



Community Meeting Construction Update

December 17, 2014

Transbay Transit Center

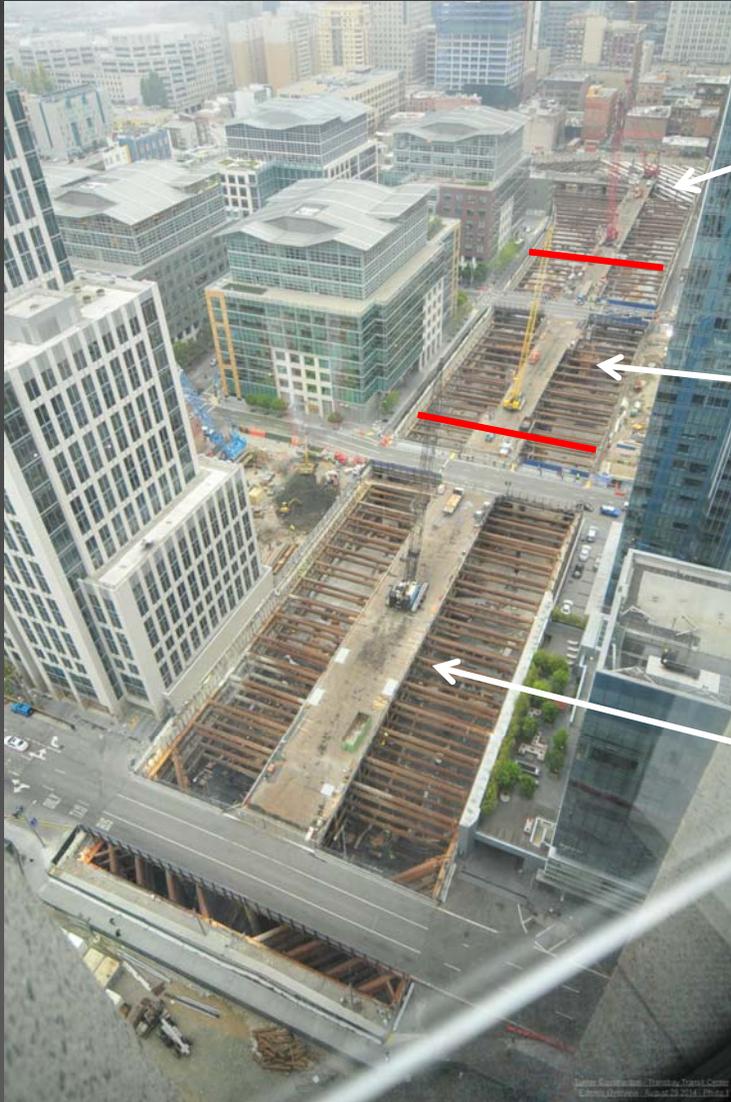
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Current Project Overview



