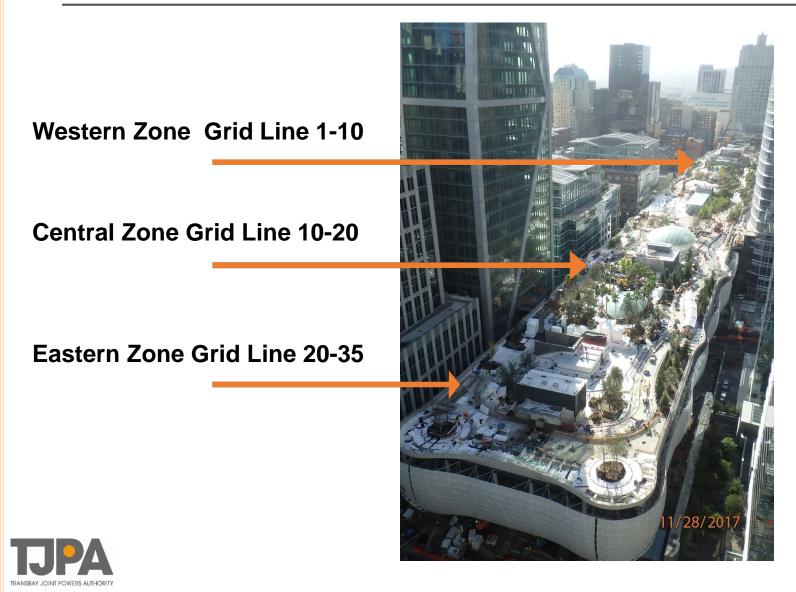
### **Construction Update**

### December 2017

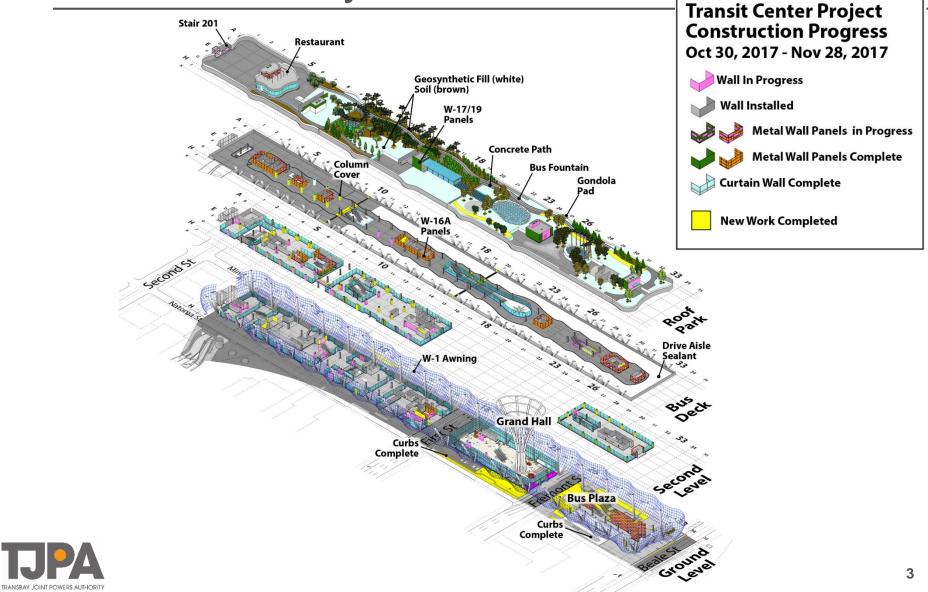




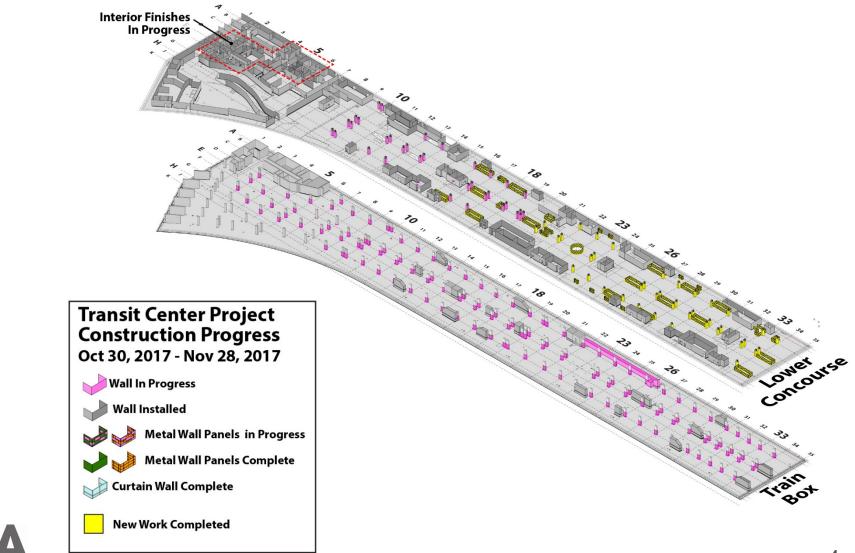
### **Project Overview**



### **Recent Activity**







TRANSBAY JOINT POWERS AUTHORIT

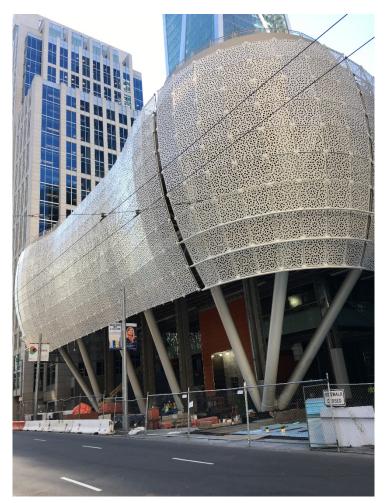
### **Construction Activity**

Transit Center – West End (GL1-20)	Transit Center – East End (GL20-35)
-Rooftop Restaurant shell continues.	-Rooftop Gondola now under construction.
-Rooftop landscaping well underway.	-Rooftop landscaping well underway.
-Rooftop granite pathway pavers underway.	-Rooftop granite pathway pavers underway.
-Bus Deck Mechanical, Electrical, Plumbing	-Bus Deck Mechanical, Electrical, Plumbing
underway including hydrotesting.	underway including hydrotesting.
-Bus Deck ceiling drip panels underway.	-Bus Deck ceiling drip panels underway.
-Bus Deck column covers in progress.	-Bus Deck column covers in progress.
-Bus Deck drive aisle coating underway.	-Elevator and Escalators underway.
-Elevators and Escalators underway.	-Grand Hall -Terrazzo 100% complete.
-Ground Level sidewalks and roadways	-MUNI Bus Plaza drive aisle and pedestrian
construction – Minna and Natoma.	islands construction in progress.
- Electrical power cable distribution	-Electrical power cable distribution
continues. Electrical conduits continue.	continues. Electrical conduits continue.
-Main Distribution (MDF) and Intermediate	-Main Distribution (MDF) and Intermediate
Distribution Frame (IDF) Rooms underway.	Distribution Frame (IDF) Rooms underway.
-Equipment rooms buildout in progress.	-Equipment rooms buildout in progress.
-Walls gypsum board and painting and	-Walls gypsum board and painting and
Metal wall panels underway.	Metal wall panels underway.



