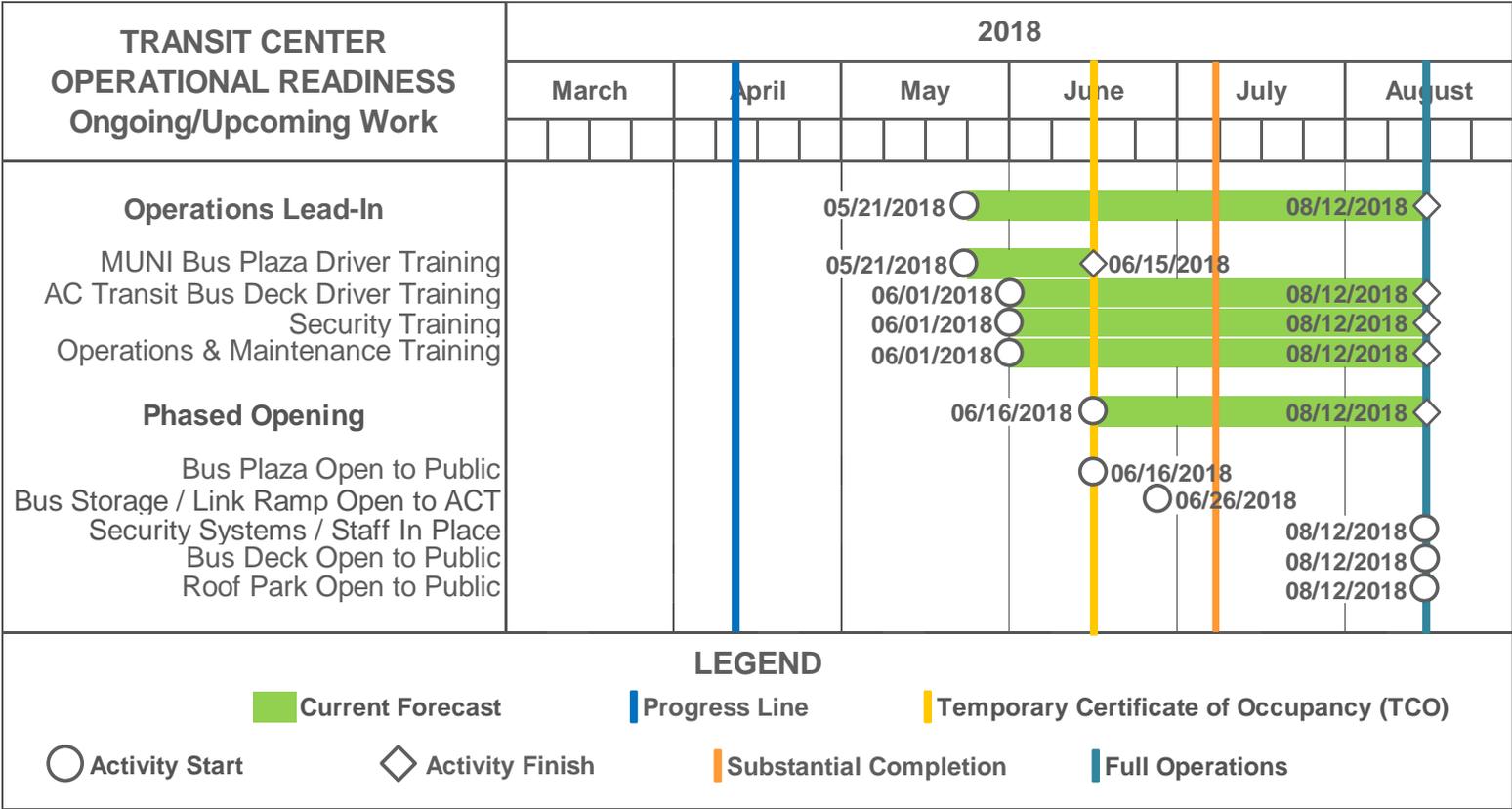


# Schedule



TIME BETWEEN TCO & SUBSTANTIAL COMPLETION IS INSPECTIONS/CORRECTIONS.

# Schedule



TIME BETWEEN TCO & SUBSTANTIAL COMPLETION IS INSPECTIONS/CORRECTIONS.