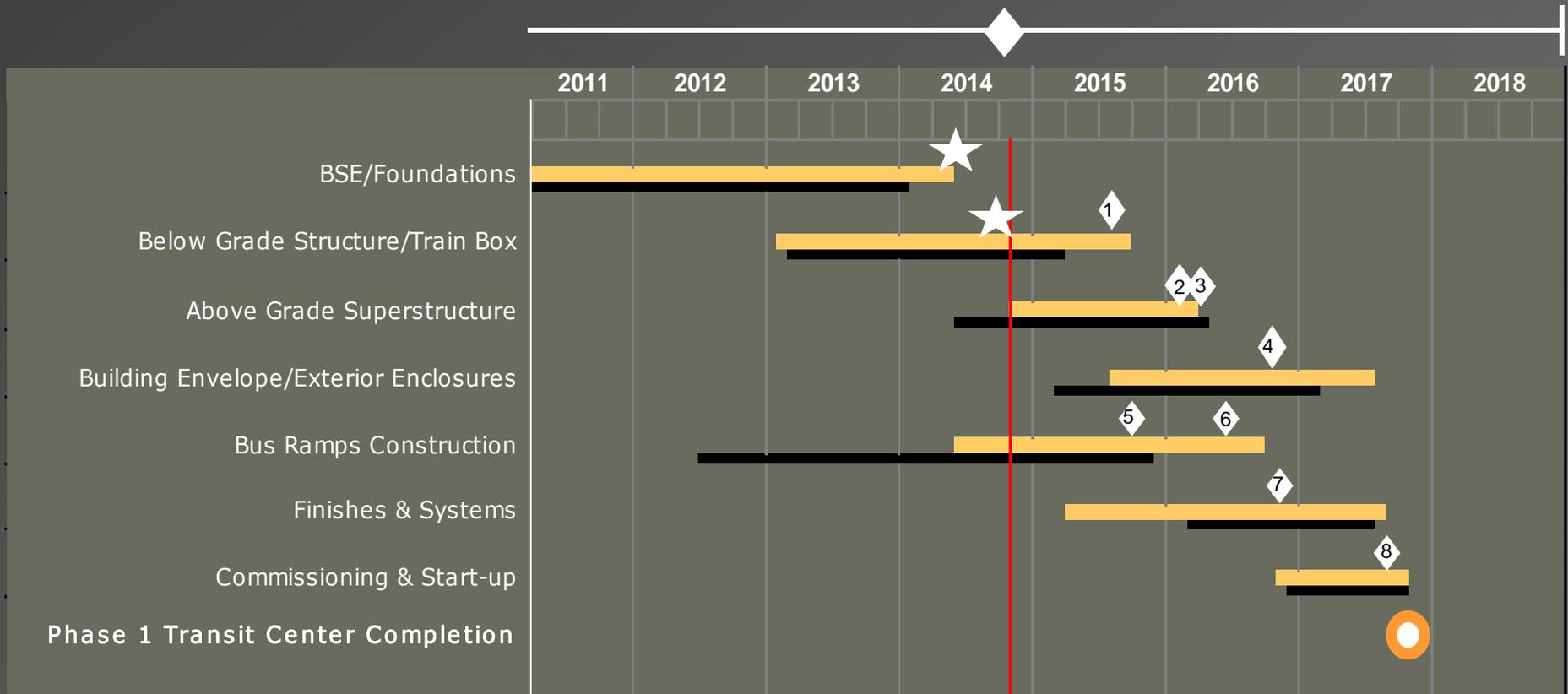
Western Zone – Gridlines 1 to 10

Central Zone – Gridlines 10 to 20

Eastern Zone – Gridlines 20 to 35



Project Status – Construction Schedule (Critical Items*)



* The current critical path of the project is as follows; structural steel fabrication and erection (GL's 10 -16), central zone lift 3 walls and eastern zone lower concourse slab, wall lifts 1, 2 & 3 and re-bracing.

Current Schedule 
 Baseline Schedule 

 = Completed Work (BSE work excluding re-bracing and bridges, final Mat Slab placement)



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Project Status – Construction Schedule (Milestones)

#	Milestone	Current	Prior
1	Complete Lower Concourse Slabs and Walls	Q4 2015	
2	Complete Structural Steel Erection and Welding	Q1 2016	
3	Complete Above Grade Concrete	Q2 2016	
4	Building Watertight	Q3 2016	
5	Complete Bus Ramp Below Grade Concrete	Q3 2015	
6	Complete Bus Ramp Viaduct and Cable Stay Bridge	Q2 2016	
7	Permanent Power to Building	Q4 2016	
8	Building Ready for Bus Driver Training	Q3 2017	



Project Status – Safety Statistics

	2011	2012	2013	2014 (through Nov. 30 th)
Total Craft Hours by Year	203,560	421,488	315,000	333,537
Number of Recordable Incidents	3	6	3	10
Number of Lost Time Incidents	1	0	0	3
WO Project Annual RIR / National Annual BLS RIR Average / California RIR Average	2.95 / 3.6 / 3.8	2.85 / 3.4 / 3.6	1.90 / 3.8 / 4.0	n/a
WO Project Annual LTIR / National Annual BLS LTIR Average / California LTIR Average	0.98 / 1.9 / 1.8	0.00 / 1.8 / 1.7	0.00 / 1.5 / 1.9	n/a

NOTES:

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

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

* BLS is the Bureau of Labor Statistics, U.S. Department of Labor and State of California, it takes these agencies more than 18 months to produce the statistics after year's end.



Period Summary

- There were no recordable or lost time safety incidents this period.
- There have been over 1,275,000 craft hours completed, excluding demolition, through November 30, 2014. An increase of over 34,000 hours since our last construction update.
- Daily structural steel deliveries continue.
- In preparation for structural steel erection between gridlines 11 and 12 access trestle disassembly will begin December 4th.
- Structural steel erection is in progress between gridlines 10 and 11.
- Steel trial assembly and fabrication continues in all Structural Steel fabrication shops.



Period Summary

- In the eastern zone, wall lifts 1 & 2 continue, followed by re-bracing. Column concrete placement is now over 50% complete.
- Placement of third lift train box walls continue in the western and central zones.
- Lower Concourse slab placement is complete in both the western and central zones.
- Lower Concourse slab placements have begun in the eastern zone with the completion of two. Placement of lower concourse slabs are over 50% with 22 of 36 completed.
- On the Bus Ramp project, both pylon 9 barrette piles have been completed and 6 of 29 CIDH piles have been completed.