#### Awning – Architect/Artist Vision versus Construction progress to date





November 27, 2017

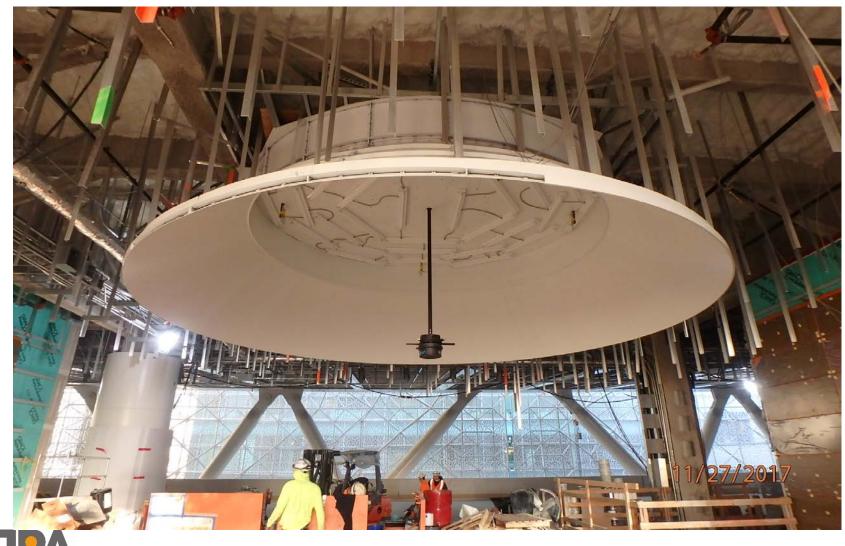


# Bus Deck Level – Bus Drive Aisle and ceilings

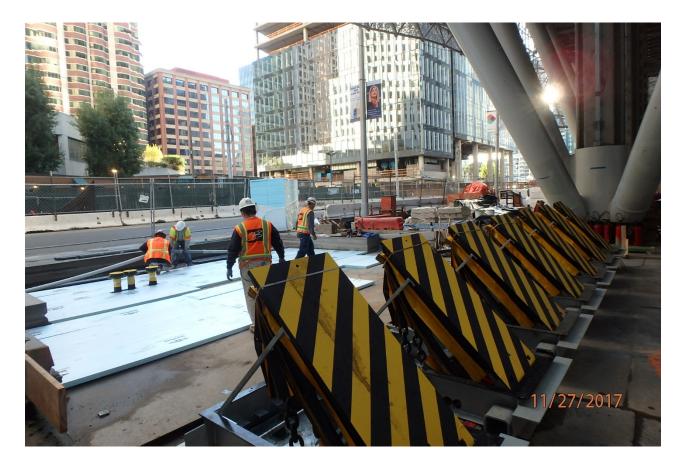




### Bus Deck - Ceiling Fan and Backlighting



### MUNI Bus Plaza – Buildout

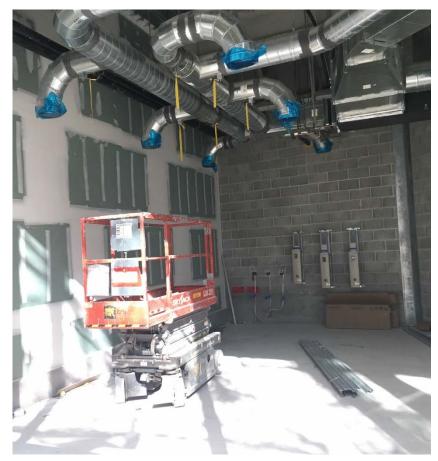


Wedge Barrier Installation at Beale Street



### **Room Readiness**

Mail Room 1380 being readied for turnover.

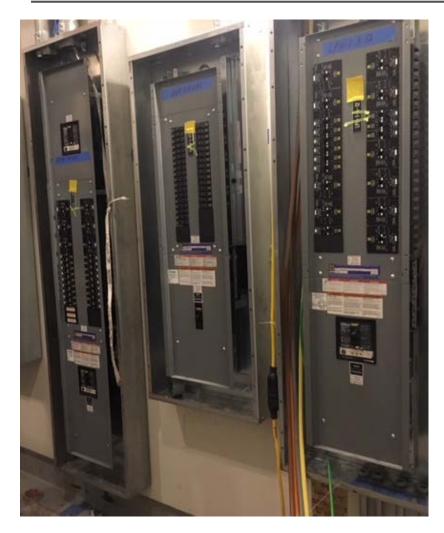


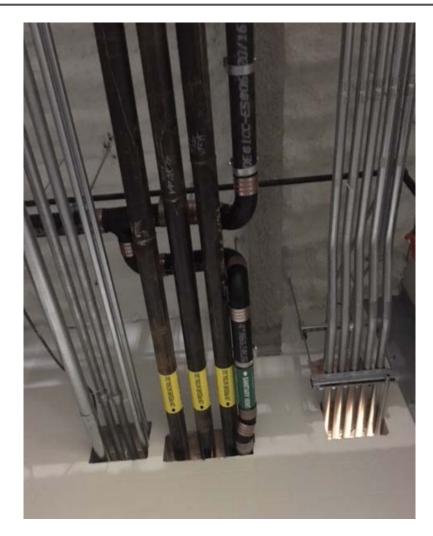
#### Greyhound Package Area Room 1221 Equipment Delivered.





