

central subway

Laying the Slab at YBM

Work on the mezzanine level floor slab is nearing completion, and excavation of the platform level will soon begin.



Progress Report

May 2016



SFMTA
Municipal
Transportation
Agency

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Cover photo: Rebar is cut to fit in specific spaces inside the Yerba Buena/ Moscone station box. One man uses a cutting torch to make precise cuts, while another holds the bars to prevent movement. The last section of rebar cage assembly for the mezzanine level is almost complete, and once concrete is poured and forms removed, the mezzanine's floor slab will be complete. **More photos can be found starting on page 34.**

Above photos: Workers re-fit a bucket on a mini excavator inside the north access shaft, where excavation has recently resumed. Once fully excavated and built out, this shaft will serve as an emergency exit, located at the north end of the Chinatown Station platform.

See the Appendix E final page for CS websites hyperlinks and public outreach on line resources. The Project main web site is at: <http://www.centraSubwaysf.com/>



A backhoe fitted with a large jackhammer pulverizes large pieces of concrete removed from the north headwall.

Executive Summary

Continue excavation at YBM, UMS and CTS Stations for the future stations.

Chinatown Station - Headhouse: excavated to Temp level 4.0 Struts; install Walers and Struts Level 4. Crosscut Cavern: Begin tunneling under Stockton Street. Incidental street work, monitoring, surveying. North Emergency Egress Shaft - excavation continued late-May.

Union Square/Market Street Station - North Concourse: Completed compensation grout pipe installation. Platform Station: Began excavating and chipping piles for roof deck 10-5B. Drilled and installed compensation grout pipes and commenced preconditioning compensation grout pipes. South Concourse: Excavate/grade for concourse invert slab, fine grade/install base and slab drain pipes, form and pour mud slab. Install waterproofing. Ellis Annex: Remove and replace seismic joint, water test seismic joint, install waterproofing, grout protection course and lightweight concrete. UMS Garage: Continue demolition on the level 4 slab. Completed micropile installation on the Geary Street.

Yerba Buena/Moscone Station - Concourse level concrete pour 3 of 3 completed. Continue excavation and temporary bracing installation in headhouse below the Concourse level to allow excavation to Invert level (bottom of station). Break through and remove tunnel liner to allow excavation to Invert level within station box. Continue utility installation on 4th Street north of the north headwall. Place shotcrete for interior walls in Mezzanine.

Surface, Track and Systems– Continue Muni ductbank installation. Continue 78" sewer rehabilitation. Continue 36" sewer force main. Continue Auxiliary Water Supply System (AWSS) installation. Continue water line work. Continue OCS pole foundation installation. Continue tunnel drainage system installation. Continue tunnel invert slab work.

Tunnel - Contract administrative closeout is ongoing.

Total project costs to date are \$941.29 million, an increase of \$11.35 million over last month. The total cost to date equals 59.64% of the total project budget of \$1.578 billion. The Master Project Schedule forecast the Revenue Service Date of June 2019.

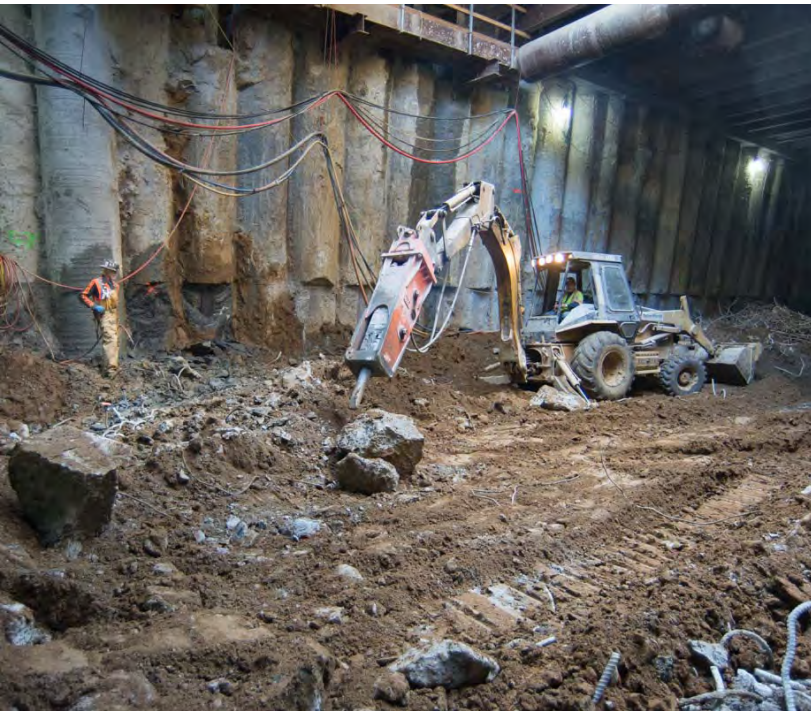
The Stations Contractors' Safety Reports show no recordable accidents took place this month and the rates of work site accident incidents by the man hours worked continue to be below industry standards - see tables on page 29.

Key Milestones

Preparing Station walls for drilling and grouting work



1 Workers saw-cut to a specified depth along the pile walls



2 Crews jackhammer away material below saw cut lines to flatten wall surface

MILESTONE	DATE EXPECTED
General	
Revenue Service	June 2019
Contract 1252 Tunnels	
Substantial Completion	April 15, 2015 (A)
Contract 1300 Stations, Surface, Track, Systems	
Notice to Proceed (NTP 1)	June 17, 2013 (A)
Notice to Proceed (NTP 2)	January 12, 2014 (A)
Substantial Completion	February 10, 2018



3 Drill rigs are set up, and soil grouting work begins

Costs and Schedule

Costs (See Appendix A for Details)

The Current Cost Estimate (CCE) for the Central Subway Project is **\$1.578 billion** in year of expenditure dollars (\$YOE). This total project cost is shown at the top of Report 7.1, Program Project Budget. This capital cost projection incorporates allocated and unallocated contingencies to cover the risks associated with the project completion.

Total net incurred costs for the project are \$941.29 million, a \$11.35 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$902.93 million) plus the utilities joint trench Form B Reimbursement payment (\$10.52 million), invoices currently being processed (\$20.07 million) and estimates of outstanding pay requests (\$7.77 million). This incurred amount equals 59.64% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,179.79 million. This represents 75% of the total project budget.

Earned Value Analysis

In May 2016 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA May Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

Preliminary May Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,212,596,433
Earned Value:	\$947,153,898
Actual Cost:	\$941,290,172
Schedule Performance Index (SPI):	0.78
Cost Performance Index (CPI):	1.01
Percent Complete:	60%

Schedule Highlights - Continued

The Master Project Schedule (MPS) below includes progress through May 2016. The May 2016 Schedule Update submittal from Contract 1300 Contractor is rejected due to incorrect schedule logic. The Contract 1300 schedule represented in this report is based on the SFMTA May 2016 Schedule Update.

The MPS shows a forecast Revenue Service Date of June 2019.

The controlling critical (longest) path of the MPS runs through CTS Excavation succeeded by STS Startup & Testing, Commissioning and Pre-Revenue Activities to the Baseline Finish and Revenue Service Date. See Appendix B – Longest Path. The latest schedule shows the longest path running through the Chinatown Station (CTS). Contractor is required to implement a Recovery Schedule to put the Project back on schedule.

Schedule Contingency is fully utilized on the critical path of the MPS, which is below the Minimum Schedule Contingency level of 6 months. A schedule re-evaluation will be performed, utilizing the updated Contract 1300 Schedule. Recovery options are being implemented in key areas as work proceeds. SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. The Contractor, Tutor Perini Corporation's (TPC) at CTS commenced a new schedule activity, SEM Mining during the month of May. TPC experienced initial lower production rates during this mining activity that resulted in a lost 14 calendar days in month of May. TPC has since improved its production rate by completing one SEM side drift advance per shift. It is not unusual for SEM production rates to initially fall behind at activity startup. TPC has identified mitigation measures, working weekends and re-sequencing critical path activities to recover lost time. Contract 1300 Schedule delay in May results in the forecast Revenue Service Date slipping to June 14, 2019.

Contract 1300 Contractor submitted eighteen (18) Schedule Updates from December 2014 to May 2016. SFMTA rejected nine (9) Schedule Updates from September 2015 to May 2016. Contractor has been directed to develop a Recovery Schedule as required by Contract and correct out-of-sequence and Retained Logic driving many of the forecast dates. Review of schedule updates as well as identifying recovery options is ongoing.

Contract 1300 Stations, Surface, Track and Systems

The Contractor, Tutor Perini Corporation's (TPC) baseline schedule is incorporated into the master program. The preliminary SFMTA Contract 1300 May 2016 schedule is used within the May Report. The SFMTA Contract 1300 May 2016 schedule is based on the approved baseline schedule logic with adjustments made for fixing retained logic and lags. SFMTA met with TPC on 6/2/16 to review the draft May 2016 monthly schedule update and emphasized to TPC that they should not submit revised schedule logic within this monthly update. The SFMTA will continue to use their Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of



As new sections of sewer pipe are installed in this trench on the east side of 4th, completed sections are backfilled and soil is compacted.

Schedule Highlights - Continued

SFMTA scheduling concerns.

Work Package P-1254R (CTS) has performed the following work this month:

- Head house- excavated to Temp Level 4.0 Struts; install Walers and Struts Level 4
- Cross Cut Cavern: Begin tunneling under Stockton Street
- Incidental street work, monitoring, surveying
- North Emergency Egress Shaft – excavation continued late-May

Work Package P-1253 (UMS) has performed the following work this month:

- Stockton Street closure between Geary and Ellis and there is no Southbound lane on Stockton between Post and Geary; Ellis Street one lane
- North Concourse: Chipped vertical drain slots and chipped piles for shotcrete leveling course. Installing horizontal drain pipes and welded wire fabric. Installed 10 compensation grout pipes
- Platform Station: Began excavating and chipping piles for roof deck 10-5B. Continued excavation under roof deck. Drilled and installed compensation grout pipes and commenced preconditioning.
- South Concourse: Excavate/grade for concourse invert slab, chip/prepare piles for stub beams and vertical drain slot, fine grade/install base and slab drain pipes, form and pour mud slab. Install waterproofing.
- Ellis Annex: Remove and replace seismic joint, water test seismic joint, install waterproofing, grout protection course and lightweight concrete.
- UMS Garage: Continue demolition of 17-Line wall between USG and North Concourse. Continue micropile installation on the Geary Street Wall. Continue FRP B-line wall

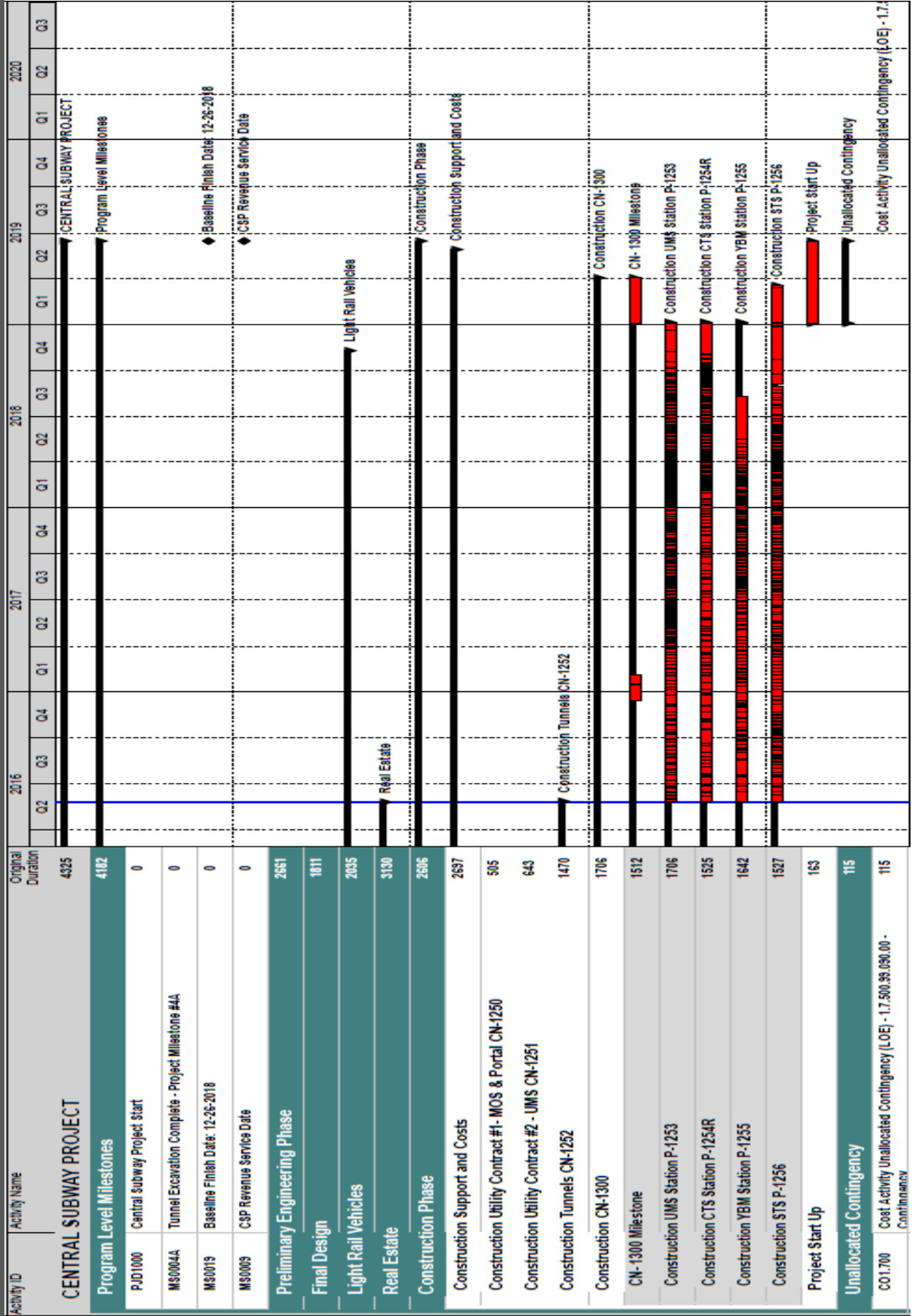
Work Package P-1255 (YBM) has performed the following work this month:

- Concourse level concrete pour 3 of 3 completed
- Continue excavation and temporary bracing installation in head house below the Concourse level to allow excavation to Invert level (bottom of station)
- Break through and remove tunnel liner to allow excavation to Invert level within station box
- Continue utility installation on 4th Street north of the north headwall
- Place shotcrete for interior walls in Mezzanine

Work Package P-1256 (STS) has performed the following work this month:

- Continue Muni ductbank installation
- Continue 78" sewer rehabilitation
- Continue 36" sewer force main
- Continue Auxiliary Water Supply System (AWSS) installation
- Continue water line work
- Continue OCS pole foundation installation
- Continue tunnel drainage system installation
- Continue tunnel invert slab work

Master Project Schedule - (December Update)





A worker looks down onto shotcrete operations from a platform where shotcrete mixing and pumping equipment is located.

Contracts & Construction

Construction Contracts In Progress

Contract 1300: Combined Work Packages 1253, 1254, 1255, 1256

- Contractor: Tutor - Perini Corporation
- Amount: \$842.94 million
- Contract Status: 46.15% complete construction

Contracts Completed

[See Appendix D](#)

Contract 1250: Moscone Station and Portal Utilities Relocation

Contract 1251: Union Square/Market Street Station Utility Relocation

Contract 1277: Pagoda Theater Site Demolition (Funded separately from the CS Project budget)

Contract 1252: Central Subway Tunneling

Contract SBE Participation (Updated Quarterly) [See Appendix E](#)

Stations, Surface, Track and Systems

Contract 1300 Contractor: Tutor-Perini Corporation

Description of Work

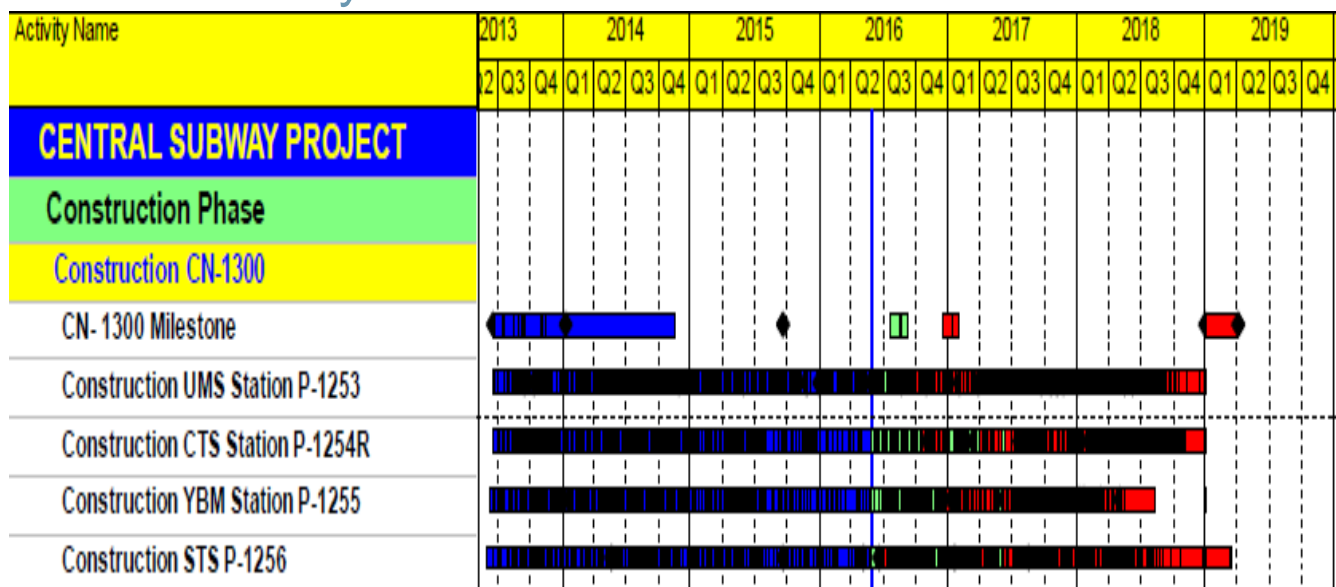
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

Work includes station finishes, AC and DC substations, elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, Cutter Soil Mixing, secant pile bottom up and Sequential Excavation Method construction, settlement monitoring, building protection, connecting to and modifying the BART Powell Street Station, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$839,676,400
Modifications to Date:	\$3,259,676
Current Contract Value :	\$842,936,076

Budget/Expenditures▲	
Current Budget	\$859,601,400
Expenditures to Date	\$380,879,767

1300 Summary Schedule



Chinatown Station

Contract 1300 - Work Package 1254R



Description of Work

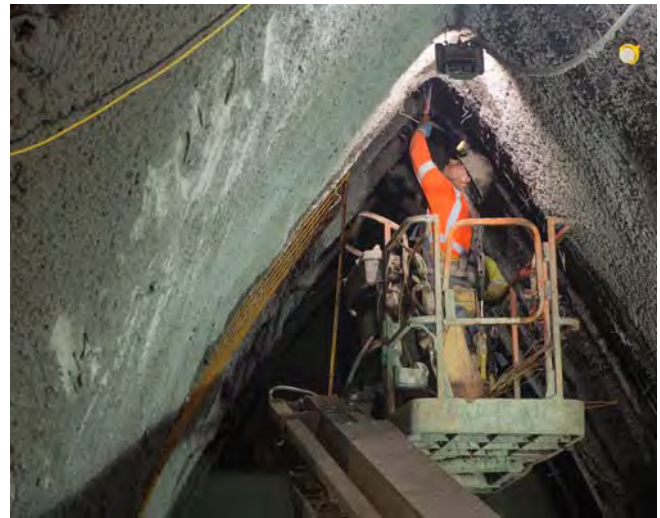
This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

Current Work Status

- Head house- excavated to Temp Level 4.0 Struts; install Walers and Struts Level 4
- Cross Cut Cavern: Begin tunneling under Stockton Street
- Incidental street work, monitoring, surveying
- North Emergency Egress Shaft – excavation continued late-May