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Below Grade Concrete Progress Through November 30, 2014

Steel Erection Zones	1st Lift Walls	1st Lift Walls Poured	1st Lift Walls Percent	2nd Lift Walls	2nd Lift Walls Poured	2nd Lift Walls Percent	3rd Lift Walls	3rd Lift Walls Poured	3rd Lift Walls Percent
Western	35	35	100%	35	35	100%	35	10	29%
Central	20	20	100%	20	20	100%	20	16	80%
Eastern	35	22	63%	35	12	34%	35	0	0%
Total	90	77	86%	90	67	74%	90	26	29%

Steel Erection Zones	Columns	Columns Poured	Columns Percent	Lower Concourse Decks	Lower Concourse Poured	Lower Concourse Percent
Western	62	62	100%	10	10	100%
Central	48	48	100%	10	10	100%
Eastern	66	34	52%	16	2	13%
Total	176	144	82%	36	22	61%



Above Left: West end train level, lower concourse formwork being removed.



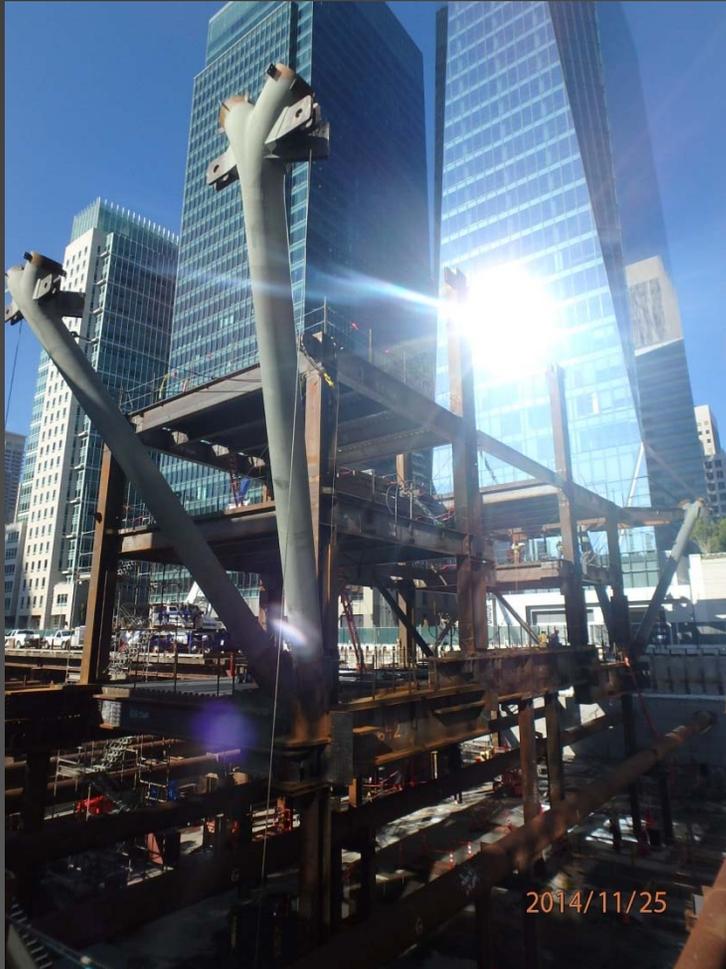
Above Right: Southwest end, reinforcing for 3rd lift walls.



Below Right: West end lower concourse level interior walls and waterproofing ready for 3rd lift walls.



Central Zone Activity



Above: Southside ground floor cast node and pipe columns to bus deck.



Above: Ground, mezzanine and bus deck level steel erected.



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Central Zone Activity



Above: Southside ground floor cast node and pipe columns to bus deck.



Above: Ground, mezzanine and bus deck level steel erected.



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Central Zone Activity



Above: Cast nodes and pipe columns connecting bus deck and roof park.

Below Left: Ground floor to bus deck.



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Eastern Zone Activity



Above: Preparation for Lower Concourse slab placement, first in eastern zone.

Right: Eastern zone re-bracing in preparation for 2nd lift walls.





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Structural Steel Fabrication



Above and Right: Steel fabrication continues in Vallejo at XKT.