### **Utility Construction progress**





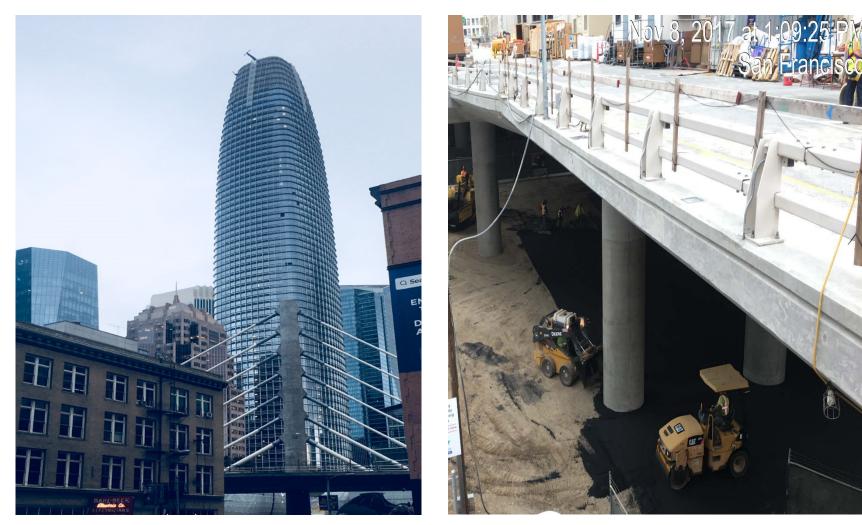


# Rooftop Park Gondola - Drive Assembly saddles and Rooftop tension frame





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

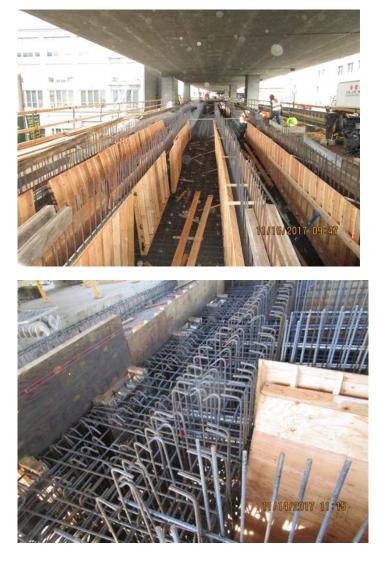




# **Bus Storage Facility**

#### **Construction Progress**

- Excavation/grading ongoing.
- Underground Utilities in progress.
- Retaining Wall Rebar & concrete pours ongoing.
- Bridge Box Girder Stem & Soffit construction in progress.
- Upcoming Stem & Soffit pour on 12/4/17; deck pour on 12/21/17.
- 2<sup>nd</sup> street and I-80 Eastbound lanes closed for nighttime pours.





### Safety and Labor Statistics

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

Recordable Incidents this period November 2017:		Lost Time Incidents this period November 2017:	0
Total Recordable Incidents –Year 2017:	11	Total Lost Time Incidents - Year 2017:	3

WOJV Average Annual Recordable Incident Rate 2011 Through 2016	2.99	WOJV Average Annual Lost Time Incident Rate 2011 Through 2016:	0.33
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:**

Total Transit Center Craft Hours 2011 - YTD 2017 :		Total Transit Center Craft Hours YTD 2017 :
4,329,369	120,687	1,483,454



# **Contingency Cost**

#### 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 Oct 2017	(\$31.6)	(\$4.0)	\$1.1	(\$34.5)
Remaining Baseline Budget Amounts (Oct 2017)	\$30.2	\$28.5	\$118.0	\$176.7
Total Draws/Adds November 2017	(\$8.4)	(\$0.1)	(\$0.0)	(\$8.5)
Remaining Balances	\$21.8	\$28.4	\$118.0	\$168.2

#### Uses of Contingency this period

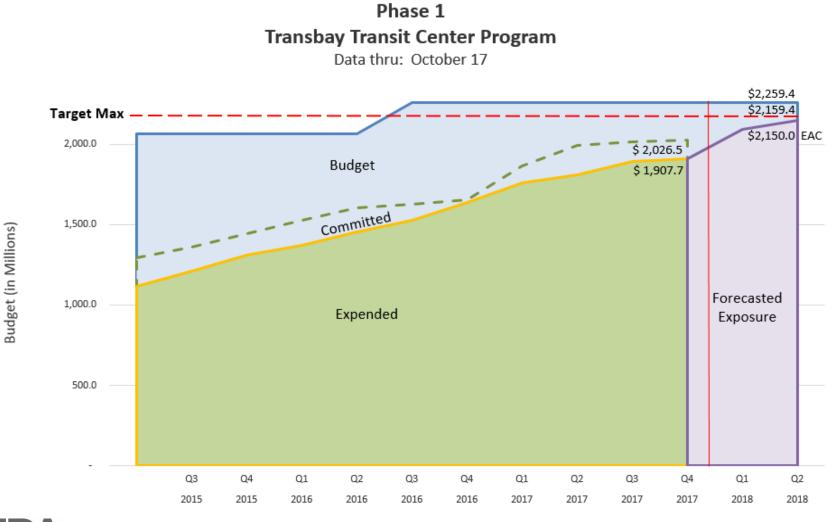
Structural Steel revisions due to W Systems, Temporary Facilities additional scope, Plumbing Vent changes, ASI 141 added scope to Metal Panels.

