

Tr

Construction Update

September 12, 2013



Period Summary

- There was one minor recordable incident this period. An ironworker placing rebar received a cut to his forearm requiring stitches. There were no lost time incidents this period.
- There have been over 835,000 craft hours completed, excluding demolition, through August 31, 2013. Over 45,000 completed since the last meeting.
- Bracing installation is complete in Zones 1 and 2; work continues in Zone 3 and has just begun in Zone 4. In Zone 3 struts are complete at bracing levels A and B, 90% complete at level C, 80% complete at level D. In Zone 4 struts are complete at bracing level A and 30% complete at level B.
- Overall the excavation work is 80% complete.

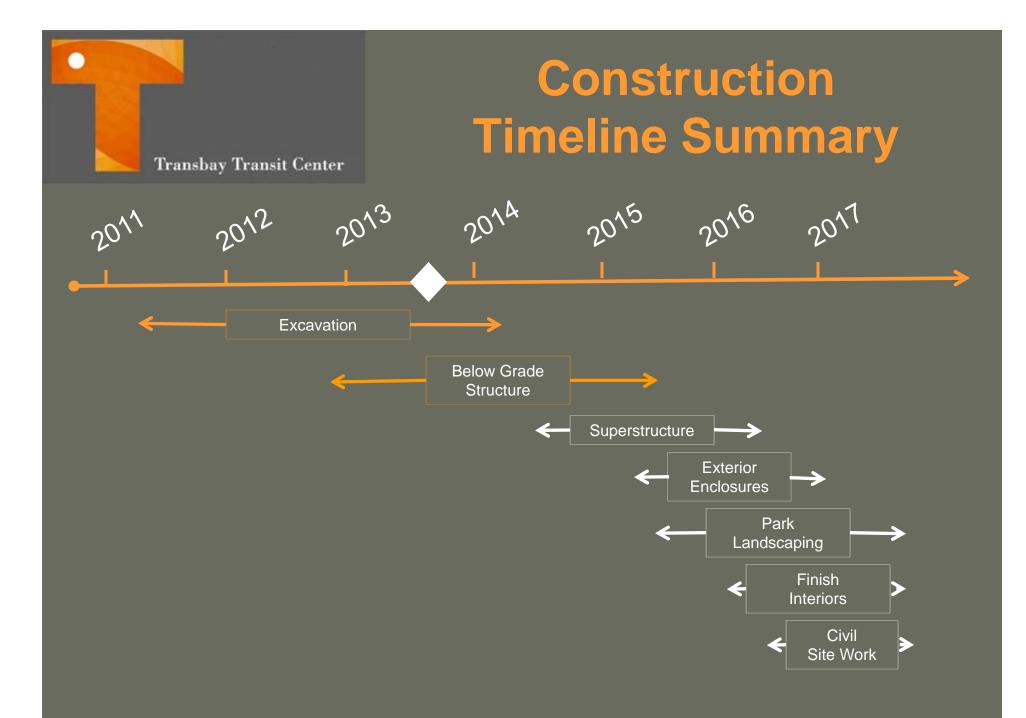
Period Summary

- Grounding system installation, geothermal installation and mud slabs are completed in Zone 1.
- 1,259 micropiles have been installed and tested in Zones
 1, 2 and part of 3. The micropile work has caught up with the excavation. It is anticipated that the micropile work will commence again in January of 2014.
- Grounding, Geothermal and Mud Slab installation has caught up with the excavation and is complete through Zones 1, 2 and approximately 50% of Zone 3. Work will re-commence in Zones 3 and 4 in February 2014.
- RUP 4.2, the AWSS Work, continued this period. Final repaving of First and Second Street intersections was completed. Working with DPW to continue work between Main and Beale Streets.