Work Expected Next Month

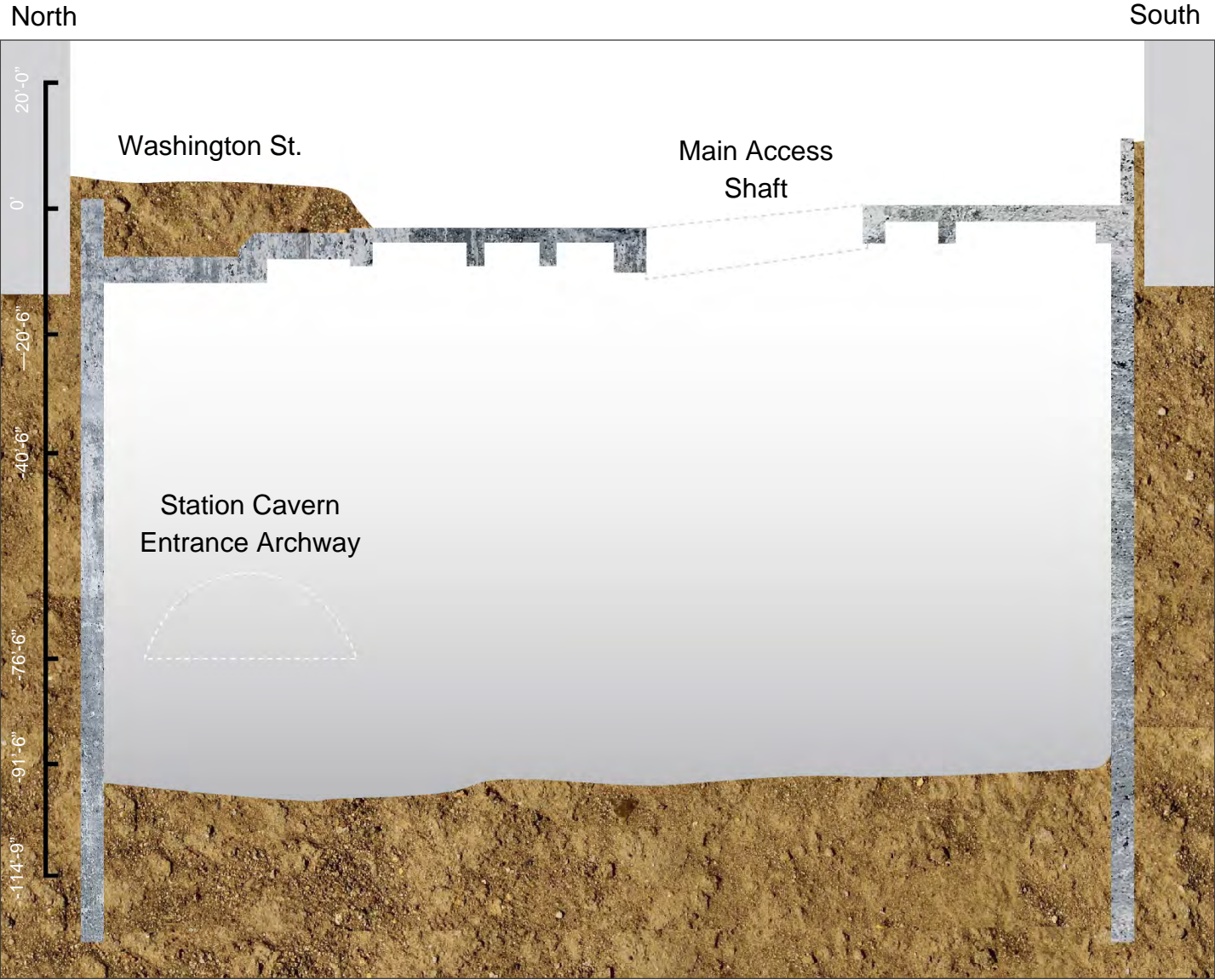
- Crosscut Cavern: continue tunneling under Stockton Street
- Compensation grouting may take place
- Head house – No work until Crosscut Cavern top headings are completed



Three Month Look Ahead

- Head house: Construct Level 3 composite wall, complete Temp level 5.0 Struts, Complete Level 6 excavation and install Level 6 Struts
- Compensation grouting on as-needed basis
- Crosscut Cavern: Complete Cross Cut Cavern excavation and primary lining; Begin Platform Cavern excavation

Station Excavation and Construction Progress Section

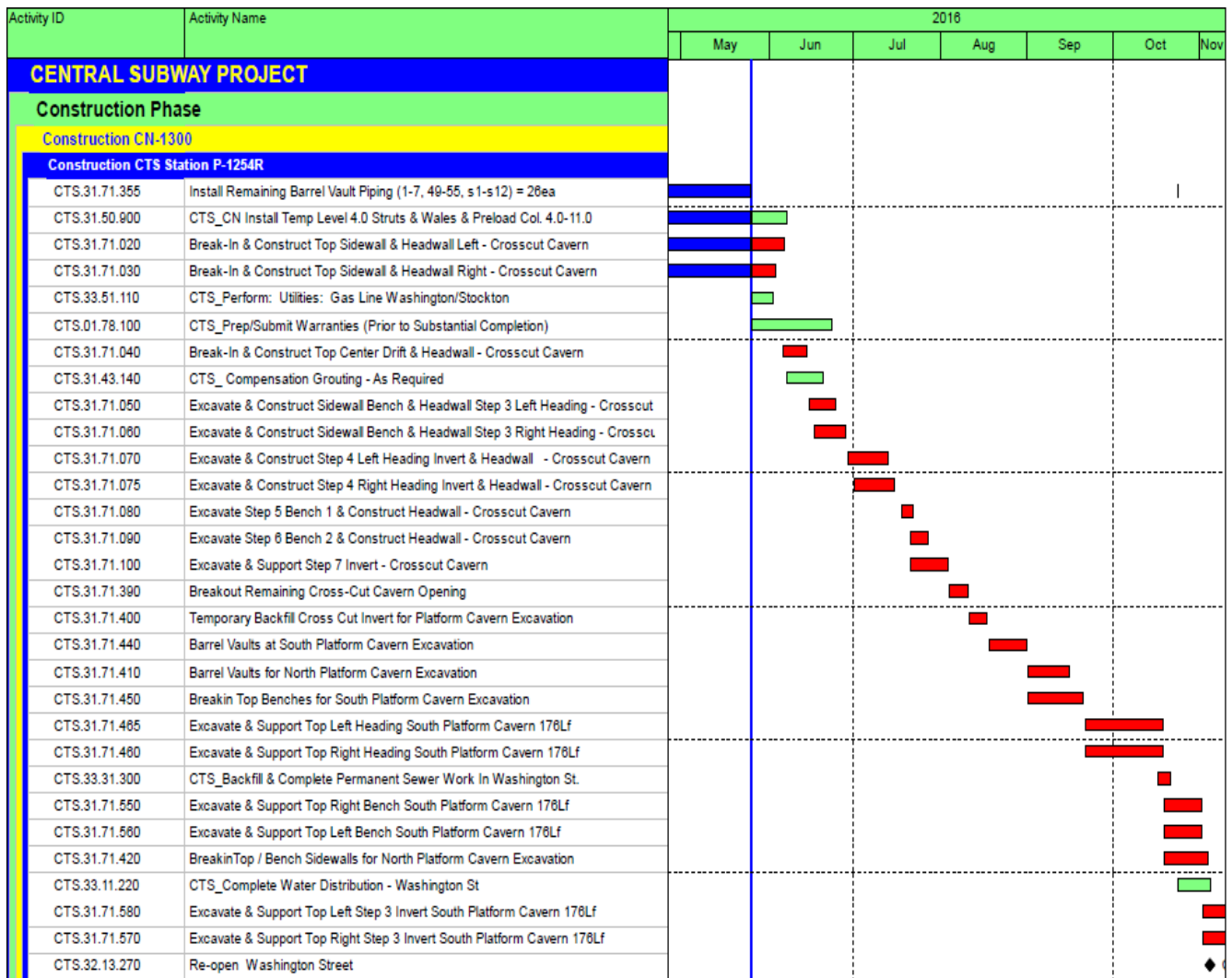


Chinatown Station Construction Status - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$247,567,810
Modifications to Date:	\$2,677,458
Current Contract Value:	\$250,245,268

Budget/Expenditures	
Current Budget	\$252,492,810
Expenditures to Date	\$99,722,517

CTS Three Month Schedule



Schedule: Contract 1300 May 2016 Update

Union Square/Market Street Station

Contract 1300 Work Package 1253

Description of Work

This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

Current Status This Month

- Stockton Street closure between Geary and Ellis and there is no Southbound lane on Stockton between Post and Geary; Ellis Street one lane
- North Concourse: Chipped vertical drain slots and chipped piles for shotcrete leveling course. Installing horizontal drain pipes and welded wire fabric. Installed 10 compensation grout pipes
- Platform Station: Began excavating and chipping piles for roof deck 10-5B. Continued excavation under roof deck. Drilled and installed compensation grout pipes and commenced preconditioning
- South Concourse: Excavate/grade for concourse invert slab, chip/prepare piles for stub beams and vertical drain slot, fine grade/install base and slab drain pipes, form and pour mud slab. Install waterproofing
- Ellis Annex: Remove and replace seismic joint, water test seismic joint, install waterproofing, grout protection course and lightweight concrete
- UMS Garage: Continue demolition of 17-Line wall between USG and North Concourse. Continue micropile installation on the Geary Street Wall. Continue FRP B-line wall



- Ellis Annex: Remove and replace seismic joint, install steel plates, water test seismic joint, install waterproofing, grout protection course and lightweight concrete
- UMS Garage: Continue demolition of 17-Line wall between USG and North Concourse. Complete demolition of garage floor slab and complete micropile installation. Complete FRP B-line wall

Work Expected Next Month

- Restore one lane on Stockton Street between Post and Geary Streets. O'Farrell full closure has been requested
- North Concourse: Complete backfill and install paving. Below deck: continue installation of nelson studs and shotcrete leveling course. Complete installation of compensation grout pipes and continue preconditioning
- Platform Station: For roof deck 10-5B: set/weld beams, install waterproofing, install concrete. Continue installing jet grout columns. Continue excavation
- South Concourse: Move jet grout spoils handling to Roof Deck 3B. Chip/prepare piles for stub beams/vertical drain slots. Install pipe, fabric, and shotcrete

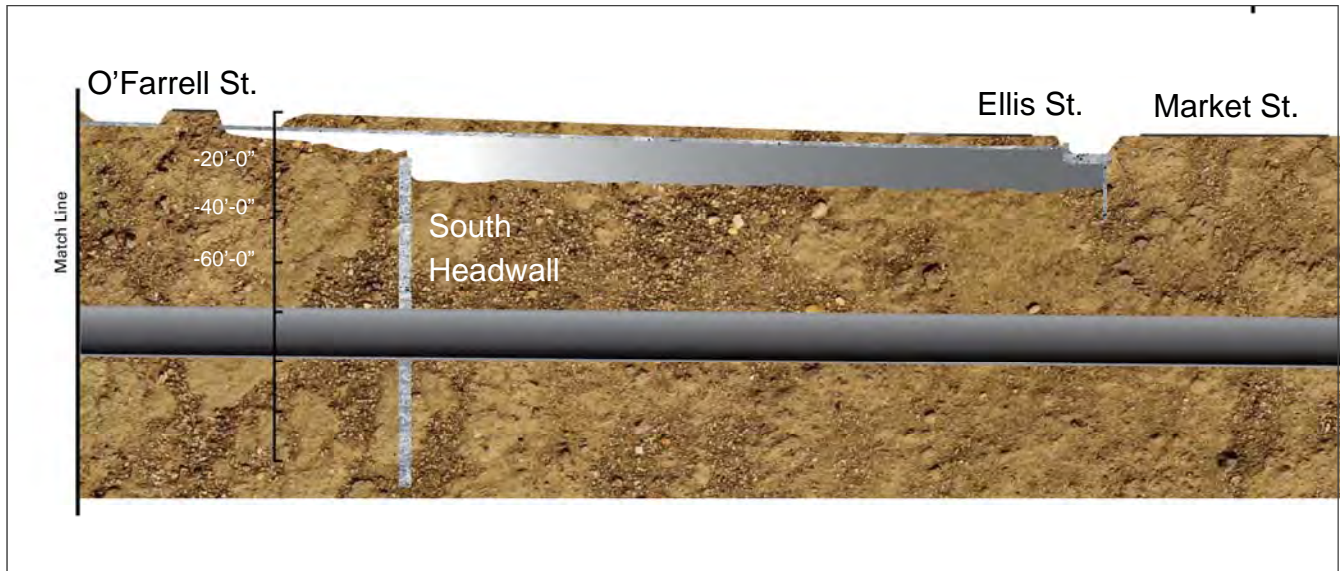
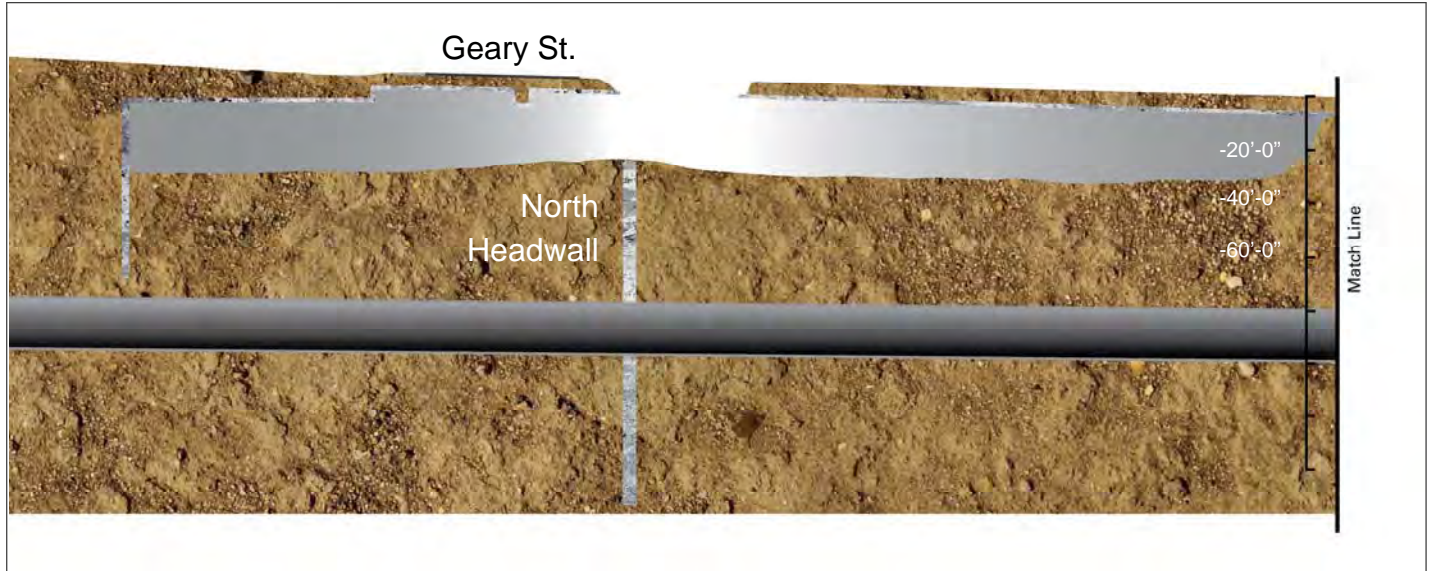
Three Month Look Ahead

- Platform Station: Continue jet grout activities; backfill, install utilities and restore street; dewatering; install permanent wales; excavate bench; install studs, mesh, drain pipe & shotcrete pile walls
- Access Shaft: break through battered piles & frame construction
- North Concourse: MRY conductor installation, continue compensation grout pipe installation and preconditioning, station power installation and gas line installation
- Ellis Street: Pave Stockton/Market/Ellis Street & intersection
- UMS Garage: Complete structural demolition; Complete underpinning and foundation work, commence fan level excavation within garage. Commence new foundations and erection of structural steel

Station Excavation and Construction Progress Section

North

South



Union Square Market Street Station Construction - Continued

Contract Details

Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$294,030,590
Modifications to Date:	\$191,294
Current Contract Value:	\$294,221,884

Budget/Expenditures ▲

Current Budget	\$299,030,590
Expenditures to Date	\$155,544,204

UMS Three Month Schedule

Activity ID	Activity Name	2016						
		May	Jun	Jul	Aug	Sep	Oct	Nov
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction UMS Station P-1253								
Drilled Shafts								
Compensation Grouting								
UMS.31.43.0780	UMS_Install Compensation Grout Tubing - North of Geary - Arthur Beren							
UMS.31.43.0770	UMS_Install Compensation Grout Tubing - North of Geary - Gucci							
UMS.31.43.290.2b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens							
UMS.31.43.720.3a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Nieman Marcu							
UMS.31.43.740.3a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Luis Vitton Sta							
UMS.31.43.740.2a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Luis Vitton Sta							
UMS.31.43.720.2a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Nieman Marcu							
UMS.31.43.720.1a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Nieman Marcu							
UMS.31.43.300.2b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Wome							
UMS.31.43.290.3b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens							
UMS.31.43.300.3b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Wome							
UMS.31.43.300.1b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Wome							
UMS.31.43.740.1a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Luis Vitton No							
UMS.31.32.0070	UMS_Jet Grout Under South Wall Footings - USG							
UMS.31.43.290.4b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens							
UMS.31.43.300.4b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Wome							
UMS.31.43.280.4a	UMS_Install Compensation Grouting Tubes - South of O'Farrell St - Barney's of							
UMS.31.43.310.4a	UMS_Install Compensation Grouting Tubes - South of O'Farrell St - Crate & Bar							
UMS.31.32.0220	UMS_Jet Grout 90 Day Cure Period - USG							
Demolition								
UMS.31.50.0040	UMS_Install Bracing & Shoring for Walls & Slabs							
UMS.02.41.0150	UMS_Demo South Entrance For BART Elevator Powell St Station							
UMS.02.41.430	UMS_Complete Demo South Headwall							
UMS.02.41.0440	UMS_Complete Demo North Headwall							
Roof Deck Excavation,Construction,Restoration								
Excavation & Support								
UMS.03.37.0665	UMS_Install Drain Pipe & Grout Fill Void Between Piles - Roof To Concourse Lev							
UMS.05.12.0690	UMS_Install Permanent Wales - Concourse Level Sta 132+50 to North Headwall							
UMS.31.20.0685	UMS_Excavate Platform Box Bench For Wales & Struts - Concourse Level Sta 13							
UMS.31.41.0240	UMS_Install Sheet Piles @ Access Shaft #2 (O'Farrell)							
UMS.31.20.1385	UMS_Shore Tunnel and ready for break in- Sta 132+50 To North Headwall							
UMS.31.50.0250	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)							
UMS.31.20.0680	UMS_Complete Excavate South Concourse to Invert							
UMS.31.50.0580	UMS_Install Spiling @ Access Shaft #2 & Excavate to Pile Face							

Schedule: Contract 1300 May 2016 Update

Yerba Buena/Moscone Station

Contract 1300 - Work Package 1255



Description of Work

This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

Current Status

- Concourse level concrete pour 3 of 3 completed
- Continue excavation and temporary bracing installation in head house below the Concourse level to allow excavation to Invert level (bottom of station)
- Break through and remove tunnel liner to allow excavation to Invert level within station box
- Continue utility installation on 4th Street north of the north headwall
- Place shotcrete for interior walls in Mezzanine



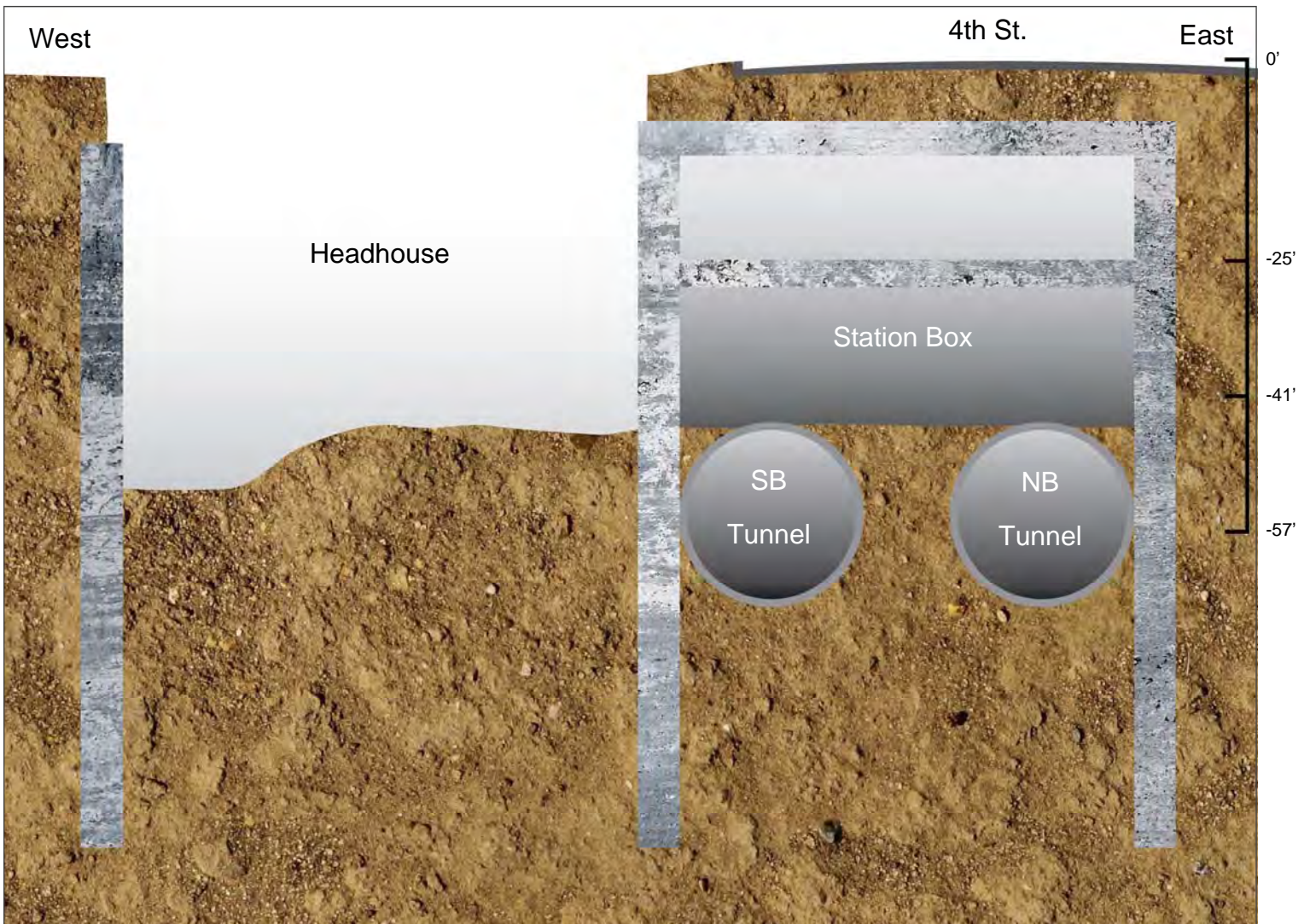
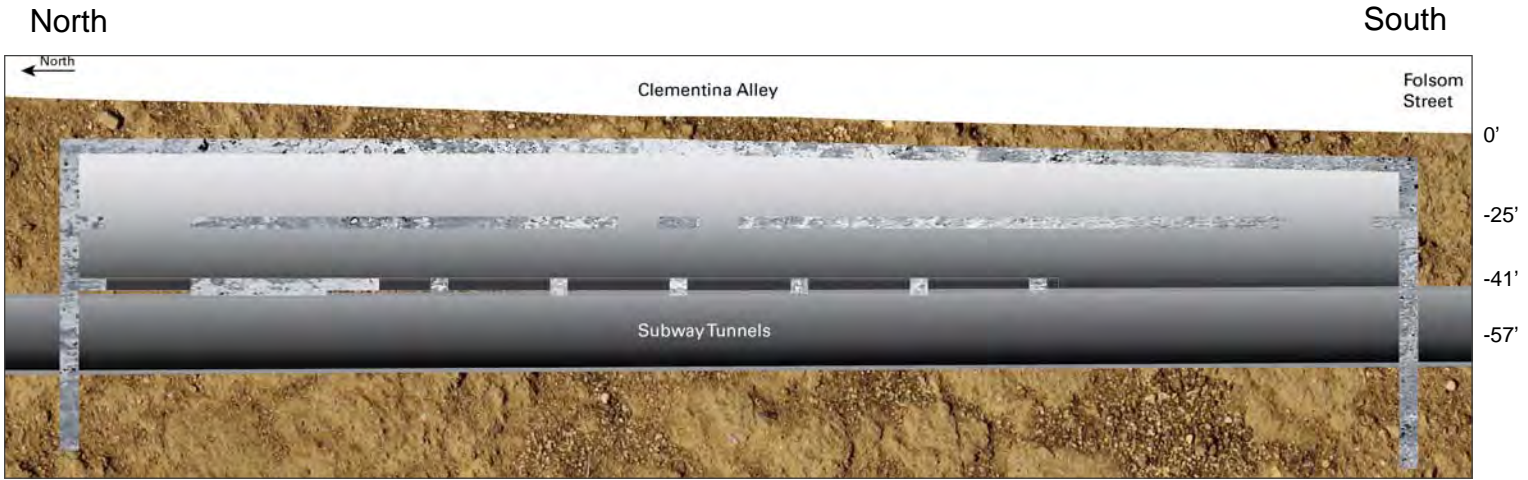
Work Expected Next Month