#### **Forecasted Contingency Use**

CM/GC: \$0.4 Construction: \$0.5 Program Reserve: \$25.0

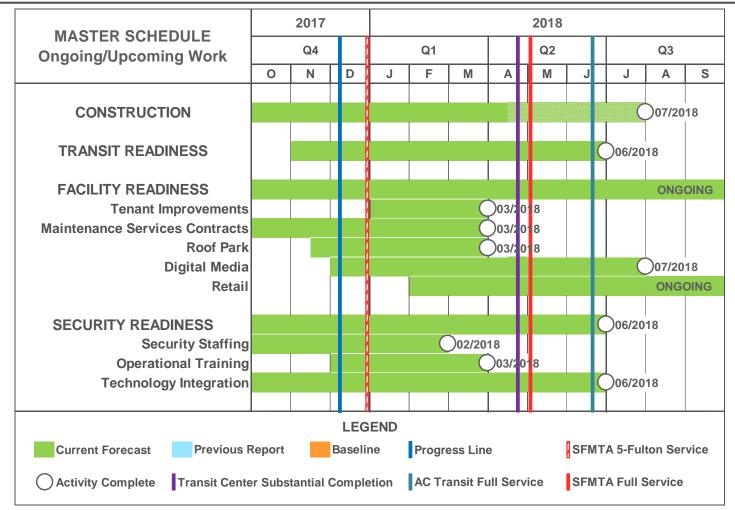


# Budget

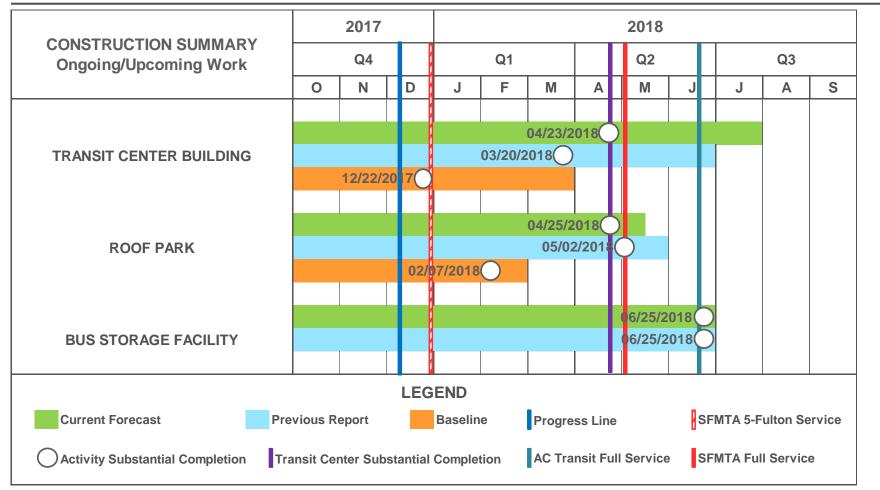




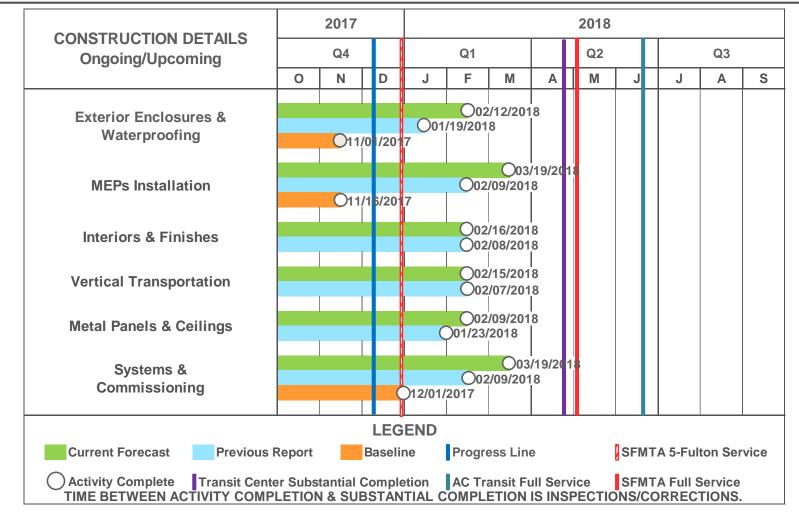
84% Program Budget 98% Contract Time



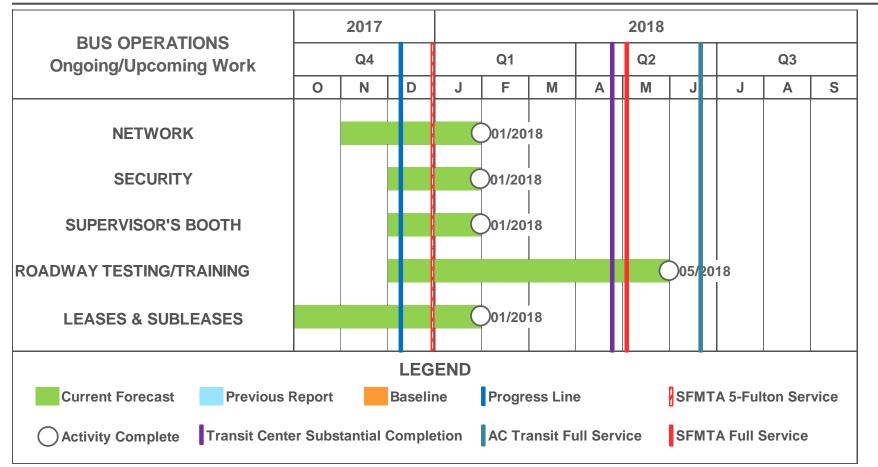














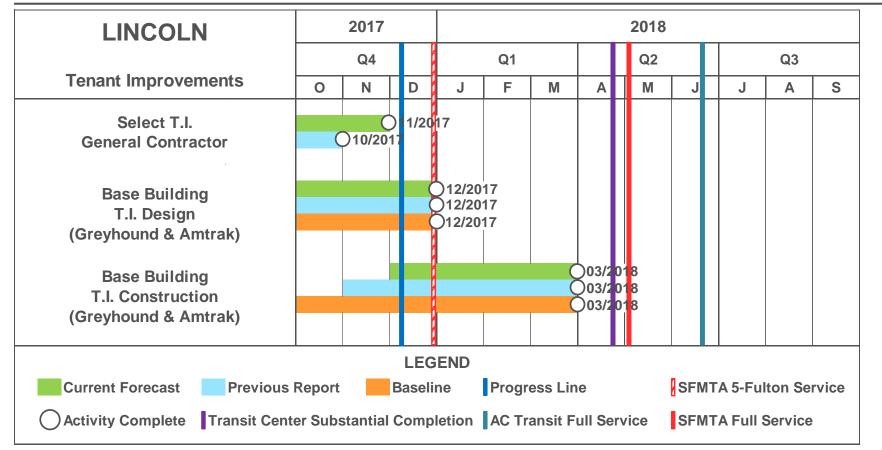
BUS DECK DETAILS - AC TRANSIT (ACT)			2017						201	8				
	coming Work		Q4		Q1				Q2	2			Q3	
	1	0	N	D	J	F	М	Α	М		J	J	A	S
NETWORK	IDF Room Complete ACT Installs Telecom ACT Network/AVL Testing		O11/		2/2017	/2018								
SECURITY	Access Control Cameras				$\sim$	/2018 /2018								
SUPERVISOR'S BOOTH	MEP/Security Tie-In Install Booth ACT Installs Consoles				<u> </u>	/2018 /2018 /2018								
ROADWAY TESTING & TRAINING	Testing Driver Training ACT Ready for Operations				)12/20	17					05/20	18 06/2018		
		LEGEN	D											