Construction The Next 90 Days

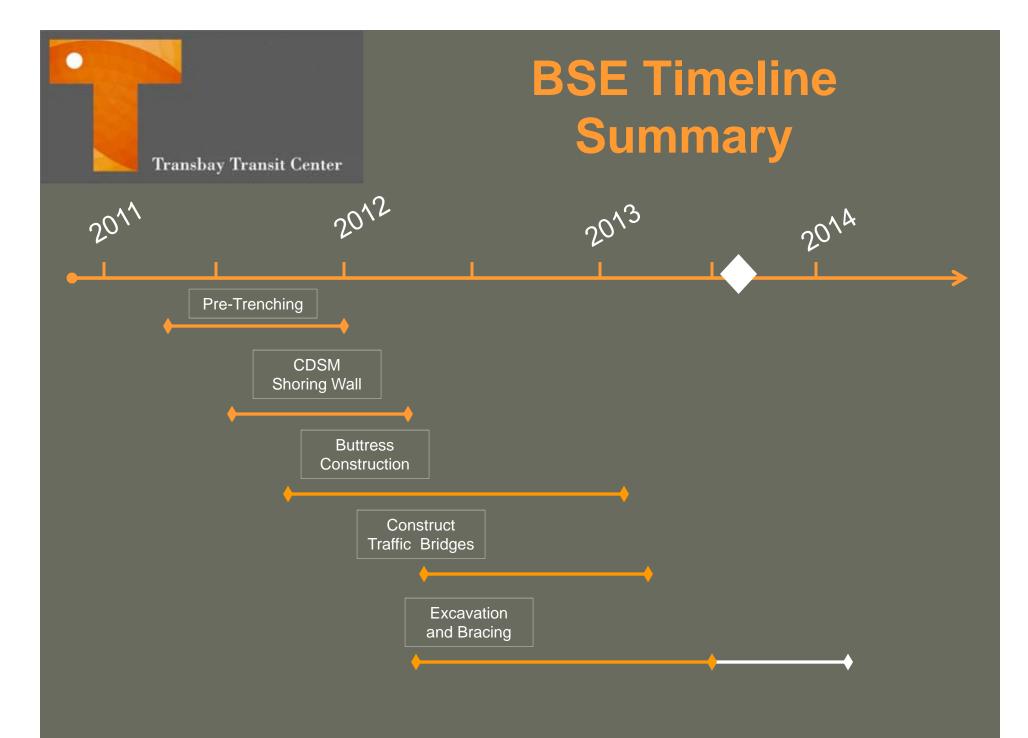
- Next 30 Days (September)
 - Continue Zone 1 waterproofing and protection slab install.
 - Start Zone 2 waterproofing and protection slab install.
 - Install reinforcing steel, prep and place first Structural Mat Slab section in northwest corner of Zone 1 (Area #3).
 - Install Reinforcing, prep and place Structural Mat Slab in southwest corner of Zone 1 (Area #1).
 - Start Cast Node fabrication.