- Demo and remove tunnel liner segments within Station Box
- Continue excavation and Temporary Strut Bracing Level 6 installation in Station Box and Head House to allow Invert level slab construction
- Continue utility installation on 4th Street north of the north headwall
- Continue placing shotcrete interior walls in Mezzanine and Concourse

Three Month Look Ahead

- Install Station Level 6 Temporary Struts; Excavate station and head house to Invert
- Prepare for installation of Invert Level Slabs in Station Box and Headhouse
- Utility installation at intersection of 4th Street with Howard Street and Folsom Streets
- Continue shotcrete interior walls
- Restore roadway on 4th Street

Station Excavation and Construction Progress Section

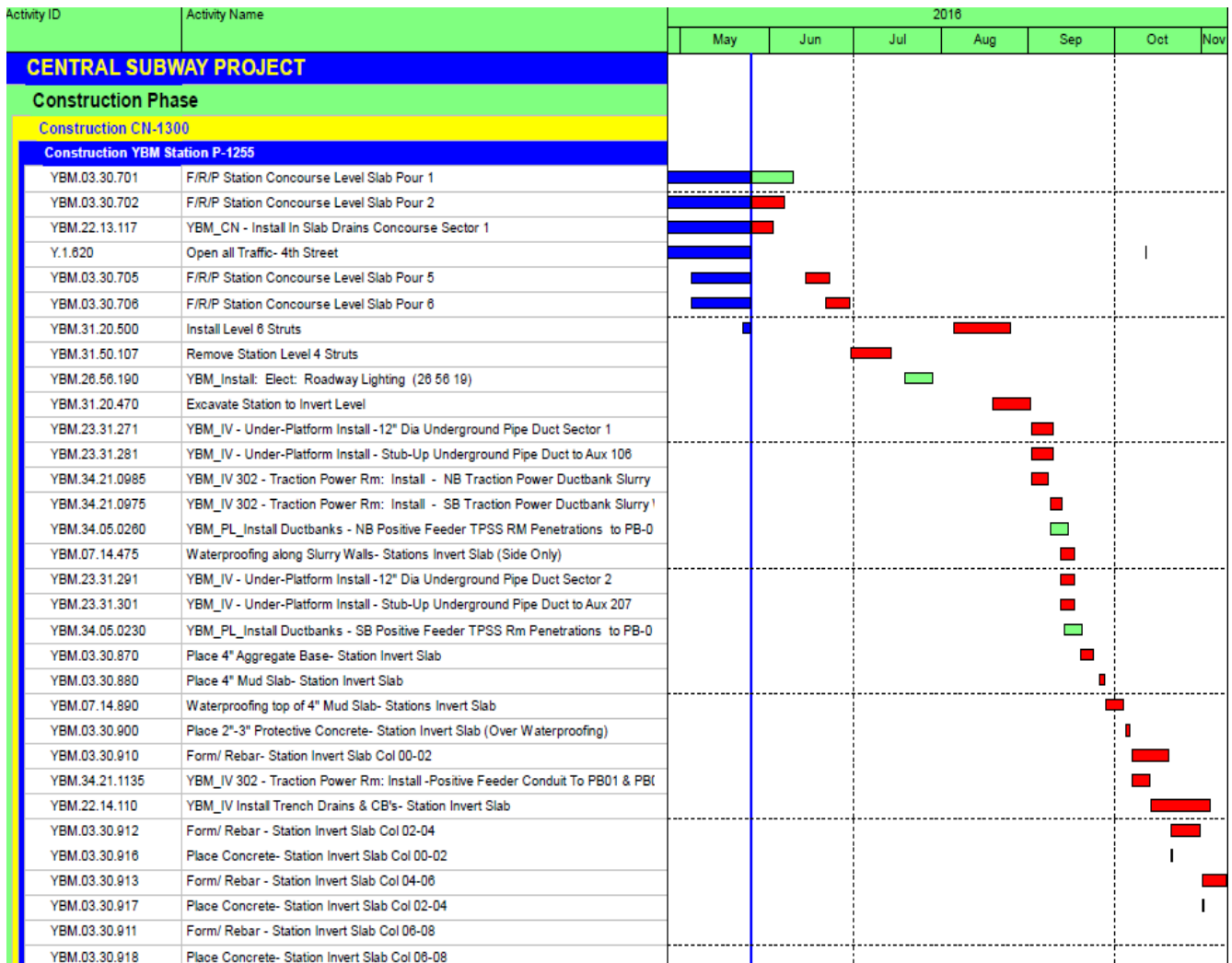


Yerba Buena Moscone Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$158,089,000
Modifications to Date:	(\$1,073,031)
Current Contract Value:	\$157,015,969

Budget/Expenditures ▲	
Current Budget	\$163,089,000
Expenditures to Date	\$86,384,227

YBM Three Month Schedule



Schedule: Contract 1300 May 2016 Update

Systems, Trackwork, & Surface Station

Contract 1300 - Work Package 1256

Description of Work

This Work Package is to construct one Surface Station. Includes light rail track and systems, track invert, track safety walkways; light rail track and systems constructed on the 2,000 foot surface for the alignment from the tunnel portal, south to the tie-in to the existing Muni T-Line at Fourth and King Streets; and the surface Fourth and Brannan Street (FBS) Station.

Current Status

- Continue Muni ductbank installation
- Continue 78" sewer rehabilitation
- Continue 36" sewer force main
- Continue Auxiliary Water Supply System (AWSS) installation
- Continue water line work
- Continue OCS pole foundation installation
- Continue tunnel drainage system installation
- Continue tunnel invert slab work



Work Expected Next Month

- Continue 78" sewer rehabilitation
- Continue MRY ductbank and vault installation
- Continue 36" sewer force main
- Continue AWSS installation
- Continue waterline installation
- Continue OCS pole foundation installation
- Continue tunnel drainage system installation
- Continue tunnel invert slab work

Three Month Look Ahead

- Waterline installation
- AWSS installation
- Muni ductbank installation and vault installation
- 36" sewer force main installation
- 78" sewer rehabilitation
- OCS pole foundation installation
- Tunnel drainage system installation
- Tunnel invert slab construction
- Tunnel walkway construction

Systems, Trackwork, & Surface Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$139,989,000
Modifications to Date:	\$1,463,954
Current Contract Value:	\$141,452,954

Budget/Expenditures	
Current Budget	\$144,989,000
Expenditures to Date	\$39,228,819

Systems, Track and Surface Station Three Month Schedule

Activity ID	Activity Name	2016						
		May	Jun	Jul	Aug	Sep	Oct	Nov
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction STS P-1256								
STS.33.11.210	STS_Install: Utilities: Auxiliary Water Supply 12" Main 4th St (Through Townsend							
STS.26.05.120	STS_Install: Utilities: 230Kv Electrical Transmission Casing - Assist PG&E - 4th							
STS.33.11.170	STS_Install: Utilities: Auxiliary Water Supply 12" Main 4th St (Through Brannan St							
STS.33.51.150	STS_Pothole: Utilities: Pothole for Gas Distribution							
STS.33.31.630	Sewer Manhole relocation at King St/ 4th Street							
STS.33.31.420	STS_Install New CB's Manhole, 10" & 15" Sewer Piping @ 4th St/Townsend - We							
STS.33.11.340	STS_Install: Utilities: Track Drainage- 4th St (Brannan St To Bluxome St)							
STS.33.51.115	STS_PG&E Design Detail Period: Utilities: Gas Distribution 6" Main/Casing - 4th							
STS.33.11.350	STS_Install: Utilities: Track Drainage- 4th St (Bluxome St To Townsend St)							
STS.33.31.400	STS_Install New 27" Sewer Pipe/Casing Connecting Offset Manhole To East MH @							
STS.33.31.340	STS_Install New Sewer Laterals & Sleeves East Side 4th Street - Brannan to Blux							
STS.33.31.445	Install New 48" Gravity Sewer Main Manhole @ 4th/Welsh St							
STS.33.31.410	STS_Install New CB's, 10" & 24" Sewer Piping @ 4th St/Townsend - East Side							
STS.33.31.360	STS_Install New Sewer Laterals & Sleeves East Side 4th Street - Bluxome To Tow							
STS.33.31.450	Install New 48" Gravity Sewer Main - Bryant St To Welsh St.							
STS.33.31.470	Install New 48" Gravity Sewer Main Manhole @ 4th/Freelon St							
STS.33.11.270	STS_Install: Utilities: Sewer: Casing for 10" Force Main - 4th St Sta @ Brannan S							
STS.26.05.0290	STS_Install: Tunnel Electrical - Unistrut For Conduit & Signal Supports - NB Porta							
STS.26.05.0530	STS_Install: Tunnel Electrical - Unistrut For Conduit & Signal Supports - SB Porta							
STS.33.31.260	STS_Install New 18" Sewer Lateral In Welsh St To Future 48" Manhole							
STS.33.31.390	STS_Install New Sewer Manhole @ 4th St/Townsend - East Side							
STS.33.31.430	STS_Install New Sewer Laterals & Sleeves West Side 4th Street - Townsend To K							
STS.28.20.1790	STS_Install: Tunnel Electrical - CCTV Cameras - SB Portal To Moscone							
STS.34.42.0600	STS_Install: Train Control - Train Control Signals - SB Portal to Moscone							
STS.34.42.2310	STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone							
STS.26.05.0560	STS_Install: Tunnel Electrical - Telephone Conduit - & JB's SB Portal To Moscon							
STS.27.32.0610	STS_Install: Tunnel Electrical - Radiax Conduit - & JB's SB Portal To Moscone							
STS.26.05.0550	STS_Install: Tunnel Electrical - Electrical Power Conduit & JB's - SB Portal To Mo							
STS.26.05.0360	STS_Install: Tunnel Electrical - Electrical Power Conduit & JB's - NB Portal To Mo							
STS.28.20.0570	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Portal To Moscone							
STS.26.05.0405	STS_Install: Tunnel Electrical - Traction Power Conduit - NB Portal to Moscone							
STS.26.05.0640	STS_Install: Tunnel Electrical - Traction Power Conduit - SB Portal to Moscone							
STS.33.31.440	STS_Install New Sewer Laterals & Sleeves East Side 4th Street - Townsend To Ki							
STS.33.31.120	Install New 36" Force Main Sewer @ 4th/Bryant							
STS.33.31.460	Install New 48" Gravity Sewer Main - Welsh St. To Freelon St							
STS.26.05.0630	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Portal To M							

Schedule: Contract 1300 May 2016 Update

Program Components

Community Outreach

Outreach public information, events and presentations for May 2016 include:

Preparation and dissemination of construction notices

Hosted Community Advisory Group (CAG) meeting on May 19, 2016

Provide updates to FTA quarterly

Participated in special community meeting along with Sustainable Streets to provide information and address concerns along STS portion of alignment

Outreach in Support of Mitigation and Monitoring

Team members conducted weekly progress meetings to address stakeholder concerns

Outreach and communication efforts continue in Chinatown, Union Square, and SOMA. In particular, meetings held with stakeholders in Chinatown to address mitigation of night noise

Draft Purchase Order for video camera procurement

Weekly photo documentation of project work and editing

Weekly construction update emails sent to list of approximately 700 residents and stakeholders

Distributed monthly construction update to STS and CTS neighborhood; CTS flier are bi-lingual

Media Coverage

Central Subway Media Coverage			
Date	Title (with link to story)	Source	Reporter/Writer
5/12/16	Muni to Start Construction on Long-Delayed T Third Loop	Biz Journal	Chris Rauber

Quality Assurance

Quality Assurance monthly activity of oversight, surveillance, audits, proactive feedback and QA records actively involves the Project construction management staff, the resident engineers, the prime construction contractor and their subcontractors.

Stations and Systems Contract CN1300 Quality Assurance Monitoring – On Going/As Reported Previously

- UMS roof beam to pile WF installation – Continued Inspection/acceptance/documentation by Smith Emery CWI's of all welds associated with the ongoing Installation of steel
- UMS and YBM Water Proofing Subcontractor – substrate preparation and application inspection/acceptance of work performed by Waterproofing Experts by RDH continues for the remaining roof placements
- TPC QC Daily Inspection Reports posted to CM13 which includes TPC's Specialty Subcontractor's QC checklists and associated documentation and Smith Emery Inspection Reports; TPC's Subcontractor that provides laboratory and Inspection Services – including Special Inspections required for the City of San Francisco's Department of Building Inspection (DBI) for all permitted Work
- Preparatory, Initial and Additional Initial Phase Meetings continue as schedule and circumstances/issues arise
- Instrumentation/Monitoring and Construction Management Task Force (CMTF) Meetings (daily at 8:30 am) and the Sequential Excavation Method (SEM) Meetings (daily at 9:00 am)
- Bi-Weekly Quality Task Force (QTF) Meetings – ongoing dialog regarding identification and mitigation of in-process potentially unsatisfactory work, generation of CNCR and other items related to TPC's QC efforts in implementing TPC's approved Quality Control Program (QCP)
- Weekly Work Package Progress Meetings for STS, YBM, UMS and CTS

Document comment and review:

- Contractor's submittals, e.g., review of welding, concrete and other Quality related submittals/comments as requested to support the RE's and CM, and RFIs related to quality and welding
- QA Staff continues random/spot checks of the 1300 Contractor's Field Testing lab results; items requiring further action/investigation (missing or inconsistent data, compressive strength results that appear to have a very broad range of values and such) are brought to the attention of the Contractor

QA Issues:

- TPC performing work prior to receipt of approval status of required submittals with/without knowledge of TPC QC

Quality Assurance - Continued

QA Concerns:

- TPC performing work prior to receipt of approval status of required submittals
- Assurance that geometry and position of shotcrete elements are as required
- Installation/preconditioning of compensation grouting Tube-a-manchette (TAMs) at the Arthur Berens/Dior Building (216 and 218 Stockton Street)

Other Program QA Practices Implemented

- Close-out of Corrective Action Requests: Close outs continued from Quality Assurance staff's Audits, Surveillances and PMOC Quarterly Reviews. The status is tracked in the Corrective Action Log that is provided to the project team and the FTA PMOC
- As report previously, Quality Assurance Surveillance QAS 072, Project Record Documentation (AS-Builts) was conducted, posted to CM13 and findings provided via letter to TPC for their action regarding discrepancies with the Contract Document requirements. The follow-up Surveillance was conducted and the associated report will be completed and posted to CM 13
- Quality Assurance Audit Report QAA 026, Implementation of TPC's Quality Control Program (QCP) is being completed

Risk Management

Risk Mitigation Management Meeting No. 82 was held on May 5, 2016. The Risk Assessment Committee reviewed and discussed Risks that include Construction Risks with ratings above 6; one remaining Requirement Risk, Active Construction Risks rated below 6 and, any New Risk requiring Assessment and Mitigations strategy.

Quality Assurance - Continued



Program Safety & Security

The San Francisco Municipal Transportation Agency is committed to the highest practical level of safety and security standards and practices in the public transit industry. The Safety and Security Management Plan (SSMP) components are reported on below as appropriate including, Safety and Security Committee, the Fire Life Safety and Security Committee the Construction Conformance Verification and Documentation and Contractor Safety and Security.

Project Management/Construction Management (PMCM) Team

Safety bulletin boards have subjects covering the complacency and daily job briefings.

Safety Summary for the 1300 Stations Systems Track Construction Package

During the month of May, safety work on the 1300 contract progressed as follows:

STS had no recordable or first aid incidents. Work on the invert has begun and is moving along. Other utilities in the street along 4th Street continues.

At YBM, no injuries or incidents occurred. The contractor has started to pour the lower level of the station. Good ventilation exists. An elevator has been installed to access the lower levels.

UMS had no injuries in May. Layne continued with jet grouting at street level and compensation grouting underground. TPC started to prepare for the installation of the struts and whalers.

CTS had one recordable. The recordable accident to a Frontier Kemper workers. He strained his back. No details are available yet. Excavation of the two drifts continues. The monthly inspection found extinguishers were discharged and not refilled.

Table 1300 Stations Construction Safety Record

Table 1300 below summarizes the Month to Date and Project to Date for the Stations, Systems and Track Construction contractor and subcontractors.

Next Month Look Ahead

1300 Contract

1. AT CTS, Frontier-Kemper (FK) started the excavation. Ventilation clarifications are being worked on.
2. At UMS, work on the station roof continues. Once the struts and whalers are installed, more excavation will take place.

Program Safety & Security - continued

3. AT YBM, we will continue to watch the concrete placement on the platform level in the station. We will also be watching work on the upper levels of the station as well.
4. At STS, work has started in the tunnels. Invert work in the tunnels has started. TPC is trying to accelerate this work and we will be watching this closely.

Project Safety Record - Contract 1300

SAFETY GOALS

Through Month End - May 2016

OSHA Recordable Accidents, <3.4 Lost Time Cases, <1.6
--

JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	3	1	4	0.70
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	3	1	4	0.70
Man Hours Worked Through M/E May 2016	537,920	599,676	1,137,596	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	0	1	1	0.77
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	0	0	1	0.77
Man Hours Worked Through M/E May 2016	136,205	122,831	259,035	

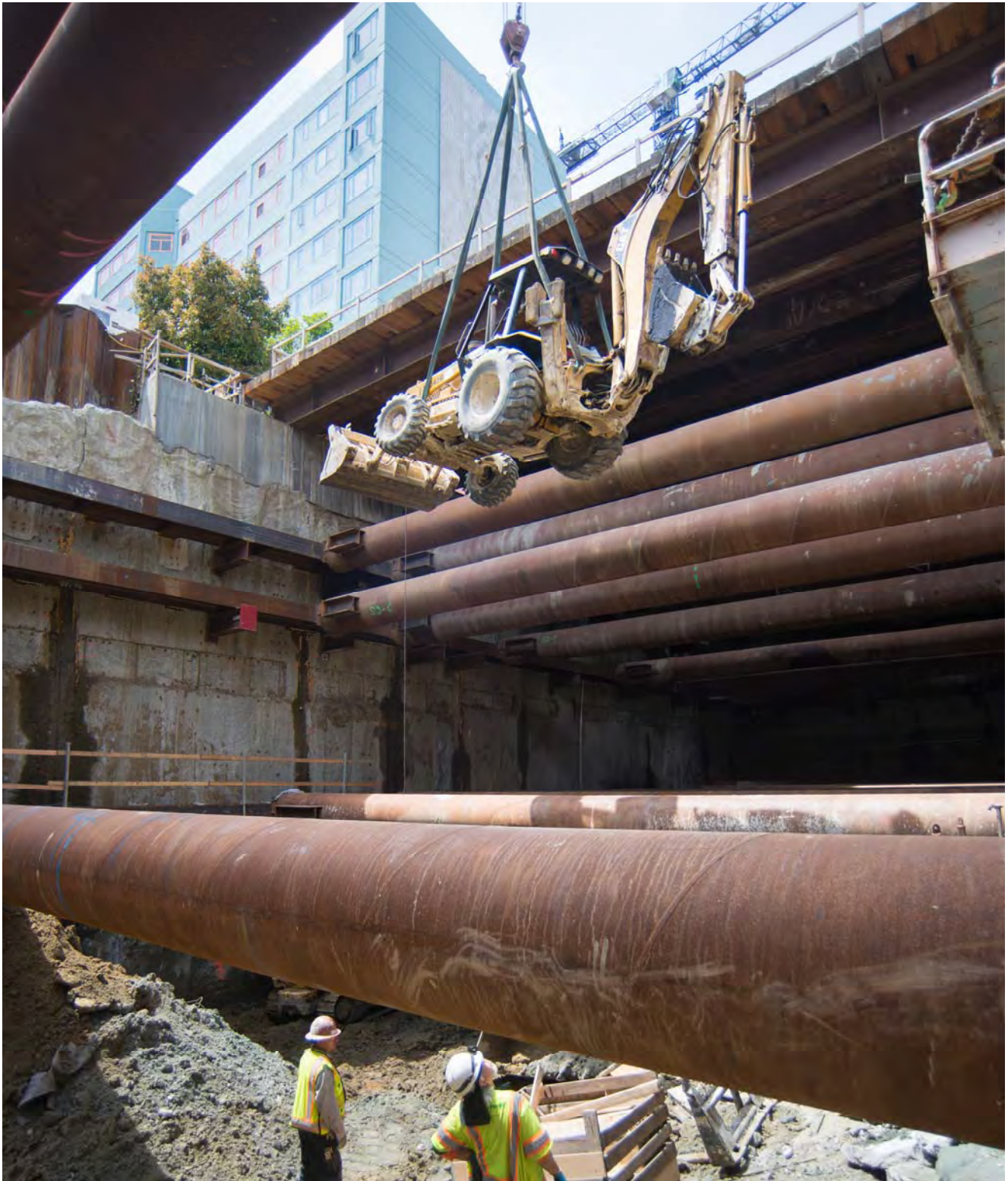
* Rate is calculated based on number of incidents divided by total number of man hours worked multiplied by 200,000 man hours.