Current Forecast	Previous Report Baseline				Progr	ess Lin	е		SFMTA 5-Fulton Service					rvice
Activity Complete	Transit Center Substantial Completion				AC Tr	ansit F	ull Serv	vice	SFMTA Full Service					•



		2017						2018	}					
	AILS - SFMTA (MUNI) ocoming Work		Q4		Q1				Q2	Q2		Q3		
0		0	N	D	J	F	М	Α	м	J		J	Α	S
NETWORK	MUNI Radio Testing				)12/20 <sup>.</sup>	17								
SECURITY	Access Control Cameras				)12/20 <sup>,</sup> )12/20 <sup>,</sup>									
SUPERVISOR'S BOOTH	Install Booth Benches for Passengers Driver Accommodations				)12/20 <sup>,</sup> )12/201 )12/20 <sup>,</sup>	17								
ROADWAY TESTING & TRAINING	Testing Driver Training 5-FULTON Operational All Other MUNI Lines Operational				)12/20	17		)03/20	) 8 4/2018 05/2					
		LEGEN	D											
Current Forecast	Previous Report	Baseli	ne		Progre	ess Lin	е			SFI	ITA 5	-Fult	on Ser	vice
Activity Complete	Transit Center Substantial Completion				AC Tra	ansit F	ull Serv	vice		SFI	/ITA F	ull S	ervice	