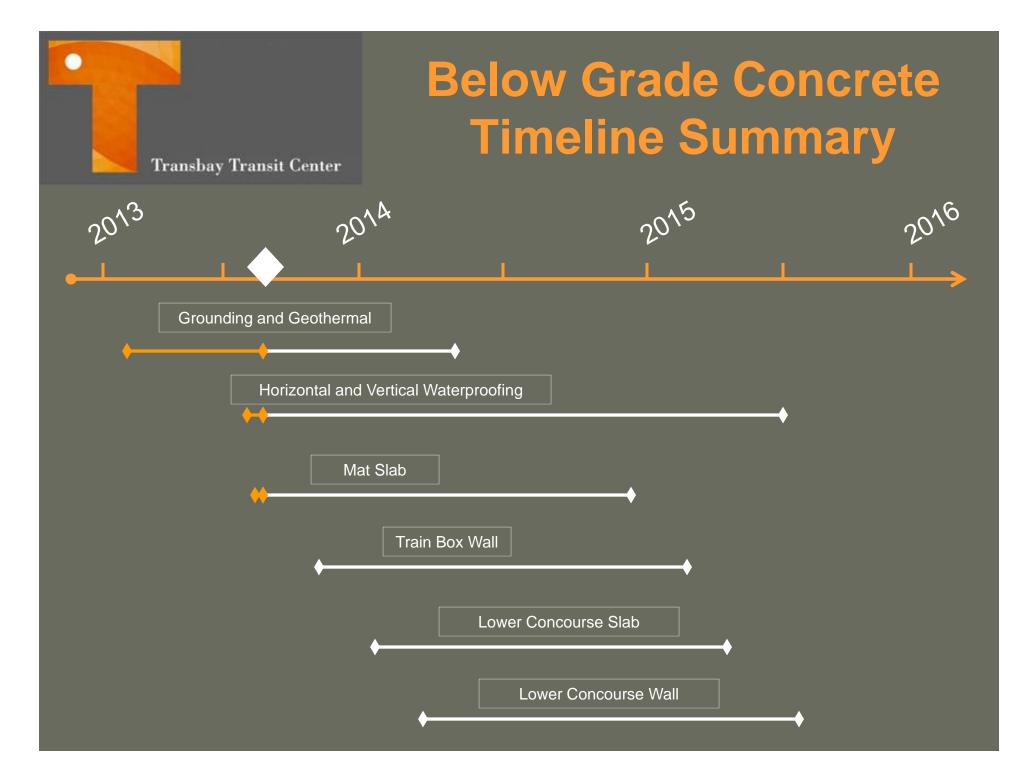
- In 60 Days (October)
 - Install Beale St. PG&E duct bank under traffic bridge.
 - Complete Level B bracing in Zone 4.
 - Complete Structural Mat Slab pour in Zone 1, Area #2.
- In 90 Days (November)
 - Start Zone 4 Level C Bracing.
 - Complete demolition of Buttress "tops" through Level 4.
 - Continue Structural Mat Slab pours in Zone 1, Areas #4 and #7.





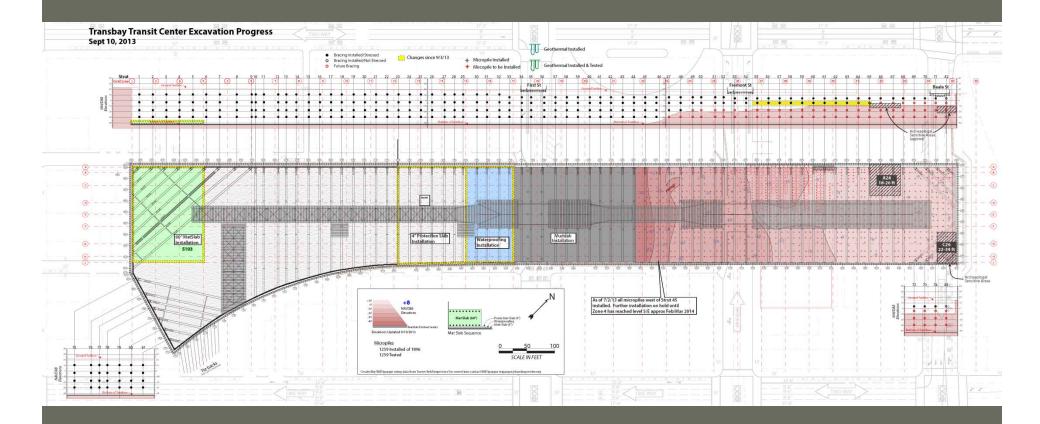
Key Schedule Dates	Baseline	Jul-13	Float
Complete Utility Relocations	Jul-13	Jan-14	933
Complete First Mat Pour	Jul-13	Sep-13	0
Complete Zone 2 Mat Pour	Aug-13	Nov-13	13
Complete Excavation	Jan-14	Mar-14	18
Complete Zone 1 Concourse Level Deck	Mar-14	Jul-14	22
Begin Steel Erection	Jun-14	Jul-14	0
Complete Steel Superstructure	Nov-15	Nov-15	0
Connect Bus Ramps to Transit Center	May-16	Oct-15	320
Complete Rough Interiors	Aug-16	Jan-17	37
Complete Exterior Curtain Wall	Jan-17	Feb-17	7
Complete Finish Interiors	Jul-17	Sep-17	21
Begin Bus Operations	Oct-17	Oct-17	0
Final Completion	Mar-18	Jan-18	0