OSHA Recordable Accidents - 2008 Construction Industry Rate for Highway, Street, and Bridge Construction = 3.9

*Classifications change at a later date due to additional information becoming available, thereby, changing the numbers on the chart. For example, what was once classified as an accident can become a first aid which leads it to no longer being recordable.

Technical Capacity

No Project positions are currently open or unfilled.



A backhoe is slowly lowered into the YBM headhouse, with workers ready to place it below.

Staffing

The Central Subway Staffing Table shows Planned and Actual full-time equivalent staff (FTEs) working on the Program by organizational function and responsibility.

	Mar-2016		Apr-2016		May-2016	
	Planned	Actual	Planned	Actual	Planned	Actual
Project Management						
Program Management	6.60	6.00	6.60	6.00	6.60	6.00
Quality Assurance	1.80	2.30	1.80	2.30	1.80	2.30
Contract Administration	1.40	1.40	1.40	1.40	1.40	1.40
Community Outreach	5.50	5.50	5.50	5.50	5.50	4.50
Finance	2.00	2.00	2.00	2.00	2.00	2.00
Project Controls	4.80	5.80	4.80	5.80	4.80	5.80
Subtotal	22.10	23.00	22.10	23.00	22.10	22.00
Construction Management						
CM - CN 1252	1.00	1.00	1.00	1.00	1.00	1.00
CM - CN 1300	30.00	31.00	30.00	31.00	30.00	31.00
Design Support - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CN 1300	12.40	12.40	12.40	12.40	12.40	12.40
Subtotal	43.40	44.40	43.40	44.40	43.40	44.40
Start Up						
Start Up / Safety & Security	3.00	2.10	3.00	2.10	3.00	2.10
Subtotal	3.00	2.10	3.00	2.10	3.00	2.10
Total	68.50	69.50	68.50	69.50	68.50	68.50

Third-Party Agreements

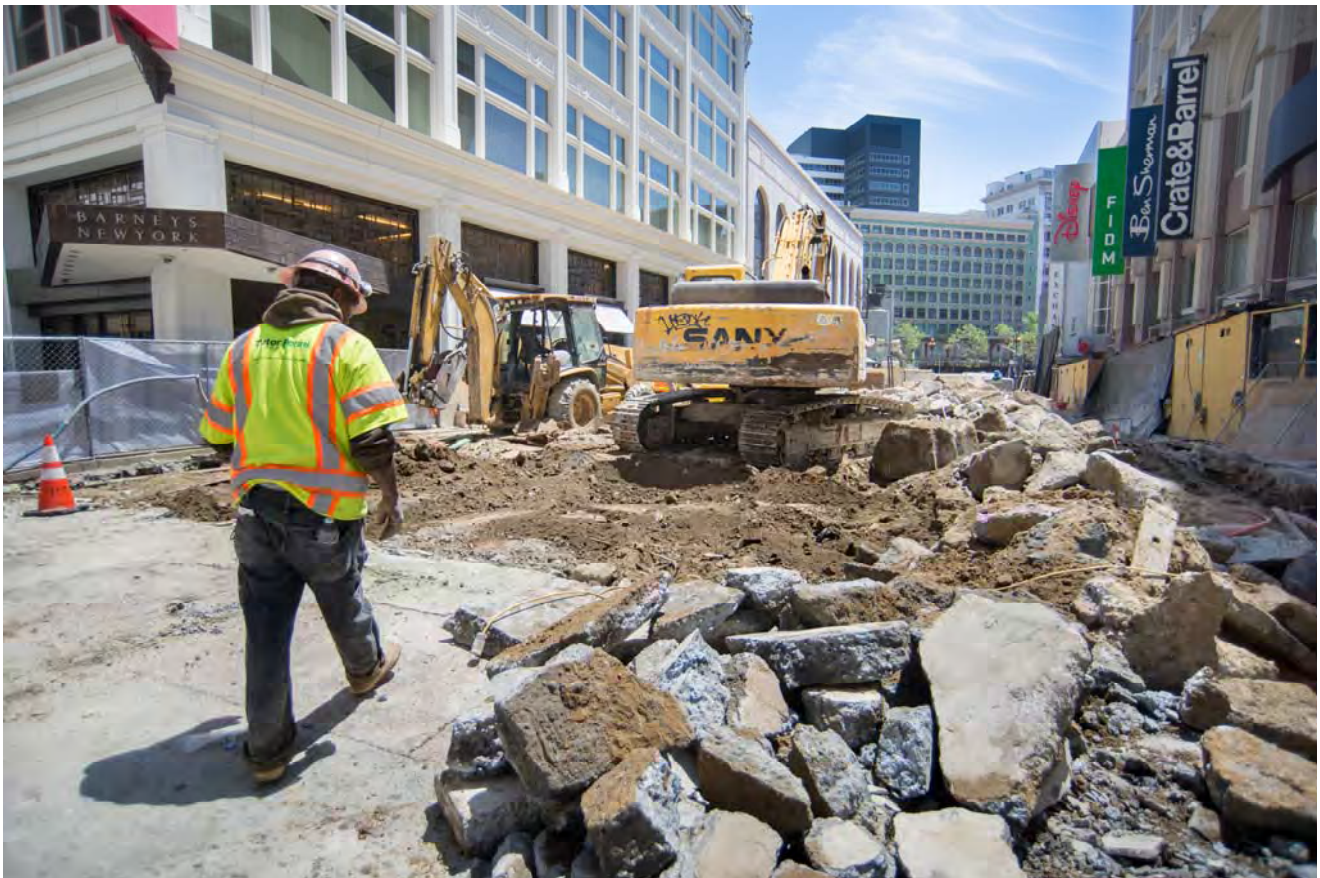
No activity in this reporting month.

LRV Procurement

SFMTA has initiated a new light rail vehicle procurement to acquire up to 260 vehicles over the next 15 years. The scope includes the design, manufacture, delivery and testing of up to 260 light rail vehicles together with associated services, spare parts, special tools, training and documentation. This includes an initial delivery of 24 cars, scheduled for delivery in 2018 to supplement the fleet when the SFMTA's Third Street Phase 2 - Central Subway Project extension opens.

First article inspections of subsystems continue; train control and passenger information systems were recently conducted. Truck, steps and coupler are scheduled in the next month. Production of the first carbody structure is complete. Assembly continues with flooring, side cladding, and the front end mask being installed. Truck frames for the first car are approaching completion.

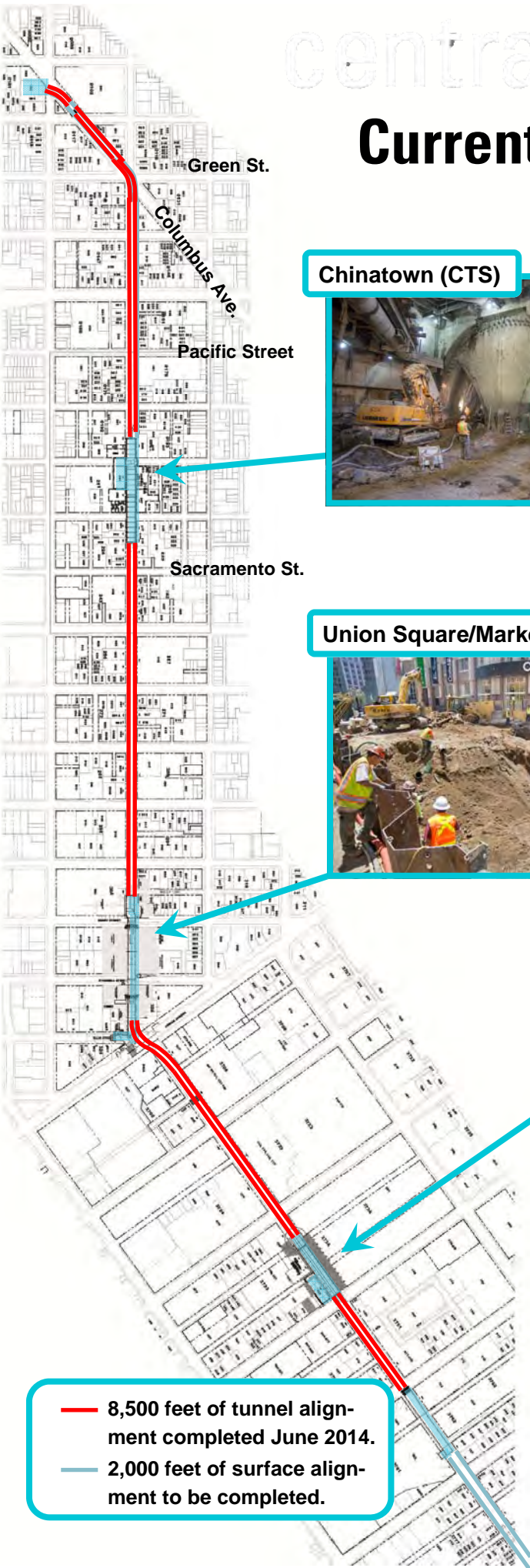
LRV Procurement contract working through integration challenges with parallel projects such as radio replacement project and fare box replacement project.



The south side of the intersection at O'Farrell and Stockton is being prepared for excavation and eventual station roof deck installation. Pieces of roadway are being removed and sorted prior to site excavation.

central T subway

Current Construction Activity



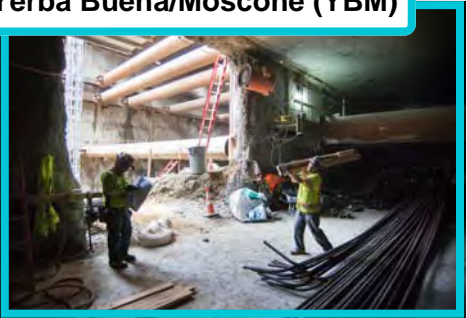
Chinatown (CTS)



Union Square/Market Street (UMS)



Yerba Buena/Moscone (YBM)



4th St. Surface Track, Systems (STS)



— 8,500 feet of tunnel alignment completed June 2014.
— 2,000 feet of surface alignment to be completed.





Workers pause before installing steel mesh and spraying shotcrete to reinforce the freshly-excavated walls of the left and right side drifts.



Shotcrete spraying inside the left side drift. These smaller excavation caverns are necessary before creating larger voids, so as to prevent potential ground movement.



Newly-installed ventilation fans and ductwork on the east side of the Chinatown head-house site.

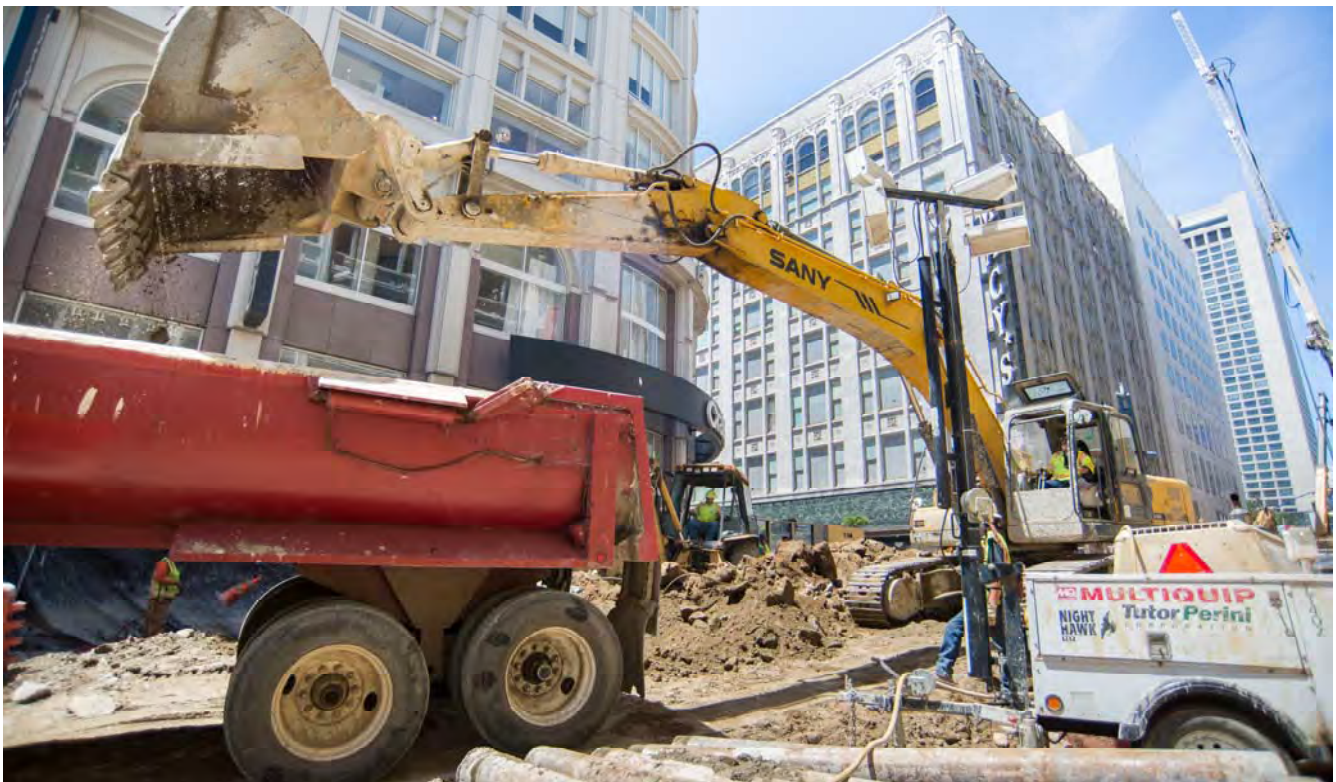


New banners indicating nearby businesses have been installed along the construction fence for the north access shaft between Washington and Jackson on Stockton.

UMS



On the south side of the Stockton and O'Farrell intersection work is being done to prepare for the installation of another station roof deck panel.



Large pieces of debris are sorted and dumped into a waiting dump truck, pulled up the block from an entrance at Ellis.



Vertical beams span the west wall inside the north concourse, where demolition work to remove a wall inside the Union Square Garage is ongoing just behind them.



A worker uses a cutting torch to cut sections of rebar away from concrete rubble inside the southeast corner of the Union Square Garage, where the future north station entrance will be located.



A man checks plans at the access portal from the headhouse into the station box while an associate carries concrete form pieces to be installed precisely where needed.

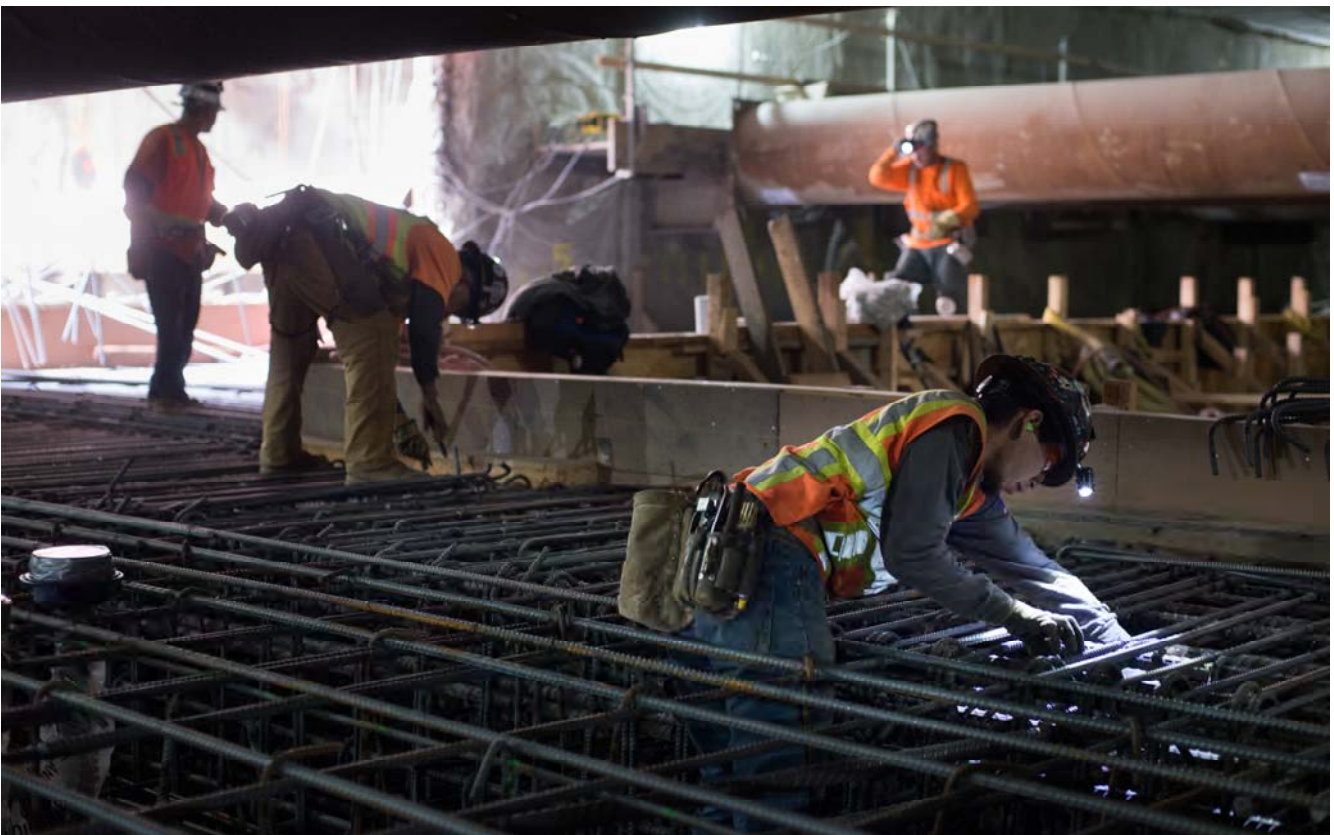


The contractor has installed an elevator to carry workers and equipment to and from the work sites underground.

YBM - continued



Workers lay down cribbing underneath the large steel beam, as it's lowered into the head-house for installation.



Men use headlamps to aid detailed rebar installation work for the mezzanine floor slab inside the station box.

STS



When needed, workers use shovels to carefully unearth utilities which will be upgraded and reinforced. Here, utility laterals are being unearthed following sewer upgrade work.



Sections of pipe are unloaded from a truck north of Townsend and stacked for installation.

STS—Continued



Workers pump out water from an excavation at 4th and Bryant where utilities are being upgraded.



Workers donning safety harnesses prepare to do trench work north of Bluxome alley, where utility laterals are being reinforced and upgraded.

Appendix A

DETAIL COST REPORTS

1. PROJECT COST

The Current Cost Estimate (CCE) for the Central Subway Project is **\$1.578 billion** in year of expenditure dollars (\$YOE). This total project cost is shown at the top of Report 7.1, Program Project Budget. This capital cost projection incorporates allocated and unallocated contingencies to cover the risks associated with the project completion.

Total net incurred costs for the project are \$941.29 million, a \$11.35 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$902.93 million) plus the utilities joint trench Form B Reimbursement payment (\$10.52 million), invoices currently being processed (\$20.07 million) and estimates of outstanding pay requests (\$7.77 million). This incurred amount equals 59.64% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,179.79 million. This represents 75% of the total project budget.

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.1	52	3/31/2014	\$ 26,671.53
CS155.1	53	4/30/2014	\$ 19,500.26
CS155.1	54	5/31/2014	\$ 29,166.76
CS155.1	55	6/30/2014	\$ 22,666.39
CS155.1	56	7/31/2014	\$ 36,602.38
CS155.1	57	8/31/2014	\$ 40,273.52
CS155.1	58	9/30/2014	\$ 37,269.95
CS155.1	59	10/31/2014	\$ 30,018.32
CS155.1	60	11/30/2014	\$ 20,183.22
CS155.1	61	12/31/2014	\$ 18,828.97
CS155.1	62	1/31/2015	\$ 19,921.99
CS155.1	63	2/28/2015	\$ 19,921.99
CS155.1	64	3/31/2015	\$ 15,554.73
CS155.1	65	4/30/2015	\$ 15,550.60
CS155.1*	66	5/31/2015	\$ 2,121.00
CS155.1*	67	6/30/2015	\$ 1,180.00
CS155.1*	68	7/31/2015	\$ 7,137.00
CS155.1*	69	8/31/2015	\$ 1,805.00
CS155.1*	70	9/30/2015	\$ 1,583.00
CS155.1*	71	10/31/2015	\$ 3,186.00
CS155.1*	72	11/30/2015	\$ 203.00
CS155.1*	73	12/31/2015	\$ 7,695.00
CS155.1*	74	1/31/2016	\$ 12,080.00
CS155.1*	75	2/29/2016	\$ 874.00
CS155.1*	76	3/31/2016	\$ 326.00
CS155.1*	77	4/30/2016	\$ 246.00
CS155.1*	78	5/31/2016	\$ 246.00
CS155.2	68	10/31/2015	\$ 307,824.44
CS155.2*	69	11/30/2015	\$ 205,020.00
CS155.2*	70	12/31/2015	\$ 240,756.00

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.2*	71	1/31/2016	\$ 172,443.00
CS155.2*	72	2/29/2016	\$ 192,843.00
CS155.2*	73	3/31/2016	\$ 219,279.00
CS155.2*	74	4/30/2016	\$ 359,299.00
CS155.2*	75	5/31/2016	\$ 359,299.00
CS155.3*	66	9/30/2015	\$ 81,258.00
CS155.3*	67	10/31/2015	\$ 68,106.00
CS155.3*	68	11/30/2015	\$ 190,717.00
CS155.3*	69	12/31/2015	\$ 87,013.00
CS155.3*	70	1/31/2016	\$ 79,274.32
CS155.3*	71	2/29/2016	\$ 66,208.92
CS155.3*	72	3/31/2016	\$ 115,278.31
CS155.3*	73	4/30/2016	\$ 75,115.87
CS155.3*	74	5/31/2016	\$ 85,450.10
Contract 1252	39	4/30/2015	\$ 1,174,889.06
Contract 1252	40	5/31/2015	\$ 236,920.00
Contract 1300	28	4/30/2016	\$ 8,606,974.00
Contract 1300	29	5/31/2016	\$ 9,391,685.00
CS149*	83	12/31/2015	\$ 500,000.00
CS149*	84	1/31/2016	\$ 500,000.00
CS149*	85	2/29/2016	\$ 500,000.00
CS149*	86	3/31/2016	\$ 500,000.00
CS149*	87	4/30/2016	\$ 500,000.00
CS149*	88	5/31/2016	\$ 500,000.00
CS156.1*	62	1/31/2016	\$ 69,532.98
CS156.1*	63	2/29/2016	\$ 68,879.96
CS156.1*	64	3/31/2016	\$ 80,887.66
CS156.1*	65	4/30/2016	\$ 75,702.19
CS156.1*	66	5/31/2016	\$ 74,732.56
other accruals*		5/31/2016	\$ 1,766,960.70

* Estimated Amount

\$ 27,841,355.77

2. CONTINGENCY ALLOCATIONS AND USAGE

The current Total Project Contingency is **\$79.71 million**, which is a \$19.71 million favorable balance against the current Minimum Contingency level of \$60 million. The Contingency Drawdown Curve is shown in Report 7.3. Follows by Report 7.4 Contingency Management Trend Report with the Remaining Contingency after Approved Changes Deducted contingency items in column "i".