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Cast Node Fabrication as of November 24, 2014

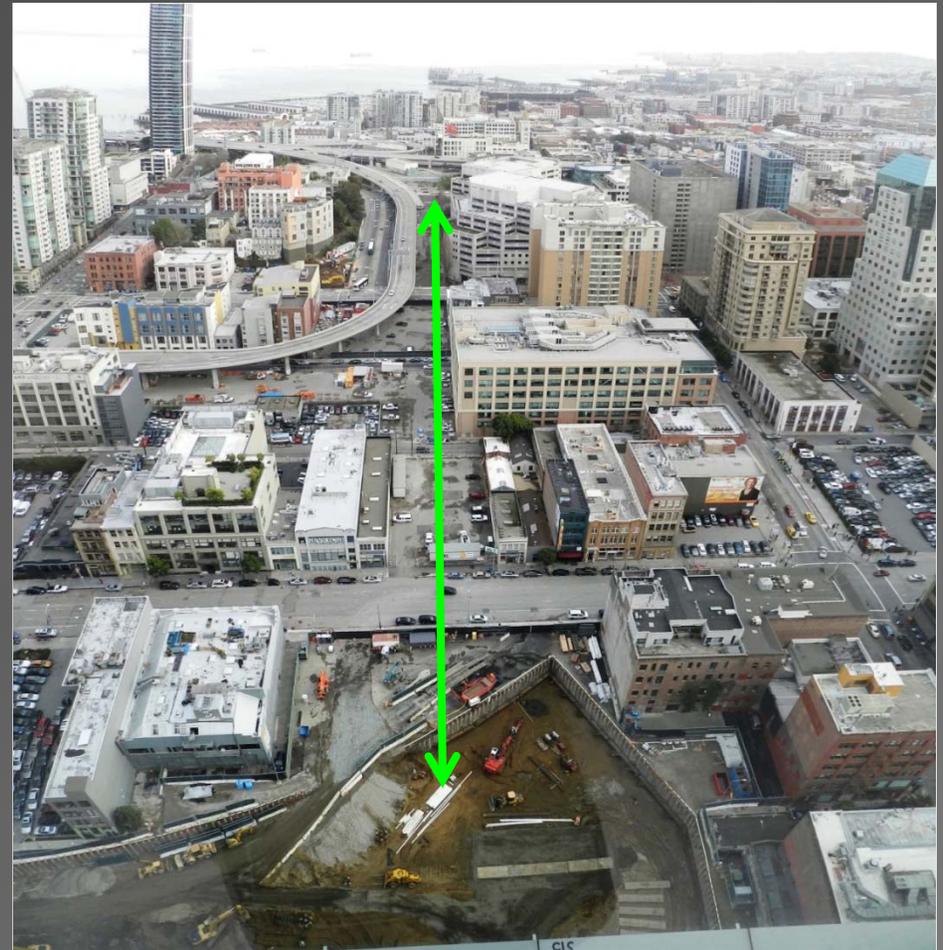
Casting Group	Totals	Shipments Mar.-May	Shipment May-June	Shipment August	Shipment September - October	Shipment November - December	Shipment January - February	Total Shipped to Date
Ground Level - Atchison 19,600 - 46,300 lbs	35	8	6	8	2	0	0	24
Bus Deck - Amite 9,500 - 22,800 lbs	75	16	5	10	16	4	0	51
Roof Level - Atchison 4,400 - 5,400 lbs	138	32	32	14	24	10	0	112
Light Columns	56	N/A	0	8	0	14	0	22
Totals	304	56	43	40	42	28	0	209

Additional Information: 90% of all nodes have been cast. Of the shipped nodes, 187, or 75% are for the main structure and 22, or 39% are for the light column.



Bus Ramps and Bridge

- Current Status
 - Contractor demolition of portions of original bus ramp foundations continues.
 - CIDH Piles in progress, total of 6 CIDH piles completed.
 - Pylon 9 Barrette Piles; first completed on November 11th, second and final completed November 21st.





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Bus Ramps and Bridge



Above Left: Drilling a CIDH Pile.

Above Right: Installing rebar cage into second Barrette Pile, Pylon 9.



Construction

The Next 90 Days

- Next 30 Days (Dec.)
 - Continue Lower Concourse decking, rebar and concrete in eastern zone.
 - Continue foundation walls (lift 3) and re-bracing in the west and eastern zones.
 - Continue foundation walls (lifts 1 & 2), re-bracing and columns in the eastern zone.
 - Continue Structural Steel and Cast Node fabrication.
 - Continue Bus Ramp work on the CIDH piles.
 - Continue structural steel work onsite.
 - Continue MEPF Coordination.
- Next 60-90 Days (Jan. – Feb.)
 - Continue concrete foundation walls and columns of the Train Box at various levels in west, central and eastern zones.
 - Continue Lower Concourse decking, rebar and concrete in the eastern zone.
 - Continue re-bracing in western and eastern zones.
 - Continue Bus Ramp and Bridge work; CIDH, demolition and utility re-location.
 - Continue structural steel erection and fabrication and cast node fabrication.
 - Continue MEPF coordination.



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Questions?