Excavation and Bracing Status All Zones September 10, 2013







September 2013

July 2013



Micropile Status through July 31, 2013*

Transbay Transit Center

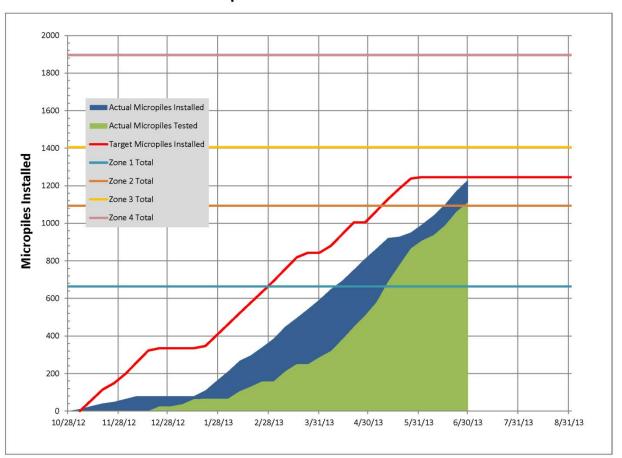
Micropiles	Total	Installed	% Installed	Tested	% Tested
Zone 1	664	664	100%	664	100%
Zone 2	429	429	100%	429	100%
Zone 3	313	166	53%	166	53%
Zone 4	490	0	0%	0	0%
Overall	1896	1259	66%	1259	66%

* Micropile operation was demobilized on July 24, 2013. Will return pending completion of excavation.

Micropile Status

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Micropile Installation Production

Date: 7/10/2013

Waterproofing Zones 1 and 2

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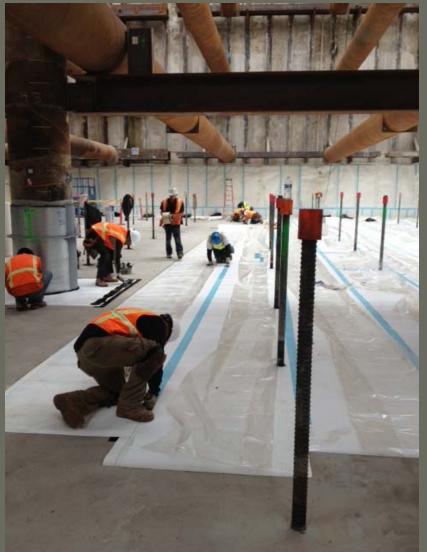




















Protection Slab – Zones 1 and 2

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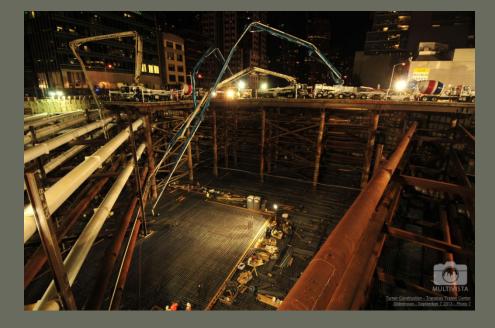