In this reporting period, Contract 1252 Tunnel processed two contract modifications in the amount of \$185,913. Contract 1300 Station processed three contract modifications in the

amount of \$251,675 . Refer to Report 7.5 for approved contract modifications and potential changes.

3. BUDGET TRANSFERS

No budget transfers in this reporting period.

4. FORM B

The Utilities Joint Trench Form B Details is listed in the Table A2 below. Total utilities joint trench Form B Reimbursement payment to three construction contracts is \$10.52 million.

TABLE A2: UTILITIES JOINT TRENCH FORM B DETAILS	[A] Mar 2015 BUDGET	[B] EXPENDED TO DATE	Associated Cost Account
1.3.491.07.040.02 - FORM B - CN1250 UTILITY REIMBURSEMENT	(2,275,419)	2,463,325	1.3.081.07.040.02 - 1UTL:SITWORK: UTILITIES & RELOC
1.3.491.08.040.02 - FORM B - CN1251 UTILITY REIMBURSEMENT	(7,618,412)	3,608,217	1.3.082.08.040.02 - 2UTL:SITWORK:UTILITIES&RELOCATE
1.3.491.02.040.02 - FORM B - CN1252 UTILITY REIMBURSEMENT	(254,050)	3,958,658	1.3.083.02.040.02 - TUNN:Sitework:Utilities & Relocate
1.3.491.04.040.02 - FORM B - CTS: CN1300 UTILITY REIMBURSEMENT	(451,703)		
1.3.491.09.040.02 - FORM B - STS: CN1300 UTILITY REIMBURSEMENT	(1,000,000)		
1.3.491.03.040.02 - FORM B - UMS: CN1300 UTILITY REIMBURSEMENT	(528,370)	428,712	1.3.084.03.040.02 - UMS.1253: SITE UTILITIES, UTILITY RELOCA
1.3.491.05.040.02 - FORM B - YBM: CN1300 UTILITY REIMBURSEMENT	(100,000)	56,451	1.3.086.05.040.02 - YBM.1255: SITE UTILITIES, UTILITY RELOCA
TOTAL	(12,227,954)	10,515,363	

5. EARNED VALUE (EV) ANALYSIS

In May 2016 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA May Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

Preliminary May Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,212,596,433
Earned Value:	\$947,153,898
Actual Cost:	\$941,290,172
Schedule Performance Index (SPI):	0.78
Cost Performance Index (CPI):	1.01
Percent Complete:	60%

SFMTA, EV Chart
May 31, 2016 Update

Activity ID	Activity Name	Start	Finish	Performance % Complete	Budgeted Total Cost	Planned Value Cost (PV)	Earned Value Cost (EV)	Actual Total Cost (AC)	CPI	SPV
CENTRAL SUBWAY PROJECT										
		06/03/03A	06/18/21	59.96%	1,578,300,000.14	1,212,596,452.72	947,453,897.80	941,290,171.36	1.01	0.78
	Preliminary/Engineering Phase	06/03/03A	01/07/10A	100%	46,542,061.02	46,542,061.02	46,542,061.02	46,542,061.02	1.00	1.00
	Final Design	01/08/10A	06/17/13A	100%	115,075,987.06	115,075,987.06	115,075,987.06	114,307,464.66	1.01	1.00
	Light Rail Vehicles	04/15/13A	11/09/18	8.25%	26,385,653.00	2,177,131.58	2,177,131.58	2,147,952.36	1.01	1.00
	Real Estate	08/01/08A	05/26/16	80.31%	37,405,895.00	33,179,867.41	30,041,759.16	30,540,100.64	0.98	0.91
	Construction Phase	01/03/10A	06/20/19	56.02%	1,328,140,481.06	1,015,621,385.65	753,316,958.98	747,752,592.68	1.01	0.74
	Construction Support and Costs	01/03/10A	06/20/19	44.82%	198,862,849.06	93,372,551.69	88,580,573.22	89,228,666.68	0.90	0.96
	Construction Utility Contract #1- MOS & Portal CN-12	01/04/10A	08/23/11A	100%	11,968,150.00	11,968,150.00	11,968,150.00	11,968,150.00	1.00	1.00
	Construction Utility Contract #2 - UMS CN-1251	01/12/11A	10/15/12A	100%	20,794,592.00	20,794,592.00	20,794,592.00	20,794,592.00	1.00	1.00
	Construction Tunnels CN-1252	06/08/11A	05/07/16	93.05%	235,913,500.00	251,069,545.65	233,608,894.28	234,881,387.00	0.99	0.93
	Construction CN-1300	06/03/13A	04/02/19	48.15%	858,601,400.00	638,416,556.31	397,364,759.48	390,879,767.00	1.04	0.62
	Unallocated Contingency	01/02/19	06/14/19	0%	24,749,923.00	0.00	0.00	0.00	0.00	0.00
	Project Management	06/14/19	06/18/21	0%	0.00	0.00	0.00	0.00	0.00	0.00

The preliminary Contract 1300 cost shows Earned Value Cost \$16M higher than Actual Cost.

Earned Value Analysis and Definitions

SPI is a measure of schedule efficiency on a project. It is the ratio of earned value (EV) to planned value (PV). A SPI equal to or greater than one indicates more work was completed than planned and a value of less than one indicates less work was completed than planned. A value of less than 0.9 is unfavorable.

CPI is a measure of cost efficiency on a project. It is the ratio of earned value (EV) to actual cost value (AC). A CPI equal to or greater than one indicates a cost under run and a value of less than one indicates a cost overrun. A value of less than 0.9 is unfavorable.

The following earning rules are established for each of the phase:

Cost Element Group	Planned Value (Primavera)	Earned Value (Primavera)	Actual Cost (SFMTA Cost Accounting (SAP))
Prelim. Engineering	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
Final Design	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
Procurement	Planned Delivery Date	Actual Delivery Date	Time Keeping; Vendor Accruals and Invoices
Real Estate	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor/ Material Accruals and Invoices
Construction	Schedule of Work	% Complete* x Budget at Completion (BAC)	Vendor Accruals and Invoices
Sub-Total	Performance Measurement Baseline (PMB)	Total Earned Value	Total Actual Cost
Below the Line	+ Contingency		
Total	Approved Budget		

6. FUNDING SUMMARY

The Funding Available Table below shows the total awarded funds to date vs. the total committed funds from the Project's seven funding sources.

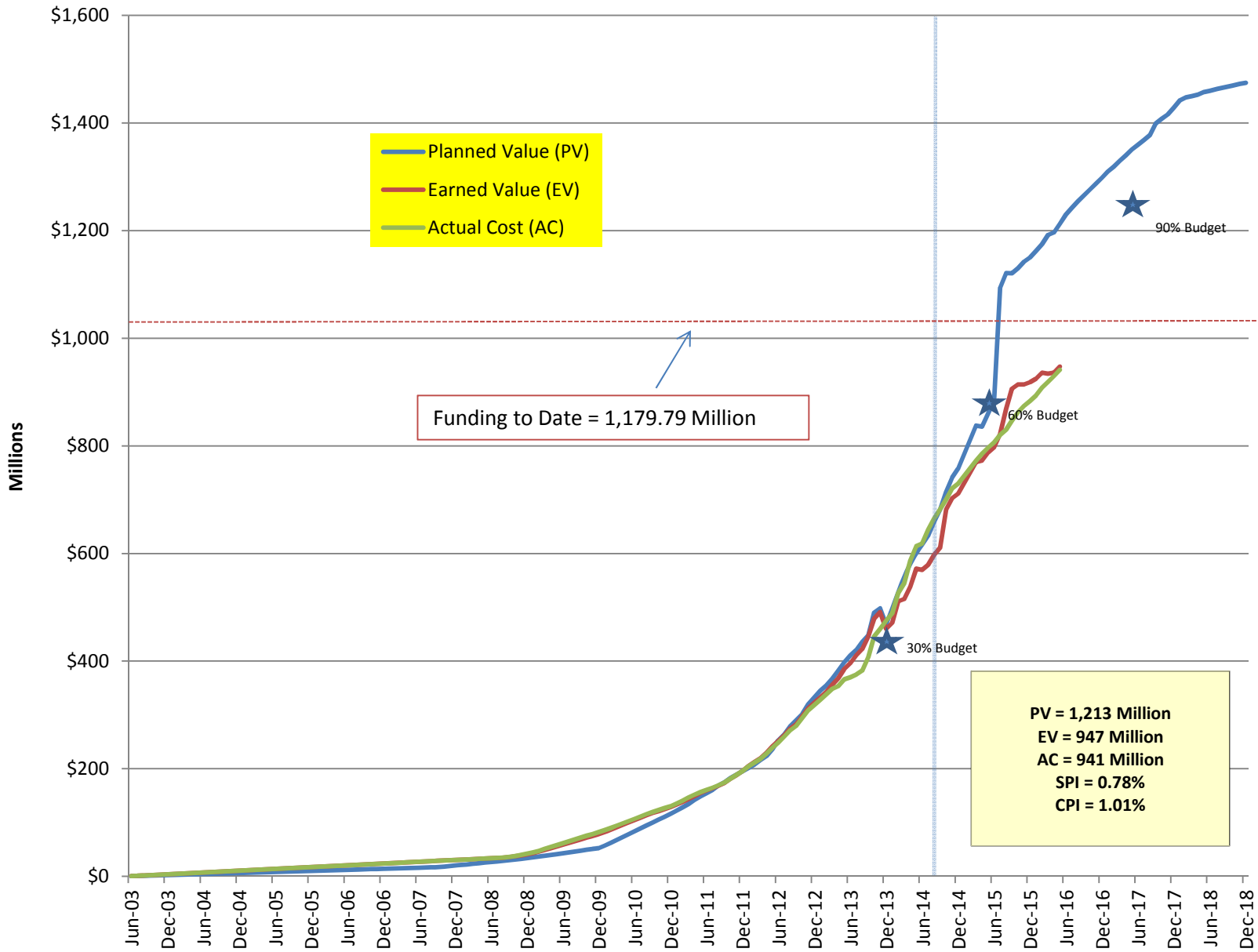
Funding Available Table		
	Funding	
	Committed Funding Sources	Total Awarded Funds to Date
Federal		
Sect. 5309-NS	\$942,200	\$619,196
CMAQ	\$41,025	\$41,025
Federal Subtotal	\$983,225	\$660,221
State		
TCRP	\$14,000	\$14,000
State RIP	\$88,000	\$12,498
Prop. 1B (I-Bond) PTIMSE	\$307,792	\$307,792
Prop. 1A (HSR-Bond)	\$61,308	\$61,308
State Subtotal	\$471,100	\$395,598
Local		
Prop. K	\$123,975	\$123,975
Local Subtotal	\$123,975	\$123,975
CPT 544 Total	\$1,578,300	\$1,179,794

7. LIST OF COST REPORTS

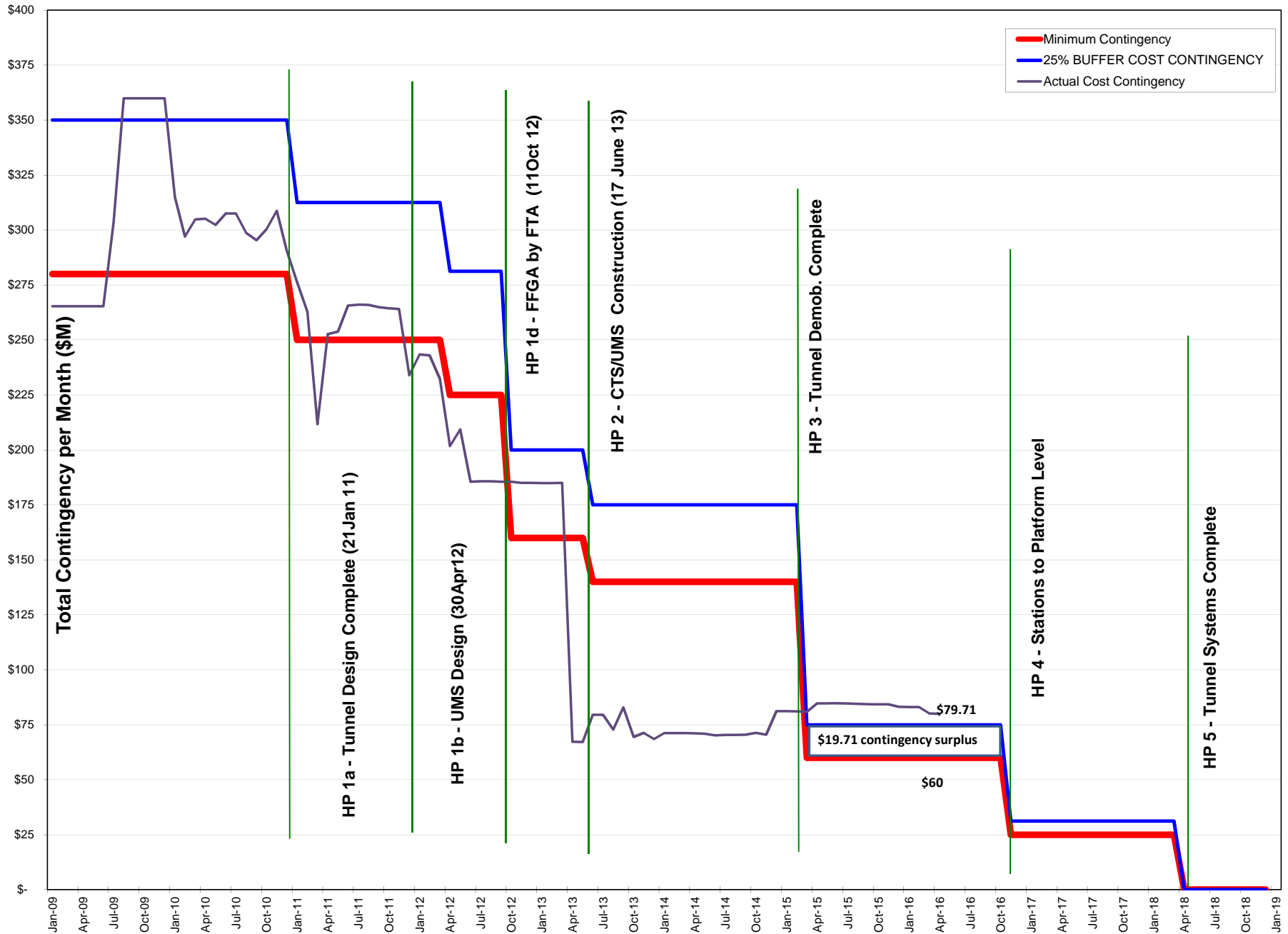
- 7.1 Program Project Budget
- 7.2 Earned Value Cash Flow
- 7.3 Contingency Drawdown Curve
- 7.4 Summary Contingency Management Trend Report
- 7.5 Detail Contingency Usage Report
- 7.6 Budget Revisions: Report sorted by Construction Packages & Soft Costs
- 7.7 Project Budget & Expenditure Report: Sorted by SCC Summary
- 7.8 Budget & Expenditure Report: Sorted by SCC Details
- 7.9 Detail Monthly Expenditure Report: grouped by Project Phase
- 7.10 Cost Report Notes

A. Central Subway Project							
Project	Name	Amount	PM	Funding Source	Reporting	Cost Report	Notes
1	CPT544 Central Subway Project	\$1,578,300,000	J. Funghi	62% Fed, 30% State, 8% Local	yes		1
Total:		\$1,578,300,000					
B. Related SFMTA Capital Improvement Projects							
Project	Name	Amount	PM	Funding Source	Reporting		
2	CPT690 TBM Retrieval Shaft Relocation	\$9,700,000	Funghi/Magary	MTA Operating Funds	no		2
3	CPT718 Chinatown Metro Plaza	\$6,980,000	J. Funghi	Transbay Redevelopment	no		3
4	CPT665 Central Subway Project - Goodwill	\$2,367,750	K. Magary	I-Bond Interest	no		4
5	CPT705 MOH - Broadway/Sansome	\$8,000,000	K. Magary	MTA Operating Funds	no		5
Total:		\$27,047,750					
C. Central Subway Project - Project Offset Credits							
	From	Amount	Index	Notes	Reporting		
1	2009-2016 Utility Co. - Form B Reimbursement	\$12,227,954	--	Construction contracts	yes		6
2	2017-2019 PG&E - Power Feed Reimbursement	\$7,624,540	--	Not yet bill PG&E	yes		7
3	6/26/2013 BART Elevator	\$90,000	68CPT544135B	Not yet rec'd BART Funds	yes		8
4	11/6/2013 Tutor Perini - CAD Files	\$2,500	68CPT5441236	Deposit to Design Index	yes		9
5	1/27/2014 SFPUC - Sewer Main	\$2,925,296	68W251	Certified in Contract 1300	yes		10
6	8/27/2014 SFMTA Traffic Effectiveness Project funded	\$694,651	68W324/686D42	Contract 1252 CMod #40	yes		11
7	9/27/2014 SFPUC - 24" Water Main	\$328,857	68CPT544135A	Contract 1252 CMod #41	yes		12
8	2/15/2015 Chinatown Plaza Construction Estimate	\$75,000	68CPT7181341	Contract 1300 CMod #6	yes		13
9	3/27/2015 SFPUC - 24" Water Main Additional Work	\$112,102	68W409	Contract 1252 CMod #48	yes		14
10	3/15/2016 Support for North Beach Restoration, OCS and Streetlighting	\$155,468	68T7373342D2/D3	Contract 1252 CMod #51	yes		14a
Total:		\$24,236,368					

Earned Value Cash Flow Curve



Cost Contingency Drawdown



COST ELEMENT	CONTRACT COST					CONTINGENCY					BUDGET	VARIANCE	Cost Report Notes	
	ORIGINAL CONTRACT VALUE / September 2013 SUPPLEMENTAL BUDGET	APPROVED CHANGES	CURRENT CONTRACT VALUE	POTENTIAL CHANGES	ESTIMATE AT COMPLETION (EAC)	ORIGINAL CONTINGENCY / Sep 2013 SUPPLEMENTAL CONTINGENCY (Exclude CN 1250 & CN1251)	CONTINGENCY ADJUSTMENT TRANSFERS	REVISED AUTHORIZED CONTINGENCY (Exclude CN1250 & CN1251)	REMAINING CONTINGENCY AFTER APPROVED CHANGES DEDUCTED [h - b]	REMAINING CONTINGENCY AFTER POTENTIAL CHANGES DEDUCTED [i - d]	ORIGINAL CONTRACT VALUE + REVISED AUTHORIZED CONTINGENCY [a + h]	BUDGET - ESTIMATE AT COMPLETE [j - e]		
	a	b	c [a + b]	d	e [c + d]	f	g	h	i	j	k			
SCC 10-50 CONSTRUCTION CONTRACT PACKAGES														
1250	UTILITY RELOCATION PACKAGE #1 <i>Contract 1250 Department of Technology</i>	9,273,939 166,756	2,694,211	11,968,150 166,756		11,968,150 166,756	1,953,377	740,834	2,694,211		11,968,150 166,756		15	
1251	UTILITY RELOCATION PACKAGE #2 <i>Contract 1251 Department of Technology</i>	16,832,550 75,615	3,962,032	20,794,582 75,615		20,794,582 75,615	5,367,297	(1,405,265)	3,962,032		20,794,582 75,615		16	
1252	GUIDEWAY TUNNEL	233,584,015	1,829,687	235,413,702	170,654	235,584,356	23,658,464	(21,328,979)	2,329,485	499,798	329,144	235,913,500	329,144	17
1300	STATIONS	839,676,400	3,259,676	842,936,076	23,290,935	866,227,010	20,000,000		19,925,000	16,665,324	(6,625,610)	859,601,400	(6,625,610)	18
	1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	191,294	294,221,884	16,534,187	310,756,071	5,000,000		5,000,000	4,808,706	(11,725,481)	299,030,590	(11,725,481)	19
	1254 CHINA TOWN STATION [CTS]	247,567,810	2,677,458	250,245,268	3,434,940	253,680,208	5,000,000	(75,000)	4,925,000	2,247,542	(1,187,398)	252,492,810	(1,187,398)	19
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	(1,073,031)	157,015,969	3,476,979	160,492,948	5,000,000		5,000,000	6,073,031	2,596,052	163,089,000	2,596,052	
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	1,463,954	141,452,954	(155,172)	141,297,783	5,000,000		5,000,000	3,536,046	3,691,217	144,989,000	3,691,217	
OTHER		31,233,501		31,233,501	0	31,233,501	1,160,000		1,160,000	1,160,000	1,160,000	32,393,501	1,160,000	
SCC 10 - 50 Construction Sub-total		1,130,842,776	11,745,605	1,142,588,381	23,461,589	1,166,049,969	44,818,464	(21,403,979)	23,414,485	18,325,122	(5,136,466)	1,160,913,503	(5,136,466)	
SCC 60-80 SOFT COSTS PACKAGES														
60	ROW, LAND, EXISTING IMPROVEMENTS	36,511,799	(4,265,478)	32,246,321		32,246,321	1,000,000	4,265,478	1,000,000	5,265,478	5,265,478	37,511,799	5,265,478	20
70	VEHICLES	24,108,712	(10,799,712)	13,309,000		13,309,000	2,276,941	10,799,712	13,076,653	13,076,653	13,076,653	26,385,653	13,076,653	21
80	PROFESSIONAL SERVICES	310,518,041		310,518,041		310,518,041	18,221,079		18,221,079	18,221,079	18,221,079	328,739,120	18,221,079	
SCC 60 - 80 Construction Sub-total		371,138,552	(15,065,190)	356,073,362		356,073,362	21,498,020	15,065,190	32,297,732	36,563,210	36,563,210	392,636,572	36,563,210	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	21,134,447	24,980,392	24,749,924	24,749,924	24,749,924	24,749,924	22
TOTAL		1,501,981,328	(3,319,585)	1,498,661,743	23,461,589	1,522,123,332	70,162,429	14,795,658	80,692,609	79,638,256	56,176,668	1,578,299,999	56,176,668	
											Total Project Budget	1,578,300,000	23	
											Estimate At Completion	1,522,123,332	24	
											Variance	56,176,668	25	
Note #17 - Adjusted Contract 1252 Guideway Tunnel contingency "column g" to reflect construction contract modifications #20, #40, #41, #48 and #51 were funded by other funding sources.														