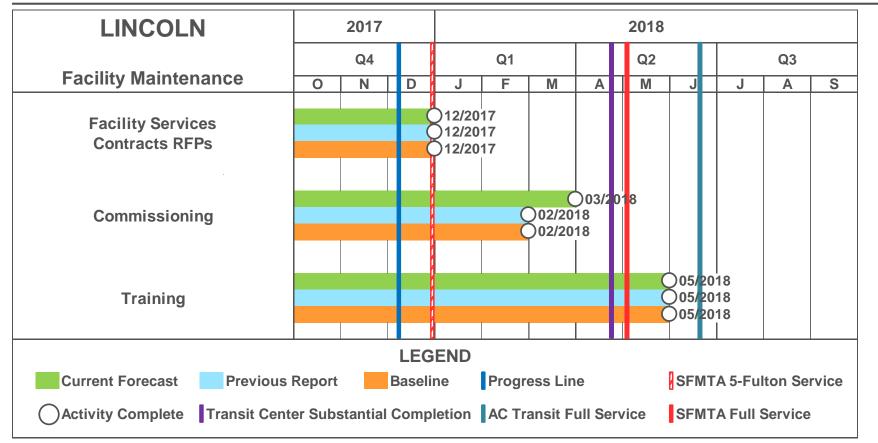


#### Facility Readiness – Lincoln Tenant Improvements





#### Facility Readiness – Lincoln Facility Maintenance



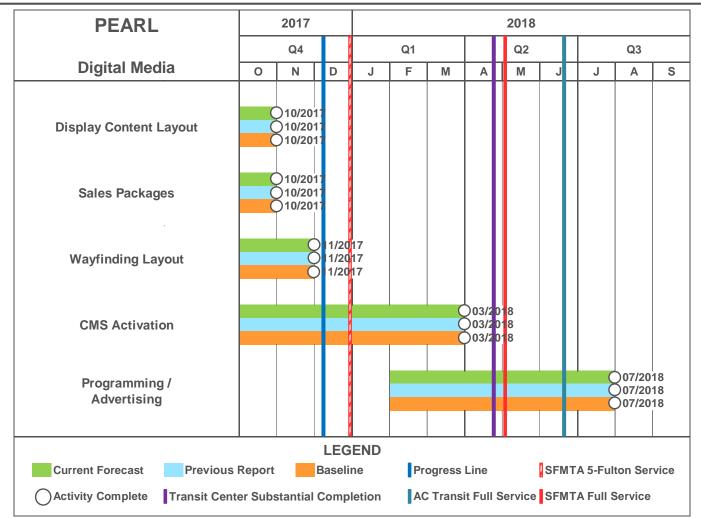


#### Facility Readiness – BRV Roof Park

		2017 2018								2018						
		Q4					Q2		Q3							
Roof Park	0	Ν	D	J	F	М	Α		М	J		J	А	S		
Initial Contacts / Ideas		)10/201 )10/201 )10/201	7													
Policies / Permitting		8	1/20 1/20 1/20	17												
Budgets / Plans					)01/20 )01/20 )01/20	18										
Staffing							)03/2 )03/2 )03/2	01	8							
Implementing Programs							)03/2 )03/2 )03/2	01	8							
Current Forecast	ous Rep	ort		GEND seline	Pro	ogress	Line			SFN		A 5-Ful	ton Ser	vice		

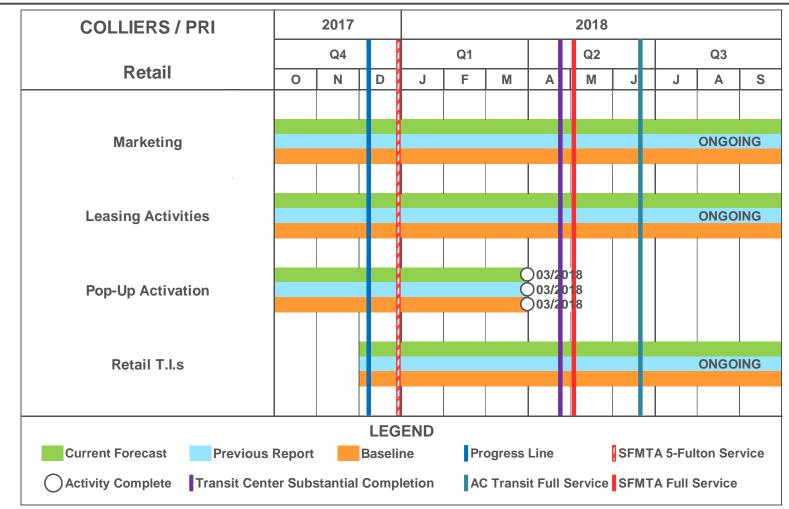


#### Facility Readiness – Pearl Digital Media





#### Facility Readiness – Colliers / PRI Retail





#### Facility Readiness – Colliers Retail

	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020
A SERIES GROUND (4 Spaces)									
B SERIES GROUND (5 Spaces)									
C SERIES GROUND (8 Spaces)									
D SERIES GROUND (6 Spaces)									
SECOND (3 Space)								•	
E SERIES SECOND (5 Spaces)						•			
PARK LEVEL PARK - A Spaces (2 Spaces)									
TOTAL					11 Spaces	12 Spaces	9 Spaces	1 Space	
% OPEN					40%	80%	100%		

#### SPACE BREAKDOWN & NOTES

Space count may vary according to Tenant size requirements Spaces may actually be leased in a different sequence

Dates will shift for spaces that require construction of improvements prior to Delivery to Tenant

5	GROUND FLOOR	SECOND FLOOR	PARK LEVEL
S	A - 4 Spaces		Park - 2 Spaces
	B - 5 Spaces		
	C - 8 Spaces		
	D - 6 Spaces	D - 3 Spaces	
		E - 5 Spaces	
TOTAL	23 Spaces	8 Spaces	2 Spaces