# Schedule Risk

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## Recent Mitigation Measures

Due to the Continued Failure to meet Electrical Milestones:

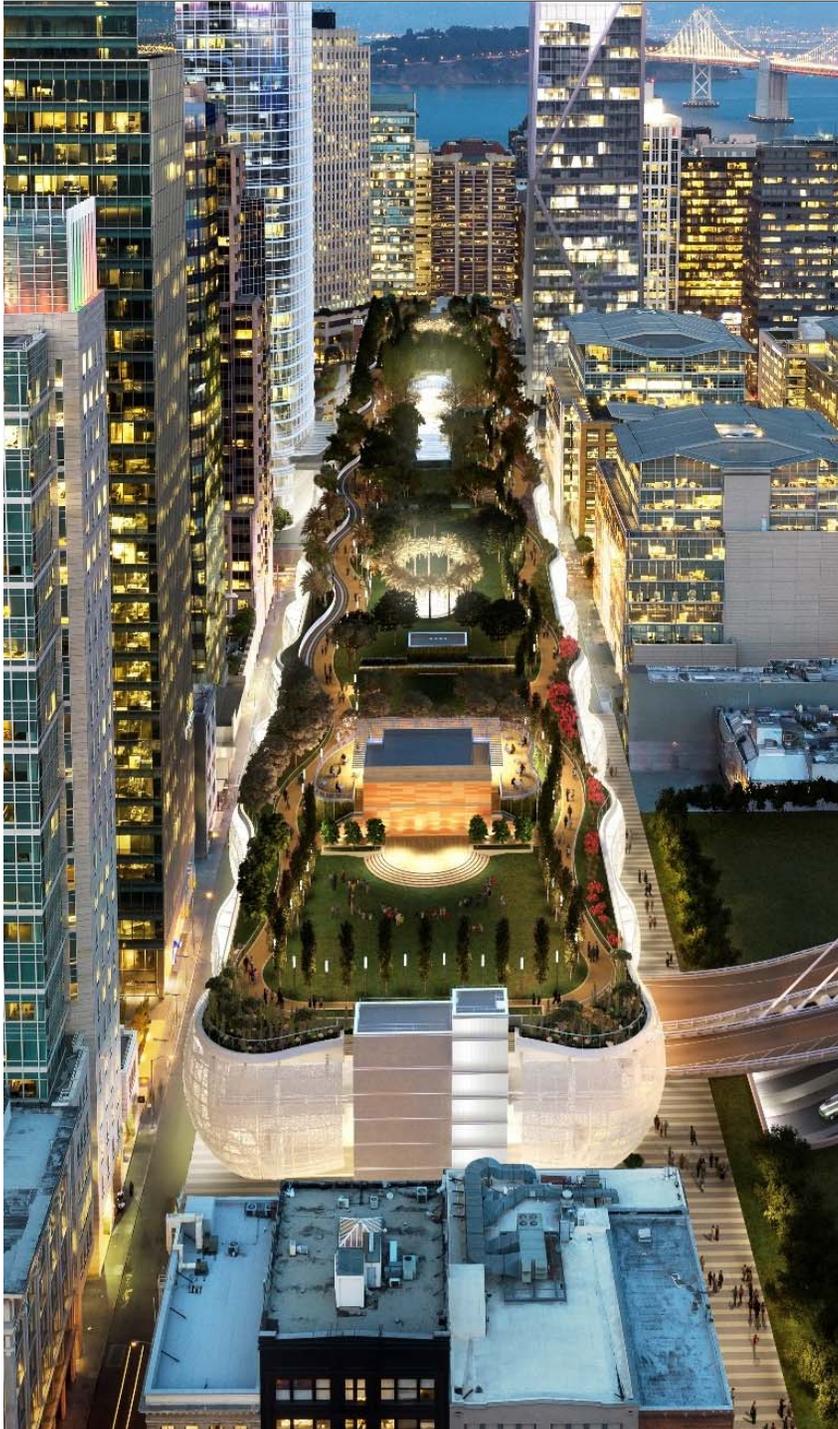
- 30 Additional Rosendin Electric Electricians mobilized for State of Completion Assessment and increased management over Fisk.
- WPCS enlisted to provide for overall management over RSC and knowledgeable management of these systems installation.
- WOJV needs to develop a revised strategy for achieving a reliable and achievable schedule that will afford TJPA to advance Operational Planning with certainty.

# Schedule Risk

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## WOJV to provide Electrical & Systems Schedule Refresh Strategy towards:

- Developing an Accurate State of Completion Assessment.
  - Rosendin Electric Field Validation of Fisk As-Built Drawings.
  - WPCS Evaluation of Status of Systems Installation.
- Establishing a Finalized Schedule Informed by Field Assessment with Subcontractor Buy-in.
- Submit Revised Schedule and Presentation to achieve Date Certain Substantial Completion Date and a Reliable Basis for Planning of TJPA Operations.



# Questions?

**TJPA**  
TRANSBAY JOINT POWERS AUTHORITY

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