Mat Foundation Slab Placement – Zone 1



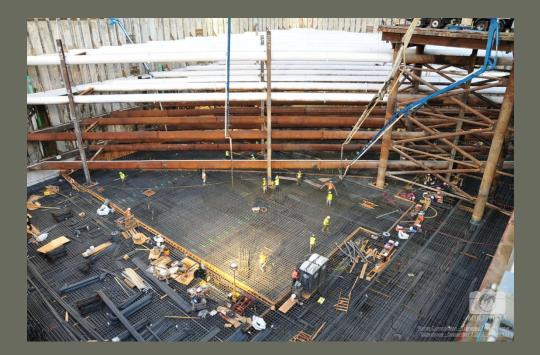








Mat Foundation Slab Placement – Zone 1







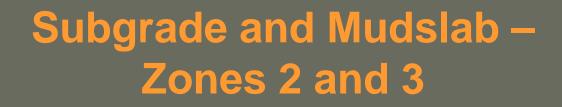
















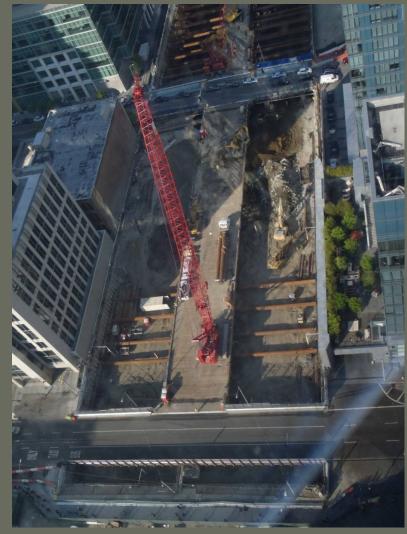


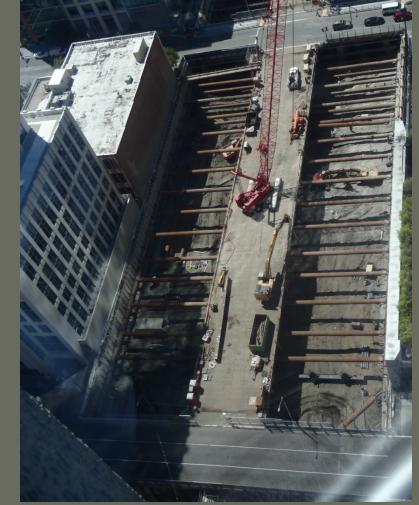




East Section Progress

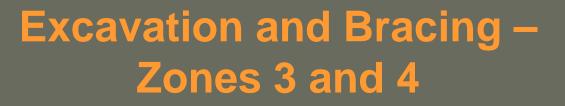
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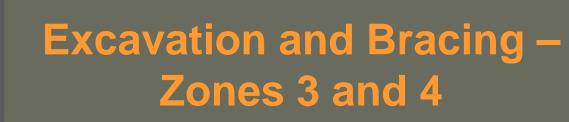
September 2013

July 2013















Utility Relocation - AWSS Installation Update

Transbay Transit Center







Special Event







Contingency Tracking (\$millions)

Trend	Design Contingency	Construction Contingency	CM/GC Contingency	Program Reserve	Escalation	Total Contingency & Reserve
Revised Baseline Budget Amounts	\$8.2	\$62.4	\$36.4	\$87.5	\$30.3	\$224.8
Utility Relocation Change Orders				\$.015		
BSE Change Orders		(\$2.2)				
Below Grade Change Orders		(\$.06)				
Design Budget Changes (Cast Connex)				(\$.21)		
Total Draws	\$0	(\$2.23)	\$0	(\$.195)	\$0	(\$2.42)
Remaining Balances	\$8.2	\$60.2	\$36.4	\$87.3	\$30.3	\$222.4



Bay Area Regional Labor Breakdown

Labor by Area	Through August 2013		
Location	Total Hours Completed	Hours Percent	
East Bay (Alameda, Contra Costa, Solano)	266,178	32%	
North Bay (Marin, Napa, Sonoma)	25,694	3%	
South Bay (San Mateo, Santa Clara)	82,166	10%	
San Francisco	152,295	18%	
Other*	311,463	37%	
Totals	837,796**	100%	

*Other includes workers from throughout California including the Central Valley as well as workers from out of state who are onsite for specific tasks.

**Total hours are for the Transit Center construction work and do not include the initial Demolition work represented by a total of approximately 55,000 craft hours.

Labor Breakdown by Trade through August 2013

Transbay Transit Center

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Classification	TTC Building and RUP's*
Inspectors – Soils / Material Test	39
Carpenters and Related Trades	43
Cement Mason	41
Electrical – Utility Lineman	26
Electrician	25
Field Surveyor	26
Iron Worker	122
Laborer and Related Trades	521
Operating Engineer	310
Pile Drivers	125
Plumber	6
Roofer and Waterproofer	24
Sheet Metal	5
Teamsters	166
Tile Setters / Finishers	7
Water Well Driller	9
Totals	1,495

* Relocation of Utilities Project



Questions?