Contract Modification/Trend Log - Contract 1252 Tunnel

Awarded NTE Amount: \$233,584,015.00
Substantial Completion: 4/15/2015

Revised NTE Amount \$235,413,701.67
Revised Substantial Completion 4/15/2015

Contract Modifications			Amount	
No.	Description	COR/PCC No.	CMod	Contract NTE
1	Amendment of Insurance Requirements	n/a	\$0.00	\$233,584,015.00
2	Amendment of General Liability Insurance Requirements	n/a	(\$3,040,713.00)	\$230,543,302.00
3	Relocation of PG&E Ductbank & Removal/Reinstall TODCO Scaffolding	CORs 10 & 29	\$6,633.37	\$230,549,935.37
4	Investigate 48" Pipe at UMS S. Headwall	PCC 9	\$75,000.00	\$230,624,935.37
5	LB/MOS Oil Filled Pipe Abatement and MOS Asbestos Pipe Abatement	CORs 7, 22 & 27	\$23,912.54	\$230,648,847.91
6	Arch. Support at MOS Station N. Headwall	COR 12	\$16,892.96	\$230,665,740.87
7	Revisions to MOS N. Headwall Elevation	PCC 1	\$20,358.23	\$230,686,099.10
8	UMS Reduced Duration	COR 21	\$0.00	\$230,686,099.10
9	48" Pipe Investigation and Removal at the UMS Headwalls	PCC 11	\$150,000.00	\$230,836,099.10
10	PG&E Impacts to Launch Box and Flagger	CORs 6 & 41	\$8,618.96	\$230,844,718.06
11	Bart Annex Wall	PCC 7	\$15,500.00	\$230,860,218.06
12	LB - Concrete Manhole and Slurry Pipe Removal	COR 38	\$3,820.84	\$230,864,038.90
13	Retrieval Shaft - Pipe/Duct Bank Removal	CORs 31, 47, 50, 58, 66	\$9,908.04	\$230,873,946.94
14	MOS - 16"Pipe Removal @ N/S Headwalls	CORs 39, 44	\$4,551.99	\$230,878,498.93
15	MOS - S. Headwall Asbestos Pipe Abatement	COR 26	\$27,629.64	\$230,906,128.57
16	UMS Utility Removal/Construct Wall	CORs 46, 48, 68	\$21,150.28	\$230,927,278.85
17	MOS - 16" Steel Pipe Removal at N/S Headwalls/Enlarge Tie-In Hole	CORs 73, 76, 81	\$5,056.63	\$230,932,335.48
18	SFWD Support Work	PCC 13	\$20,000.00	\$230,952,335.48
19	Additional BART Instrumentation	PCC 6	\$307,860.75	\$231,260,196.23
20	Relocation of Retrieval Shaft	PCC 10	\$5,150,000	funded by CPT690
21	Columbus Ave. Restoration	NA	\$261,057.00	\$231,521,253.23
22	LB - Jet Grout Quantity Overrun	COR 070	\$599,900.00	\$232,121,153.23
23	Old Navy - Comp. Grout DSCs	COR 079	\$259,373.00	\$232,380,526.23
24	SFWD Excavation, Support and Backfilling	PCC 13	\$13,982.00	\$232,394,508.23
25	Cross Passage 5 - VECP	COR 087	(\$2,674.00)	\$232,391,834.23
26	Various CORs	CORs 9, 24, 37, 45, 51, 61, 71, 77, 83, 99	\$73,700.00	\$232,465,534.23

Connecting people. Connecting communities.				
27	MOS – Reroute traffic signal lines / Equipment Standby	CORs 11, 17	\$80,719.00	\$232,546,253.23
28	PCC 12 - Comp.Grout Mtls., Accel. at R. Shaft, Haz. Mtls @ R.Shaft, Obst. at CSM panel W6 (NTE Amount CMod)	FA COs 006, 007, 008, 009	\$81,937.00	\$232,628,190.23
29	AWSS Conflict with Water Line, AWSS Restraining at Launch Box, AT&T Vault Conflict with Sewer Main	COR 1, 2, 3	\$73,045.00	\$232,701,235.23
30	MOS Headwall End-stops	COR 018	\$144,000.00	\$232,845,235.23
31	Launch Box - Slurry Wall Obstructions	COR 32, 34, 42, 43, 62, 65, 67	\$234,438.00	\$233,079,673.23
32	COR 8 + Markup - Associated w/ COR 001, COR 002, and COR 003	COR 1, 2, 3, 8	\$168,000.00	\$233,247,673.23
33	LB - Pre-Excavation for Slurry Walls	COR 015	\$125,000.00	\$233,372,673.23
34	Modifications to Tunnel Alignment at Market Street - Initial Design Costs	PCC 012 Part 1	\$39,930.00	\$233,412,603.23
35	Deleted AWSS Work at Union St. and Columbus Ave.	PCC 015	(\$187,181.00)	\$233,225,422.23
36	Curb Ramp Work at NE Corner of 4th and Harrison Streets (Force Account)	FA CO 011	\$5,023.00	\$233,230,445.23
37	Staging Yard Hazardous Material	COR 30, 54, 75	\$401,933.00	\$233,632,378.23
38	Modifications to AWSS Facilities at 4th and Bryant Streets	PCC 014	\$35,925.00	\$233,668,303.23
39	MOS N. Headwall Impacts, LB – Jet Grout Overrun	COR 85, 70	\$240,333.00	\$233,908,636.23
40	Culvert, Street & Sidewalk Restoration in N.Beach (includes QC testing)	PCC 20	\$694,651.00	funded by TEP
41	Install Water Main in North Beach	PCC 20	\$328,860.00	funded by SFPUC
42	UMS - Shoring Impacts due to 48" ATT Pipe at SW Headwall	COR 069	\$29,463.00	\$233,938,099.23
43	UMS Tangent Pile SRB-H DSC, UMS Jet Grout Column No. 18 DSC	COR 096, COR 102	\$60,870.00	\$233,998,969.23
44	Subcontractor Substitution	NA	\$0.00	\$233,998,969.23
45	Modifications to Tunnel Alignment - Construction Costs	PCC 12	\$883,693.00	\$234,882,662.23
46	MOS 20" Conflict with 16" AWSS @ South Headwall	COR 082	\$28,160.00	\$234,910,822.23
47	CDF Encasement on 42" RCP	COR 005	\$95,000.00	\$235,005,822.23
48	North Beach Water Main Additional Work	PCC 20	\$112,102.20	funded by SFPUC
49	Various CORS and FACOS; FACO 13-15, 17-19; COR 116, 118-121	FACO 13-15, 17-19; COR 116, 118-121	\$180,010.41	\$235,185,832.64
50	Contract Milestone Changes		\$0.00	\$235,185,832.64
51	PCC 020 - Supp 1 - North Beach Restoration, OCS and Streetlighting		\$155,468.17	funded by TEP
52	PCC 19 - Piping, Conduit and Casing at 4th Street Portal		\$11,678.00	\$235,197,510.64
53	COR 117 - Retrieval Shaft Impacts		\$30,278.08	\$235,227,788.72
54	Material Hardness at the Retrieval Shaft		\$166,182.81	\$235,393,971.53
55	PCC 020 - Supp 2 - North Beach Sewer Work		\$19,730.14	\$235,413,701.67
Sub Total:			\$1,829,686.67	

Pending Contract Modifications		COR/PCC No.	Estimated	
Description			Amount	Time
I	Other Pending Contract Modifications	Cmod # TBD	\$170,653.95	
Sub Total:			\$170,653.95	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	\$839,676,400	\$842,936,076
Substantial Completion	2/10/2018	2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
Potential Changes	16,534,187	3,434,940	3,476,979	(155,172)	26
Forecasted - Trends	2,827,518	1,696,580	555,112	68,840	
Negotiation					
Change of date range to receive art	(10,001)				
UMS Geoprobe Credit	(15,600)				
UMS Powell St. Elevator Site Hazmat	16,028				
STS Traffic Signal and SL Changes				298,307	
STS Comm and Elec Cabinets Relocati				67,221	
YBM Delete Instrument & Monitoring			(50,195)		
STS - OCS Pole Changes				12,706	
UMS - PCC 027 (Escalator Barricade)	(9,227)				
CTS-FACO#39- Soil Testing cmplly OAB		5,478			
UMS-FACO #32 8" Waterline Conf NDSC	75,291				
UMS FACO #31 NDSC Incomplete PGE DB	165,944				
UMS-FACO #25 OCS Pole@ Market/Ellis	3,349				
UMS-FACO #19 Street Light at Stock.	2,361				
STS-FACO #48 Work Related St Lght				2,051	
UMS FACO #34 Becho Obstruct J Piles	7,435				
UMS FACO #45 Blocked Stubs PG&E	7,500				
UMS Transfer Instru BART Facilities	10,165				
CTS-PCC40 Plaza Surface Slab Pntrtn		5,525			
YBM PCC 41 Install #7 Box Clementin			38,501		
UMS Sewer Line Conflict	744,465				
UMS MRY Duct Bank-East Conflict	41,038				
STS Existing Fuel & Transite in MRY				18,342	
YBM COR 64 Buried sheet pile P-7			308		
USG COR 222 Shaft Wall Connections	170,189				
USG COR 228 Tiebacks at Level X	75,001				
USG COR 227 Plaza Lvl. Sequence	200,001				
USG COR 261 8" Wall at Grid 11B	5,632				
USG COR 263 12" Shear Walls	50,001				
USG COR 262 Maintenance Hatch Walls	339,310				
USG COR 264 Str. Steel Shop Dwgs.	5,001				
UMS COR 250 Macy's DSC	75,001				
USG COR 280 Strut Wall Grid 16 - 17	50,001				
USG COR 285 Elev.Edge of Slab Dtl.	50,001				
USG COR 286 Shear Wall GL 13/B-C	25,001				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

\$839,676,400
2/10/2018

\$842,936,076
2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
USG COR 274 Shear Wall at Grid 10	68,945				
USG COR 276 Escalator #1	10,001				
STS - Deletion of ARS (Revision 1)				(4,689,000)	
YBM COR 63 Buried objects in P-86			24,648		
STS COR 100 DSC Zayo PVC Conf w SW				80,082	
STS COR 210 WD pit size increase				21,988	
CTS COR 085 Addl FACO 10 Costs		13,267			
CTS PCC 001 Delete DB on Stockton		(84,018)			
STS COR #92 PG&E Vault Conf 12 AWSS				78,074	
STS COR #118 78" Sewer Excess Debrl				54,455	
UMS - PCC #29 (Concrete Wale Suppt)	41,424				
YBM COR 086 Side SW lat util conf			78,296		
CTS COR 041 FACO #4 JT Unid. Cond		28,026			
CTS COR 040 FACO 002 Connect (E) DB		16,936			
YBM COR 49 Buried timber piles			88,230		
STS 78 Sewer Existing Concrete Crow				1,666	
CTS-COR#201 Swr Line & Station Roof		46,046			
YBM COR 115 C1250 unencased JT			9,843		
STS-COR #84 Sewer Cleaning and Dewa				3,598	
STS COR 272 Pier AWSS Conflict				24,287	
STS COR 258 WD/PVC Conflict				87,511	
STS COR 211 SW conf AWSS 4th/Freelo				4,561	
STS COR #229 Multi E Util Conf w N				8,284	
UMS COR 232 S.Walk Hatches RFI 240	744				
STS COR #88 Modify CBs and Culverts				4,395	
STS COR 101 Cleaning for non-78" SW				58,906	
STS COR #187 DB Conf w N 12 Water				37,012	
CTS COR 231 Sidewalk Hatches		9,917			
STS COR #241 2-In WD Line w Offset				5,386	
STS COR #296 Mult E Util Confl AWSS				44,610	
UMS COR 301 Concr. Overpour and PVC	14,792				
UMS Remove Fire Hose Valve	2,016				
UMS - DCW and Hose Bibbs	29,159				
CTS PCC 061 Escalator Pit Provision		46,809			
STS PCC 063 Del ATT/TSIC/PGE on 4th				(36,495)	
STS COR 073 AWSS Incorrectly Shown				35,134	
STS COR 067 FACO #41 GW Lead Filter				22,695	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