#### Facility Readiness - Security

SECURITY		2017							2018		_			
		Q4			Q1				Q2				Q3	
Staffing & Operations	0	Ν	D	J	F	М	Α		М	J		J	Α	S
Unarmed Security Guards / Ambassadors RFP / Contract		) )10/201	)11/20 7											
Law Enforcement MOU	(	C )10/201	) 1/20	)12/20 <sup>.</sup> 17	17									
Develop Code of Conduct							)03/2 )03/2 )03/2	01	8					
Develop SOPs						(	)03/2 )03/2 )03/2	01	8					
Pre-Opening Security Training							)03/2 )03/2 )03/2	0' 0' 0'	8					
PSIM & ECS/MNS									Ŏ	)05/ )05/ )05/	20 <sup>.</sup>	18		
Current Forecast Previous	Report		LEG Baseli	END	Pro	ogress	Line		Π	SFN	лт	A 5-Ful	ton Ser	vice
Activity Complete Transit Cent	-							S	ervice					



### **Risks**

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

Schedule Milestones generally held in past month. Schedule remains about 12 weeks beyond contractual Substantial Completion.

Challenged Activities include:

- 1. Electrical Subcontract Production Rates in both Normal Voltage and Low Voltage Distribution is single largest obstacle to completion.
- 2. Fabrication and Installation of Column Covers as well as E2 Pylons at Roof Park level have slipped in the previous reporting period and are of greater concern, but continuously trying to identify workarounds to support the schedule.
- 3. Activity focus on Muni Bus Plaza better ensuring Public Transit Operations beginning December 2017.
- 4. Concentration of work at Grand Hall and Bus Deck continues to support Bus Deck operations by March 2018.



### Risks

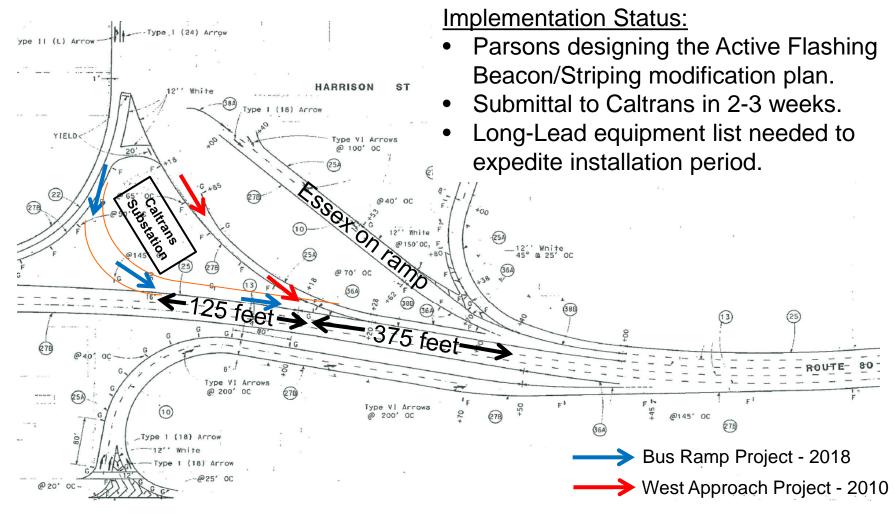
#### **Schedule**

WOJV Mitigation Strategy Update:

- 1. Targeted Shift Work and Overtime for Critical Trades.
- 2. Increased Supplementation of Electrical Work.
- 3. Scope Shift Between Subcontractors for Site Concrete.
- 4. Possible Future Supplementation for Column Covers.
- 5. Possible Future Supplementation for Interior Finishes.

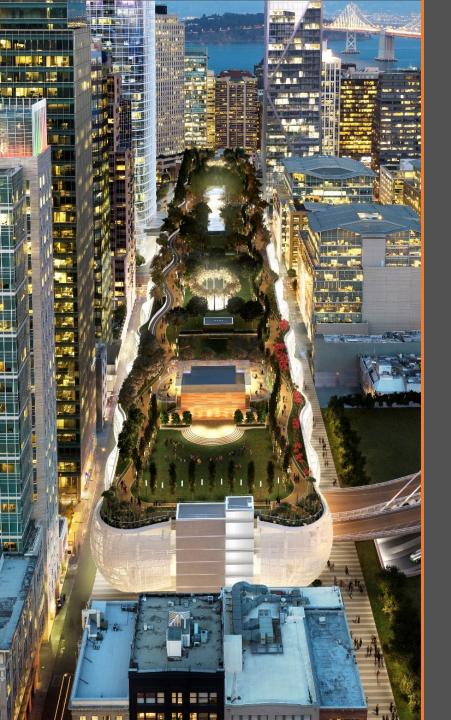


# Bus On-Ramp Merge





#### Eastbound Bay Bridge Approach



# Questions?



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