\$839,676,400
2/10/2018

\$842,936,076
2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 037 FACO 037 30" FM Removal				63,972	
STS COR 090 Subsurface Obstrc				20,452	
YBM COR 310 12" WL Conf w/ 36" FM			404,730		
STS COR 091 PG&E Vault Conf 16" Wtr				40,001	
STS COR 093 12" Water Conf 12" Tee				5,001	
STS COR 094 Unknown DB Conf 12" Wtr				20,001	
USG COR 238 Grid 17 & Vent Conn.	20,001				
USG COR 237 Elevator Sump Pits	20,001				
STS COR 074 AWSS Offset/Sewer Demo				108,384	
USG COR 315 Beam Conflict at C Line	50,001				
USG COR 281 8in Slab Conn.at B Line	25,001				
USG COR 345 8 inch Slab Support	15,001				
USG COR 343 Edge of Slab Detail	5,001				
USG COR 360 Column on Grid Line B	5,001				
USG COR 363 Grid Line B Footing	10,001				
USG COR 358 Elev. Machine Rooms	5,001				
USG COR 374 Add Built Up Columns	40,236				
STS COR 198 NDSC Out of Spec Cover				8,123	
STS COR 367 DSC Conf w/ CP and FM				36,256	
UMS Roof Deck - Schedule Recovery	78,765				
STS PCC 066 Add CS ATCS Emer Stop B				208,058	
STS COR 387 Oil Line Confl SW MH				6,124	
USG COR 386 Built up Column	75,001				
USG COR 388 Grid Line C Beam Slab	10,001				
UMS COR 391 AT&T Duct Bank Conflict	25,001				
USG COR 365 Elevator Hoist Beam	50,001				
UMS COR 389 4" Steel line asbestos	20,001				
YBM COR 390 RFI 1654 Chip Headwall			45,118		
USG COR 394 Ramp Conflict with HVAC	75,001				
USG COR 395 Rebar Detail over HVAC	5,001				
USG COR 398 Reinforcing at Columns	20,001				
YBM Sidewalk Bulb-out at Stair#1			83,937		
USG - PCC #030 (US Garage Underpin)	748,508				
USG COR 397 Duct Trench at Level 4	5,001				
USG COR 384 Slab on Grade Depressio	100,001				
USG COR 414 SOG Underneath the Ramp	100,001				
UMS COR 434 Stress of Perm. Struts	926,676				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 416 Conc DB/wall/lines conf				81,783	
USG COR 435 Work Stoppage	50,001				
USG Hydrant Relocation on Geary St.	65,163				
USG COR 415 Glass Roof Steel Elev.	10,001				
USG COR 439 Top of Built-Up Columns	20,001				
USG COR 444 Mech. Opening in Wall	10,001				
STS PCC 077 Tunnel Sump Pump Upgrad				11,147	
UMS Preload Rqmt for Concourse	1,350,001				
USG Door Openings in Shear Walls	41,774				
UMS COR 466 Asbestos Conduit	21,344				
UMS COR 417 Redesigned Manhole	14,385				
YBM COR 485 Issues with N S Headwal			30,001		
YBM COR 95 UST Removal Folsom			196,000		
YBM COR 54 Conc obst 20" cut & cap			56,654		
YBM COR 230 Change load Bilco hatch			15,119		
YBM COR 249 Utility conflicts Folso			93,425		
UMS FACO #29 BART Hazmat Abatement	22,884				
STS COR 089 Extra Sewer Work				29,468	
USG PCC 73 Acceleration of Work	102,203				
YBM COR 50 Contam soil along H Line			39,560		
STS COR 480 Conc confl w (N) FM				886	
YBM COR 248 Transite pipe Folsom			1,501		
YBM COR 46 Add analy tests by AEW			3,655		
USG COR 532 Wall Connection	20,001				
USG COR 534 Existing Column Tie-In	5,001				
USG COR 344 Unknown Grade Beams	10,001				
USG COR 541 Plaza Level Lighting	5,001				
USG COR 544 Vent Shaft	10,001				
USG COR 546 Tiebacks at Level X	0				
USG COR 551 Additional Waterstops	15,001				
USG COR 552 Plumbing	0				
USG COR 553 Details at Glass Roof	10,001				
UMS COR 493 Steel Shape Inside Pile	25,001				
UMS COR 516 Utilities and Slab at G	17,827				
USG COR 501 Tieback X-16	20,001				
UMS COR 510 6" VCP Side Sewer	19,696				
USG COR 514 Added Structural Dtls.	10,001				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 530 Tunnel Track Machine				20,064	
STS PCC 084 Removal of ATT DB & Vau				282,345	
YBM PCC 88 Extend 24" WM to Howard			90,279		
YBM PCC 90 Replace Bollards on 4th			9,677		
USG COR 554 Reinforcing Design	10,001				
UMS Grade 50 Steel in Lieu Grade 70	572,884				
STS Tunnel Lowering				109,224	
UMS COR 565 GEN Emer Vent Design	500,001				
CTS COR 171 Mismarked gas line		14,581			
STS COR 571 Brk struc confl w/ AWSS				1,648	
UMS COR 578 Elev./Escalator Monitor	25,001				
UMS COR 579 Elevators 1-4 SFFD	25,001				
UMS COR 591 Escalators and Stairs	100,001				
UMS COR 600 Hydrocarbon Odor	50,001				
UMS - PCC #31 (USG HVAC Trench Mod)	186,511				
CTS PCC#25 Stairs 5, 6, 7 Mods		21,672			
YBM COR 116 Archaeological Discovery			124,268		
YBM PCC 82 Delete Scope Due to Hote			(38,294)		
STS PCC #51 Inventor Tmp Crossover				23,420	
STS Track Switch Machine Change				389,965	
UMS COR 539 Elev.3/4 Machine Pocket	10,001				
YBM COR 566 WD Tie-In @ Folsom			6,302		
USG COR 649 16 line Jet Grout Clafc	500,001				
YBM PCC 76 AWSS, SSFM, WM Design			627,854		
CTS - PCC #036 (CMU Wall Bracing)		19,552			
UMS COR 636 Bi-Fold Door Tube Steel	24,911				
UMS PCC 100 Waterproofing and Drain	217,203				
USG COR 654 Plaza Level Tie-In	10,001				
UMS COR 652 Elev. 1 & 2 Cond. Shaft	10,001				
UMS COR 661 Card Acc & Dr alm Pnts	10,001				
YBM COR 45 Abandoned sewer not slur			7,492		
UMS COR 673 Elation System Changes	10,001				
UMS COR 674 1.5 in Vertical Drain	10,001				
USG COR 669 Exig Leaks @ USG	10,001				
STS COR 657 Tunnel Ca Bsn Dsn Chang				10,001	
UMS COR 678 Drain Piping Size	10,001				
UMS COR 690 Fire Alram Annunciator	10,001				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
UMS COR 696 Use 2.5 Inch Conduit	10,001				
CTS COR 695 Mod to Grondng System		10,001			
STS COR 664 Threaded Dowels				10,001	
UMS COR 689 Pil Ovstrss at Outrigrs	10,001				
UMS COR 697 Emer Train Stp Buttns	10,001				
UMS COR 712 Utltly Undrping Moniting	10,001				
YBM COR 711 Conduit for AC Swichgea			10,001		
UMS COR 710 Alm Sys Dsgn & Asso Mt	10,001				
UMS COR 709 Potbl Gen Tap Box	10,001				
CTS COR 706 Glas Canpy Trench Drain		10,001			
UMS COR 645 Notch Wales at N. HWall	90,367				
Proposed Contract Change (PCC)					
UMS - Relocation of TS Cabinet	23,275				
YBM_CTS PCC 33 Platform Gate Revisio			100,001		
CTS - Removal of Bus Bulb		15,997			
CTS Delete PGE Work at Vault 732		(50,000)			
UMS MRY Duct Bank-West	54,981				
Deletion of ARS (Part II)				(600,001)	
YBM PCC 56 OCS Pole Foundations			551		
CTS PCC 067 Wall Shift North Access		(1,097)			
USG Ramp Barriers and Handrail	47,569				
CTS PCC 050 Chinatown Plaza		0			
USG Removal of Existing Column	(101)				
UMS Jet Grout at O'Farrell	35,001				
YBM PCC 79 Install 12in WM to Howar			169,450		
YBM PCC 37 SFAC Node Sculpture			100,001		
YBM PCC 59 Pavers Basis of Design			20,001		
UMS Locate PG&E Conduits	20,001				
CTS PCC 083 Switchgear Breakers		30,001			
YBM PCC 85 Ticketing Hall Changes			100,001		
UMS PCC 86 Headwall Soffit Pile	20,001				
USG PCC 87 Tiebacks, L2, GL 14-15	40,001				
USG PCC 89 E. Light Pole Foundation	2,501				
UMS PCC 71 Rerouting of Slab Drains	0				
YBM PCC 91 Concourse Beam Revision			0		
UMS PCC 092 (GEN) TME Tracking Form	2,501				
UMS PCC 93 Ellis Deck Seismic Joint	10,001				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
UMS Repair MRY Ductbank Y Connection	0				
STS PCC 095 Frame/Grate Change				(50,001)	
YBM PCC 97 Change Concourse Opening			30,001		
YBM PCC 099 Glass Art Changes			30,000		
STS PCC 096 Rev 1 - 4th St SW Lining				50,001	
CTS PCC 98 Slurry Wall Wr Proofing		20,001			
USG PCC 101 Elev. Machine Rooms	0				
USG PCC 102 Fire Horn-Strobe	0				
UMS PCC 103 PG&E S.light at Maiden	0				
CTS PCC 104 Water Leak NE HH		20,001			
UMS PCC105 Adj to Row X and Row Y	10,001				
UMS PCC 106 Edge of Slab for 8" Con	10,001				
UMS PCC 107 Light Pole Footings	10,001				
UMS PCC 108 Con Wok chges du to DSC	10,001				
UMS PCC 109 Rein Dtls for Struc Con	10,001				
Change Order Request (COR)					
STS COR 17 Changes to Sewer Structu				247,717	
STS-FACO #47 Sewer Related Work Pt2				33,898	
UMS-FACO #30 NDSC Inadequate CDF	157,462				
STS- AT&T Conduit Changes				22,290	
STS COR 113 DSC PVC Conduit/WL Conf				11,997	
STS COR 145 DSC PVC Conduits Conf				1,276	
STS COR 164 DSC 8" AWSS Lat Conf 78				5,750	
STS COR 254 DSC 4" Confl w 36" FM				25,197	
CTS COR 255 Additional Instruments		429,777			
STS COR 270 SW AWSS Conflict				8,280	
STS COR 271 DB AWSS Conflict				891	
STS COR 290 E CB PVC Confl WD AWSS				3,329	
STS COR 297 TC for Track Work at 4t				150,001	
UMS COR 110 DSC Obst. at JG Columns	1,748,070				
USG COR 359 Escalator #1 Truss Span	89,655				
USG COR 246 Tieback Access RFI 1050	160,933				
UMS COR 300 14 HDPE at Geary	(307)				
CTS COR 305 Abandon OBW-CTS-03		1,790			
STS COR 371 Conflicts w/ 12" AWSS				30,001	
CTS COR 372 DSC Potholing @ N Acces		9,846			
STS COR 392 Util at 4th-Town SW MH				25,001	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 402 3x5 SW Confl w/ VCP SW				10,001	
UMS COR 403 Waterproofing at BART	63,285				
STS COR 404 Contam Soil in MRY DB				12,303	
YBM COR 267 Design for S.walk Hatch			10,848		
STS COR 014 Addtl MNHS for 78" SW				20,217	
STS COR 401 AWSS Layout 4th/King				295,269	
STS COR 406 Addtl TC at 4th/King				675,001	
STS COR 409 Conc in confl w/ (N) FM				3,722	
STS COR 411 Delay 8" WL miss serv				7,501	
CTS COR 405 Hydrocarbons in HH		50,001			
CTS COR 408 MSX Termination		191,291			
CTS COR 437 Unanticipated Elec @ Sh		50,001			
STS COR 443 AWSS Procurement Delay				25,001	
CTS COR 445 3x5 w/ HDPE/PVC Inside		10,001			
CTS COR 450 Switchgear Cubicles		100,001			
STS COR 451 PGE Vlt WD Line Confl				30,001	
STS COR 454 Addtl Conflicts w/ 8" W				120,001	
STS COR 455 Conflicts w/ 8" WD Line				10,001	
STS COR 456 Conflicts w/ MRY Poles				20,001	
UMS COR 393 Wrap 14" Sewer Line	4,131				
STS COR 461 WD Confl w/ Mult Utilit				100,001	
STS COR 469 SW Cleaning 4th/King				1,836	
USG COR 471 Tieback Install Delays	46,250				
STS COR 475 Removal of Fiber Optic				1,101	
STS COR 476 Conc DB Conf w/ FH				25,001	
USG COR 486 Level X Test Tieback	0				
STS COR 500 Tunnel Monuments				5,001	
USG COR 512 Plaza Slab Conflict	50,001				
STS COR 519 Re-pressure test WD				2,739	
STS COR 523 AV & GV on 8" WD Main				1,601	
CTS COR 526 Connection b/t Wall & D		25,001			
CTS COR 527 Connection b/t Wall/Dec		25,001			
STS COR 531 ATT Confl w/ 36" FM				25,001	
STS COR 536 Util in Conf w 36" FM				66,287	
STS COR 557 ATCS Revisions				50,001	
STS COR 558 CB in conf w AWSS				3,001	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 561 ATCS Mitigation NCT				1	
STS COR 563 Utils conf w new AWSS				377	
STS COR 491 Util in conf w/ 10" VCP				10,001	
CTS COR 529 Rock Mass at Elev 37'		25,001			
STS COR 562 WD offsets around basin				25,534	
YBM COR 564 Concrete Encased PG&E			0		
CTS COR 568 CMOD 019 Reservations		300,001			
USG COR 569 Steel Plate Under Glass	0				
STS COR 570 Slab confl w/ AWSS				3,001	
CTS COR 574 Escalator supports		1			
UMS COR 575 Pre-Load of Perm.Struts	0				
YBM COR 581 SFFD Montor Panel			0		
STS COR 584 Debris confl w/ culvert				11,569	
YBM COR 586 Concrete Block @ Folsom			10,001		
YBM COR 597 Power Circuits for CCTV			0		
YBM COR 598 Power Circuit for CCTV			0		
YBM COR 599 Elect for HVAC VRV's			0		
STS COR 369 STS conf w/ SW @ Welsh				4,515	
STS COR 447 Added Exc for SFWD POC				18,455	
STS COR 520 Lat Conf AWSS				3,867	
STS COR 522 Thickened Str. Stan				5,217	
STS COR 533 Conc wall confl util				39,170	
STS COR 559 Temporary Trolley Pole				15,001	
STS COR 567 Loct of Plinth Breaks				10,001	
YBM COR 572 Kiosks on Platform Lvl			8,060		
CTS COR 582 Monitor at Agent Booth		25,001			
CTS COR 583 Elev 1-4 SFFD monitor		25,001			
YBM COR 589 Escalators 3, 4, and 7			0		
STS COR 601 Conc Enc in cn. w W lin				2,827	
STS COR 604 Duct Bank in conf. w se				10,001	
STS COR 606 PDS Mounting Brackets				10,001	
STS COR 609 Damaged MRY Conduit				10,001	
STS COR 613 Unknown Duct Bank				3,001	
STS COR 614 Pole ftg confl w FM				6,001	
STS COR 615 Sump Pump Pit Cover				1,044	
UMS COR 617 Material North of Geary	50,001				
STS COR 618 Add Exc added 4" Gate				3,535	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 619 Added WD POC Excavation				5,372	
STS COR 621 Additional WD Exc. per				10,914	
STS COR 623 Unkn Con Structure				5,001	
STS COR 639 Util conf w/ 12" AWSS				10,001	
STS COR 641 SW delay due to conf ut				10,025	
UMS COR 646 Add. Floor Drain	6,504				
UMS COR 648 Water Proof under swalk	50,001				
STS COR 650 Asbestos conf w/ ATT DB				15,001	
UMS COR 673 Elation System Changes	0				
CTS COR 165 Rqst for wet Tickets		10,001			
UMS COR 278 Unnecsry Shocret Shdwn	9,120				
USG COR 509 Soil Nail Shotcrete Wall	1,164,129				
YBM COR 624 CMU Wall Supports			31,320		
CTS COR 625 Added Cane Detc Rail		1,889			
CTS COR 626 Ad HSS & Plt @ H Beam		3,986			
CTS COR 627 Add HSS Col @ Tickt Mac		2,417			
CTS COR 629 Abrsv Nosng at Con Strs		3,494			
YBM COR 630 Add Hot Dip Glvzed Fini			11,206		
STS COR 632 Omit Unist & add Anr Bt				6,293	
STS COR 634 Forc Mn Dsn PCO 329				126,382	
CTS COR 640 East Leg swer Sipline		61,264			
STS COR 644 Wod Pier Cnf w AWSS				13,258	
UMS COR 653 Comp. Grout Hole E-5-2	10,001				
STS COR 655 Unkn Cnc St / cn w cbsn				3,000	
USG COR 656 Elev. 1&2 Add OH Hoist	14,866				
CTS COR 659 Add Grts at Sta Ag glas		1,537			
UMS COR 660 Added Grommets at Booth	1,134				
STS COR 662 Foo cnf with catch bsn				1,257	
USG COR 663 Water Flow from Roof	50,001				
STS COR 665 Ov prd Lit Pl fdn in				3,001	
STS COR 666 Ukn Con Vlt/con N36"				7,501	
CTS COR 670 Kitn Sink Piping		10,001			
STS COR 675 Dct bnk & 3" Gas Line				10,001	
UMS 676 Fire Alarm System	0				
STS COR 677 Fir Supsion stnpip Mat				3,895	
CTS COR 679 GI Cutos & Add Sp hds		23,450			
STS COR 682 Shtdown #1 Rail Mods				9,432	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 683 Gas Ln & unkn Duct Bank				5,001	
STS COR 685 DSC 8" Con unslab St Sc				13,075	
UMS COR 687 Trant Pipe at St 134+00	50,001				
STS COR 688 Ukn Piers /conct N 12"				5,001	
YBM COR 692 Rebr to bs Plt Filt Wld			13,118		
UMS COR 693 Add Crysized Glass Panel	40,823				
STS COR 694 Tr Rts in con/car pipes				5,001	
STS COR 699 Dct Bnk in Cnf w 36"FM				20,001	
STS COR 702 Brk Cs Bsn cnct w N Cuv				5,001	
STS COR 703 Tunl Wakway Expn jnts				3,412	
YBM COR 704 Vetc Pickts @ Plug Risr			(827)		
YBM COR 705 Del bems & Embds/Ven sh			(17,893)		
UMS COR 707 Prc /Ins Gas by PG& E	(9,680)				
STS COR 713 Dmgd 15" Sw Ln -Con mnh				10,001	
UMS COR 714 Acc Con Alr Ponts	10,001				
CTS COR 628 Add Beams and Embeds		8,331			
Change Order - Pending					
UMS -Remove AWSS Hydrant at OFarrel	7,307				
CTS-Plaza Surface Level Struct Mods		(10,337)			
UMS FACO #53 NDSC Transite Pipe	61,055				
STS COR #236 E WD Config at Freelon				55,902	
UMS COR 235 DSC Transite Pipe	1,855				
STS COR #170 Cores in 78" RC Crown				1,666	
YBM COR 240 Headhouse Contam. Mtl.			108,181		
UMS COR 277 8" Steel line Asbestos	3,769				
YBM PCC 062 Delete SW MH FOL 10+35			(24,319)		
CTS COR 353 AWSS confl w HDPE in SW		2,883			
YBM COR 362 Temp Pavement Section			60,797		
YBM COR 373 DSC NoD Contaminated Ma			40,548		
UMS COR 407 8 inch SS Line Conflict	4,647				
CTS COR 430 Unknown Concrete		3,712			
CTS COR 429 Thickened Street Base		2,609			
CTS COR 436 WD confl with SW MH A		20,223			
CTS COR 452 ATT Vlt Confl w/ SS Lat		1,742			
CTS COR 453 Steel Line Confl w/ SS		4,966			
UMS PG&E Additional Conduits	36,657				
UMS COR 079 DSC Storage Tanks	97,817				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 468 Buried Debris in Subgra				2,027	
CTS COR 470 Steel Pipe/SW MNH Confl		2,150			
YBM COR 458 TPC site support Zayo			7,005		
YBM COR 459 AWSS / WD Conflict			75,154		
YBM COR 474 Folsom Culvert at PG&E			18,612		
CTS COR 528 AWSS in 3x5 Brk SW		20,285			
UMS COR 595 Fuel Tank S. of Geary	51,956				
CTS PCC 017 FH at Jade Galore		90,090			
YBM COR 642 Sto Dir du to Nav Mon			1,754		
YBM Delete Post-Grout of TB-2			(9,001)		
YBM COR 370 Brik Mnhl. conf.			647		
CTS COR 521 Accommodations for Chin		11,223			
Approved	191,294	2,677,458	(1,073,031)	1,463,954	
Contract Modification					
CMod #1 BART Elevator Option 1 @ Pow	90,000				
CMod #3 CTS Work Safely Ard Power Po		25,956			
CMod #5 YBM Deletion of Comp Groutin			(1,833,869)		
CMod #6 CTS Plaza Constr Supt Servi		75,000			
CMod#7 STS FACOs 016, 017 &COR 009				80,170	
CMod #4 CTS-Force Account Change Or		130,000			
Cmod #10 YBM PCC 042			64,287		
CMod#8 STS PCC 006 ATT MH, PB&Trench				225,208	
CMod #9 YBM COR 10,15,16,18,20,25			126,663		
CMod #11 UMS PCC 002	12,997				
CMod #12 STS Traffic Control				1,032,302	
CMod # 14 YBM COR 036, 078			58,526		
CMod #15 YBM COR 196			3,178		
CMod #16 UMS COR 184	8,261				
CMod #017 CTS CORs 001 053 & 069		54,322			
CMod #018 CTS PCC 012		60,248			
CMod #13 CTS COR 006		57,707			
CMod #19 CTS COR 007, 026		2,274,225			
CMod #20 YBM PCC 047 and 45			364,562		
CMod #021 STS CORs 48/52/114/233/252				18,221	
CMod #22 UMS PCC 045, 046	16,198				
CMod #23 UMS PCC 058	63,838				
CMOD 24 STS PCC 23				108,053	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
CMod #026 YBM COR 072			84,509		
CMod #025 YBM Various CORs			59,113		
Grand Total	16,725,481	6,112,398	2,403,948	1,308,783	

7.6 BUDGET REVISIONS: REPORT SORTED BY CONSTRUCTION PACKAGES & SOFT COSTS

Report Period: May 2016

		Apr 2016			May 2016				
Group by Contract & SCC	CATEGORY ITEM	Apr 2016 Base	Apr 2016 Allocated Contingency	Apr 2016 Base + Allocated Contingency (YOE)	May 2016 Base	May 2016 Allocated Contingency	May 2016 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [May 2016] vs. [Apr 2016]	Cost Report Notes
10-50	CONSTRUCTION CONTRACT PACKAGES	1,142,075,793	18,837,711	1,160,913,503	1,142,513,381	18,400,122	1,160,913,503	0	
1250	UTILITY RELOCATION PACKAGE #1	12,134,906		12,134,906	12,134,906		12,134,906	0	
	Contract 1250 Form B Credit	(2,275,419)		(2,275,419)	(2,275,419)		(2,275,419)	0	
1251	UTILITY RELOCATION PACKAGE #2	20,870,197		20,870,197	20,870,197		20,870,197	0	
	Contract 1251 Form B Credit	(7,618,412)		(7,618,412)	(7,618,412)		(7,618,412)	0	
1252	GUIDEWAY TUNNEL	235,227,789	685,711	235,913,500	235,413,702	499,798	235,913,500	0	27
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
1300	CN1300 STATIONS TOTAL	842,609,400	16,992,000	859,601,400	842,861,076	16,740,324	859,601,400	0	28
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	294,221,884	4,808,706	299,030,590	294,221,884	4,808,706	299,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	250,170,268	2,322,542	252,492,810	250,170,268	2,322,542	252,492,810	0	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	156,872,347	6,216,654	163,089,001	157,015,969	6,073,032	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	141,344,901	3,644,098	144,988,999	141,452,954	3,536,045	144,988,999	0	
	STS 1256 SFPUC SEWER MAIN CREDIT	(2,925,296)		(2,925,296)	(2,925,296)		(2,925,296)	0	
	STS 1256 Form B Credit	(1,000,000)		(1,000,000)	(1,000,000)		(1,000,000)	0	
OTHER	OTHER CONSTRUCTION TOTAL	46,386,751	1,160,000	47,546,751	46,386,751	1,160,000	47,546,751	0	
40.06	PUBLIC ART PROGRAM	8,175,555	1,160,000	9,335,555	8,175,555	1,160,000	9,335,555	0	
40.02	MISC. CONSTR CONTRCT WK (TRACTION POWER FOR 1251)	258,202		258,202	258,202		258,202	0	
40.01	CONTRACT 1300 SOIL PROCESS	500,000		500,000	500,000		500,000	0	29
50.01	TEMPORARY LICENSE AGREEMENT (ATCS CENTRAL CONTROL)	487,972		487,972	487,972		487,972	0	
50.06	MTA FARE COLLECTION EQUIPMENT	5,400,000		5,400,000	5,400,000		5,400,000	0	
50.06	BART FARE COLLECTION EQUIPMENT	700,000		700,000	700,000		700,000	0	

7.6 BUDGET REVISIONS: REPORT SORTED BY CONSTRUCTION PACKAGES & SOFT COSTS

Report Period: May 2016

		Apr 2016			May 2016				
Group by Contract & SCC	CATEGORY ITEM	Apr 2016 Base	Apr 2016 Allocated Contingency	Apr 2016 Base + Allocated Contingency (YOE)	May 2016 Base	May 2016 Allocated Contingency	May 2016 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [May 2016] vs. [Apr 2016]	Cost Report Notes
40.02	JOB ORDER CONTRACTS (JOCS) - CONSTRUCTION	117,255		117,255	117,255		117,255	0	
40.08	AON RISK INSURANCE	18,088,750		18,088,750	18,088,750		18,088,750	0	
40.02	PUBLIC AGENCIES UTILITY COORDINATION	3,713,215		3,713,215	3,713,215		3,713,215	0	
40.02	DEPARTMENT OF PARKING AND TRAFFIC (DPT)	1,200,000		1,200,000	1,200,000		1,200,000	0	
50.03	UNION SQUARE/ MARKET STREET STATION POWER FEED	2,959,826		2,959,826	2,959,826		2,959,826	0	
50.03	UNION SQUARE/ MARKET STREET STATIONS PERMANENT POWER	(2,350,000)		(2,350,000)	(2,350,000)		(2,350,000)	0	
50.03	CHINATOWN STATION POWER FEED	2,959,826		2,959,826	2,959,826		2,959,826	0	
50.03	CHINATOWN STATION PERMANENT POWER	(2,350,000)		(2,350,000)	(2,350,000)		(2,350,000)	0	
50.03	YERBA BUENA/ MOSCONE STATION [YBM] POWER FEED	3,125,222		3,125,222	3,125,222		3,125,222	0	
50.03	YERBA BUENA/ MOSCONE STATION [YBM] PERMANENT POWER	(2,368,540)		(2,368,540)	(2,368,540)		(2,368,540)	0	
50.03	SURFACE STATION POWER FEED	11,839		11,839	11,839		11,839	0	
50.04	COMMUNICATION CONNECTION COSTS	5,757,629		5,757,629	5,757,629		5,757,629	0	
60	ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	5,265,478	37,511,799	32,246,321	5,265,478	37,511,799	0	
60.01	PURCHASE OR LEASE OF REAL ESTATE	30,065,810	5,265,478	35,331,288	30,065,810	5,265,478	35,331,288	0	30
60.02	RELOCATION OF EXISTING HOUSEHOLDS	2,180,511		2,180,511	2,180,511		2,180,511	0	
70	VEHICLES	13,309,000	13,076,653	26,385,653	13,309,000	13,076,653	26,385,653	0	
70.01	LIGHT RAIL	13,309,000	13,076,653	26,385,653	13,309,000	13,076,653	26,385,653	0	31
70.07	SPARE PARTS								
80	PROFESSIONAL SERVICES	310,518,041	18,221,079	328,739,120	310,518,041	18,221,079	328,739,120	0	
80.01	PRELIMINARY ENGINEERING	46,202,674		46,202,674	46,202,674		46,202,674	0	

7.6 BUDGET REVISIONS: REPORT SORTED BY CONSTRUCTION PACKAGES & SOFT COSTS

Report Period: May 2016

		Apr 2016			May 2016				
Group by Contract & SCC	CATEGORY ITEM	Apr 2016 Base	Apr 2016 Allocated Contingency	Apr 2016 Base + Allocated Contingency (YOE)	May 2016 Base	May 2016 Allocated Contingency	May 2016 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [May 2016] vs. [Apr 2016]	Cost Report Notes
80.02	FINAL DESIGN	61,322,751		61,322,751	61,322,751		61,322,751	0	
80.03	PROJECT MANAGEMENT FOR DESIGN & CONSTRUCTION	89,021,634	13,905,845	102,927,479	89,021,634	13,905,845	102,927,479	0	
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	91,037,791	2,956,812	93,994,603	91,037,791	2,956,812	93,994,603	0	
80.05	INSURANCES	6,800,000		6,800,000	6,800,000		6,800,000	0	
80.06	LEGAL: PERMITS. REVIEW FEES BY OTHER AGENCIES	8,258,184		8,258,184	8,258,184		8,258,184	0	
80.07	SURVEYS, TESTING, INVESTIGATION. INSPECTION	883,100		883,100	883,100		883,100	0	
80.08	START-UP	6,991,907	1,358,422	8,350,329	6,991,907	1,358,422	8,350,329	0	
	ALL SCC CATEGORIES 10 TO 80	1,498,149,155	55,400,921	1,553,550,076	1,498,586,743	54,963,332	1,553,550,076	0	
90	UNALLOCATED CONTINGENCIES			24,749,927			24,749,927		32
	TOTAL PROJECT COST 10 TO 100			1,578,300,002			1,578,300,002		
	TOTAL CONTINGENCY			80,150,847			79,713,259		
	CONTINGENCY MINIMUM			60,000,000			60,000,000		
	BELOW OR ABOVE MINIMUM			20,150,847			19,713,259		

COST STATUS BY CATEGORY	SCC CODES	BUDGET Apr 2016	BUDGET TRANSFERS	BUDGET May 2016	May 2016 CTD	May 2016 EAC
CONSTRUCTION	SCC 010 - 050	1,160,913,504	(0)	1,160,913,504	675,513,013	1,166,049,969
REAL ESTATE	SCC 060	37,511,799	0	37,511,799	30,646,005	32,246,321
VEHICLES	SCC 070	26,385,653	0	26,385,653	2,147,952	13,309,000
PRELIM ENGINEERING	SCC 080.01	46,202,674	0	46,202,674	46,202,675	46,202,674
FINAL DESIGN	SCC 080.02	61,318,331	0	61,318,331	61,576,939	61,322,751
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	196,922,082	0	196,922,082	112,897,395	180,059,425
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,296,033	0	24,296,033	12,306,192	22,933,191
UNALLOC CONTINGENCY	SCC 090	24,749,924	0	24,749,924		
Grand Total		1,578,300,000	(0)	1,578,300,000	941,290,172	1,522,123,332

SCC DESCRIPTION	May 2016 BUDGET	May 2016 CTD
010 - GUIDEWAY & TRACK ELEMENTS	285,696,893	190,776,255
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	573,714,346	283,946,377
040 - SITEWORK & SPECIAL CONDITIONS	206,131,166	182,666,238
050 - SYSTEMS	95,371,099	18,124,143
060 - ROW, LAND, EXISTING IMPROVEMENTS	37,511,799	30,646,005
070 - VEHICLES (number)	26,385,653	2,147,952
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	328,739,120	232,983,202
090 - UNALLOCATED CONTINGENCY	24,749,924	
Grand Total	1,578,300,000	941,290,172

SCC DESCRIPTION	May 2016 BUDGET	May 2016 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	145,000
010.06-Guideway: Underground cut & cover	70,833,126	61,893,296
010.07-Guideway: Underground tunnel	200,793,041	123,512,488
010.09-Track: Direct fixation	6,761,089	2,606,871
010.12-Track: Special (switches, turnouts)	4,449,637	2,618,600
020.01-At-grade station, stop, shelter, mall, terminal, platform	6,673,138	1,419,168
020.02-Aerial station, stop, shelter, mall, terminal, platform	3,536,045	0
020.03-Underground station, stop, shelter, mall, terminal, platform	541,803,326	279,184,215
020.07-Elevators, escalators	21,701,837	3,342,993
040.01-Demolition, Clearing, Earthwork	11,228,751	10,501,373
040.02-Site Utilities, Utility Relocation	56,827,937	56,357,952
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	7,301,393	3,878,001
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,020,165	589,332
040.05-Site structures including retaining walls, sound walls	2,706,431	2,706,431
040.06-Pedestrian / bike access and accommodation, landscaping	9,755,506	2,177,348
040.07-Automobile, bus, van accessways including roads, parking lots	6,967,874	2,133,265
040.08-Temporary Facilities and other indirect costs during construction	110,323,109	104,322,537
050.01-Train control and signals	28,031,423	6,080,403
050.02-Traffic signals and crossing protection	12,584,529	6,978,200
050.03-Traction power supply: substations	21,487,073	3,863,853
050.04-Traction power distribution: catenary and third rail	12,441,113	1,140,183
050.05-Communications	12,062,374	61,503
050.06-Fare collection system and equipment	6,100,000	0
050.07-Central Control	2,664,586	1
060.01-Purchase or lease of real estate	35,331,288	28,236,576
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	26,385,653	2,147,952
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,576,939
080.03-Project Management for Design and Construction	102,927,479	61,386,315

SCC DESCRIPTION	May 2016 BUDGET	May 2016 CTD
080.04-Construction Administration & Management	93,994,603	51,511,080
080.05-Professional Liability and other Non-Construction Insurance	6,800,000	6,340,196
080.06-Legal; Permits; Review Fees by other agencies, cities, etc.	8,262,604	4,573,622
080.07-Surveys, Testing, Investigation, Inspection	883,100	13,831
080.08-Start up	8,350,329	1,378,544
090.00-Unallocated Contingency	24,749,924	
Grand Total	1,578,300,000	941,290,172

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] May 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
TOTAL PRELIMINARY ENGINEERING	46,542,061	46,542,061	0	0	46,542,061	0	33
11 - SFMTA PROJECT MANAGEMENT	8,828,359	8,253,957	0	0	8,253,957	574,403	34
12 - SFMTA ENGINEERING SERVICES	11,425,594	11,425,594	0	0	11,425,594	0	35
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	935,451	802,883	0	0	802,883	132,568	
21 - ARTS COMMISSION	1,500,570	1,500,570	0	0	1,500,570	1	36
22 - FIRE DEPARTMENT	33,825	33,825	0	0	33,825	0	
23 - CITY ATTORNEY'S OFFICE	1,234,754	1,234,754	0	0	1,234,754	0	
24 - RISK MANAGEMENT	0	0	0	0	0	0	
26 - PLANNING	99,604	99,604	0	0	99,604	0	
27 - DEPARTMENT OF PUBLIC HEALTH (DPH)	4,420	4,420	0	0	4,420	0	
29 - CITY AUDITOR	308,540	315,616	0	0	315,616	(7,076)	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	3,322,887	3,714,064	0	0	3,714,064	(391,177)	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	17,462	17,462	0	0	17,462	0	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	76,549	76,549	0	0	76,549	0	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	13,993	13,993	0	0	13,993	0	
51 - 821 HOWARD STREET	1,005,653	1,005,653	0	0	1,005,653	0	
55 - 651 BRANNAN	2,294,910	2,294,910	0	0	2,294,910	0	37
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	26,793,234	26,793,234	0	0	26,793,234	0	38
66 - ANIL VERMA	395,204	395,204	0	0	395,204	0	39
67 - HILL INTERNATIONAL CONTRACT 156	6,716,294	6,716,294	0	0	6,716,294	0	
68 - ARTHUR GALLAGER & CO. CS 164	6,800,000	6,340,196	0	0	6,340,196	459,804	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	5,469,336	5,469,336	0	0	5,469,336	0	40
72 - STATIONS - CONTRACT # CONTRACT 155-2	26,220,609	26,220,609	0	0	26,220,609	0	41
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	11,432,312	11,432,312	0	0	11,432,312	(0)	42
331 - BAY AREA RAPID TRANSIT (BART)	146,427	146,427	0	0	146,427	0	
332 - SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY (SFCTA)	0	0	0	0	0	0	
TOTAL FINAL DESIGN	115,075,987	114,307,465	0	0	114,307,465	768,523	
11 - SFMTA PROJECT MANAGEMENT	15,589,933	6,656,317	235,997	215,058	6,871,375	8,718,558	
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	15,589,933	6,656,317	235,997	215,058	6,871,375	8,718,558	
12 - SFMTA ENGINEERING SERVICES	905,264	2,348,864	108,176	4,259	2,353,123	(429,541)	
1.3.012.02.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1252	123,582	57,648	0	0	57,648	65,934	
1.3.012.06.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1300	1,800,000	2,291,216	108,176	4,259	2,295,475	(495,475)	
13 - SFMTA CONSTRUCTION MANAGEMENT	44,075,375	10,181,799	347,935	202,051	10,383,850	32,673,206	
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	43,057,057	10,181,799	347,935	202,051	10,383,850	32,673,206	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,588,074	1,609,355	(26,557)	13,478	1,622,832	2,075,921	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] May 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	84,615	1,642	404	85,019	214,581	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	68,807	1,811	1,800	70,607	204,293	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	107,527	4,504	5,537	113,064	125,336	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	171,728	4,788	5,737	177,465	699,411	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B86]	0	204,261	0	0	204,261	(204,261)	
1.3.016.06.040.02 - DPT:DPT TRAFFIC SHOP CONTRACT 1300	1,200,000	0	0	0	0	1,200,000	
1.3.016.07.080.04 - DPT:SSD DS/CN: 1UTL	38,450	0	0	0	0	38,450	
1.3.016.08.040.08 - DPT:PCOS:2UTL [68A]	400,728	400,728	0	0	400,728	0	
1.3.016.08.040.08 - DPT:SSD CN:2UTL	0	108,020	0	0	108,020	(108,020)	
1.3.016.08.080.04 - DPT:SSD [1326]	259,120	235,252	(39,301)	0	235,252	23,868	
1.3.016.08.080.04 - DPT:SSD [13BN]	0	23,302	0	0	23,302	(23,302)	
1.3.016.08.080.04 - DPT:SSD [13CN]	0	963	0	0	963	(963)	
1.3.016.08.080.04 - DPT:SSD [B85]	0	92,008	0	0	92,008	(92,008)	
1.3.016.09.040.08 - PCOS:1300/STS [68CPT544132Z.CPT544132Z]	0	110,679	0	0	110,679	(110,679)	
17 - MOTIVE POWER	2,195	0	0	0	0	2,195	
1.3.017.07.040.02 - PWR:SFMTA-MOTIVE POWER-UTL.REL	2,195	0	0	0	0	2,195	
18 - SFMTA OPERATIONS	400,000	39,586	0	0	39,586	286,883	
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	26,469	0	0	26,469	73,531	
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300/UMS	300,000	13,117	0	0	13,117	286,883	
19 - OTHER SFMTA	700,000	1,505,407	0	0	1,505,407	(805,407)	
1.3.019.01.080.07 - OTH.MTA SURVEY AND TESTING	500,000	0	0	0	0	500,000	
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	0	714	0	0	714	(714)	
1.3.019.08.040.08 - OTH.MTA 1251 MATERIALS	150,000	126,149	0	0	126,149	23,851	
1.3.019.08.080.08 - OTH.MTA OPERATION SUPPORT DUR1	50,000	1,378,544	0	0	1,378,544	(1,328,544)	
21 - ARTS COMMISSION	12,010,885	2,557,743	61,340	42,857	2,600,600	9,410,286	
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCTION COSTS	4,772,555	0	0	0	0	4,772,555	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [1227]	2,030,147	388,167	0	0	388,167	1,641,980	43
1.3.021.01.080.04 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441227]	21,000	11,386	0	0	11,386	9,614	
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.132J]	158,970	384,658	17,619	15,578	400,236	(241,266)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFUNA.CPT5441327]	0	0	0	3,324	3,324	(3,324)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441327]	0	1,957	693	0	1,957	(1,957)	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT5441327.CPT5441327]	1,500,000	1,393,660	0	0	1,393,660	106,340	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA.CPT5441327]	1,903,000	377,914	43,029	23,955	401,869	1,501,131	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [132J]	465,213	0	0	0	0	465,213	
1.3.021.97.040.06 - ARTS:ARTS COMMISSION ALLOC CO	1,160,000	0			0	1,160,000	
23 - CITY ATTORNEY'S OFFICE	2,171,781	1,555,745	0	0	1,555,745	616,036	
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	1,555,745	0	0	1,555,745	616,036	
25 - PUBLIC UTILITIES COMMISSION SEWER	(2,925,296)	0	0	0	0	(2,925,296)	
1.3.025.09.040.02 - STS.1256: SITE UTILITIES SFPUC SEWER MAIN	(2,925,296)					(2,925,296)	
26 - PLANNING	137,062	22,763	0	514	23,277	113,785	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] May 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	22,763	0	514	23,277	113,785	
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	2,538,288	154,322	48,142	2,586,430	1,655,582	
1.3.028.02.040.02 - CM:CTYCO-PUBLIC UTIL COMM. (PUC)	0	4,745	0	0	4,745	(4,745)	
1.3.028.02.040.08 - PUC: FIELD OPERATIONS TUNNEL	398,400	538,067	0	165	538,233	(139,833)	
1.3.028.02.080.04 - PUC:MTA CSP CN1252 [470465]	105,000	91,587	0	0	91,587	13,413	
1.3.028.03.040.02 - PUC:CDD CONTRACT 1300/UMS SUPPORT	606,354	101,986	621	6,181	108,167	498,187	
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	30,363	0	0	30,363	199,637	
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	164,609	2,520	4,392	169,001	102,754	
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	6,956	0	0	6,956	108,044	
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	187,145	4,216	3,236	190,381	259,901	
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	4,008	0	1,300	5,308	178,692	
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	0	145,839	131,704	0	145,839	(145,839)	
1.3.028.07.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1250	248,035	291,501	0	0	291,501	(43,466)	
1.3.028.07.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1250	74,468	113,844	0	0	113,844	(39,376)	
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1251 [445]	565,389	318,130	0	0	318,130	247,259	
1.3.028.08.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1251	266,252	289,424	0	0	289,424	(23,172)	
1.3.028.09.040.02 - PUC:CMB CONTRACT 1300/STS SUPPORT	520,077	179,244	9,158	26,923	206,167	313,910	
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	70,840	6,103	5,946	76,786	130,214	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	1,150,459	(217,585)	2,966	3,312	(214,272)	1,218,468	
1.3.032.01.080.04 - CM:DPW:1424J-BUREAU OF ENGINEERING (BOE) [AB12]	60,000	(285,405)	0	0	(285,405)	345,405	
1.3.032.03.080.04 - DPW IDC HYDRAULIC CN1300 UMS SUPPORT	297,938	3,307	856	3,312	6,619	291,319	
1.3.032.04.080.04 - DPW IDC HYDRAULIC CN1300 CTS SUPPORT	295,639	8,890	0	0	8,890	286,749	
1.3.032.05.080.04 - DPW IDC HYDRAULIC CN1300 YBM SUPPORT	301,882	21,887	0	0	21,887	279,995	
1.3.032.06.080.04 - DPW: BOE: 1300 DSDC	6,000	0	0	0	0	6,000	
1.3.032.08.080.04 - DPW:HYRDDPW-BOE IDC ENG SVC DC	9,000	0	0	0	0	9,000	
1.3.032.09.080.04 - DPW IDC HYDRAULIC CN1300 STS SUPPOR	180,000	33,736	2,110	0	33,736	146,264	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	6,695,348	4,792,495	111,396	67,947	4,860,442	1,834,906	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [CD12]	730,000	1,207,603	0	0	1,207,603	(477,603)	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [13AC12]	206,000	138,397	0	0	138,397	67,603	
1.3.034.01.080.04 - DPW:BCM LABOR [2113]	2,140,142	2,140,142	0	0	2,140,142	0	
1.3.034.06.080.04 - DPW:CONSTR:1300 CM [13CP12]	3,619,206	1,306,353	111,396	67,947	1,374,300	2,244,906	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	465,562	110,294	0	0	110,294	436,268	
1.3.036.01.080.04 - DPW:MPPG:DPW-BUREAU OF ST USE	417,129	32,680	0	0	32,680	384,449	
1.3.036.02.080.04 - DPW:MPPG:1300-DPW-BUREAU OF ST USE	0	33,084	0	0	33,084	(33,084)	
1.3.036.02.080.06 - DPW:MPPG:DPW-BUREAU OF ST USE	90,000	44,530	0	0	44,530	45,470	
1.3.036.06.080.06 - DPW:MPPG:BSM PERMIT REVIEW	39,433	0	0	0	0	39,433	
37 - DPW - PCS MATERIAL TESTING LABORATORY	83,100	0	0	0	0	83,100	
1.3.037.01.080.07 - DPW.MTL.LABDPW-MATERIAL TESTIN	83,100	0	0	0	0	83,100	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	622,474	942,284	2,297	0	942,284	(319,810)	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [132112]	8,621	506,858	0	0	506,858	(498,237)	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2213]	92,459	92,459	0	0	92,459	0	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
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1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2250]	78,400	78,400	0	0	78,400	0	
1.3.039.01.080.04 -DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2257]	151,515	151,515	0	0	151,515	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2313]	24,343	24,343	0	0	24,343	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION	58,757	10,109	0	0	10,109	48,648	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CE13]	31,367	31,367	0	0	31,367	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CH13]	100,000	8,621	0	0	8,621	91,379	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	17,000	0	0	0	0	17,000	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1252 [13CE11]	18,632	16,880	0	0	16,880	1,753	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1300 [13CH11]	41,379	21,732	2,297	0	21,732	19,647	
46 - MACY'S WEST - SFPUC SEWER WORK	258,202	258,202	0	0	258,202	0	
1.3.046.08.040.02 - MCY.SWRC. CONTRACT: MACY'S-SEW	258,202	258,202	0	0	258,202	0	
51 - 821 HOWARD STREET	4,690,481	561,908	13,650	18,169	580,077	4,110,404	
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	4,625,481	549,145	13,650	14,048	563,192	4,062,289	
1.3.051.02.080.04 - ODC.HWRD:ODCs - TUNNEL CONTRACT 1252	10,000	1,056	0	0	1,056	8,944	
1.3.051.06.080.04 - ODC.HWRD:ODCs - STATION CONTRACT 1300	55,000	11,708	0	4,122	15,829	39,171	
55 - 651 BRANNAN	0	10,348	0	0	10,348	(10,348)	
1.3.055.01.080.03 - CM:ODCs - 651 BRANNAN STREET	0	10,348	0	0	10,348	(10,348)	44
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	42,373,401	27,666,925	937,084	500,000	28,166,925	14,206,476	
1.3.063.01.080.03 - CM:PM:AECOM.CS149 OM-EPC JV CS149-PM	9,507,939	6,017,804	200,000	200,000	6,217,804	3,290,135	45
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3B]	5,218,630	3,469,213	300,000	300,000	3,769,213	1,449,417	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3E]	7,000,000	7,982,813	0	0	7,982,813	(982,813)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3F]	0	3,248,383	398,284	0	3,248,383	(3,248,383)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9B]	11,042	11,042	0	0	11,042	(0)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9D]	550,000	515,694	0	0	515,694	34,306	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9E]	600,000	523,943	0	0	523,943	76,057	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9F]	0	318,089	38,801	0	318,089	(318,089)	
1.3.063.01.080.04 - FD:CM:EPC JV CS49-PM [123A]	5,579,945	5,579,945	0	0	5,579,945	0	
1.3.063.97.080.03 - AECOM.CS149 ALLOCAT CONTING	13,905,845					13,905,845	
67 - HILL INTERNATIONAL CONTRACT 156	11,000,000	1,870,443	75,702	74,733	1,945,176	9,054,824	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1336]	600,000	915,032	0	0	915,032	(315,032)	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1337]	9,400,000	828,150	75,702	74,733	902,883	8,497,117	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. [1330]	1,000,000	127,261	0	0	127,261	872,739	
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	121,445	0	53,429	174,874	325,126	46
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	121,445	0	53,429	174,874	325,126	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	1,358,950	1,906,365	246	246	1,906,611	(547,661)	
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	47
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	1,358,950	1,993,566	246	246	1,993,812	(634,862)	
72 - STATIONS - CONTRACT # CONTRACT 155-2	8,752,240	5,274,692	362,028	667,123	5,941,816	2,810,424	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	50,000	51,351	0	0	51,351	(1,351)	48
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	8,702,240	5,223,342	362,028	667,123	5,890,465	2,811,775	

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73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	1,784,345	76,310	47,027	1,831,372	2,996,897	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1236]	90,000	89,791	0	0	89,791	209	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1334]	4,738,269	1,694,554	76,310	47,027	1,741,581	2,996,688	
81 - UTILITIES RELOCATION #1 (PORTAL & MOS) - CONTRACT 1250	11,968,150	11,968,150	0	0	11,968,150	0	
1.3.081.07.040.01 - UR1.CONTRACT 1250:SITWORK: DEMOLIT	167,458	167,458	0	0	167,458	0	
1.3.081.07.040.02 - UR1.CONTRACT 1250:SITWORK: UTILITI	10,099,341	10,099,341	0	0	10,099,341	0	
1.3.081.07.040.03 - UR1.CONTRACT 1250:SITWORK:HAZMAT	453,321	453,321	0	0	453,321	0	
1.3.081.07.040.08 - UR1.CONTRACT 1250:SITWORK:TEMPORAR	1,248,030	1,248,030	0	0	1,248,030	0	
82 - UTILITIES RELOCATION #2 (UMS) - CONTRACT 1251	20,794,582	20,794,582	0	0	20,794,582	0	49
1.3.082.08.040.01 - UR2.CONTRACT 1251:SITWORK: DEMOLIT	752,240	752,240	0	0	752,240	0	
1.3.082.08.040.02 - UR2.CONTRACT 1251:SITWORK:UTILITI	10,328,044	10,328,044	0	0	10,328,044	0	
1.3.082.08.040.03 - UR2.CONTRACT 1251:SITWORK:HAZMAT	172,712	172,712	0	0	172,712	0	
1.3.082.08.040.05 - UR2.CONTRACT 1251:SITWORK: STRUCTU	2,706,431	2,706,431	0	0	2,706,431	0	
1.3.082.08.040.06 - UR2.CONTRACT 1251:SITWORK:PEDESTRA	319,317	319,317	0	0	319,317	0	
1.3.082.08.040.07 - UR2.CONTRACT 1251:SITWORK:AUTO/BUS	190,362	190,362	0	0	190,362	0	
1.3.082.08.040.08 - UR2.CONTRACT 1251:SITWORK:TEMP FAC	6,325,476	6,325,476	0	0	6,325,476	0	
GUIDEWAY TUNNELS TOTAL	235,913,500	234,881,397	0	0	234,881,397	1,032,103	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE	233,584,015	233,357,072	0	0	233,357,072	226,943	50
1.3.083.02.010.06 - CONTRACT 1252:GUIDEWAY:UNDERGRN'D CUT	60,446,425	61,377,878	0	0	61,377,878	(931,453)	
1.3.083.02.010.07 - CONTRACT 1252:GUIDEWAY:UNDERGROUND	105,423,090	105,164,927	0	0	105,164,927	258,163	
1.3.083.02.020.03 - CONTRACT 1252: STATIONS: UNDERGROUND	21,685,000	21,685,000	0	0	21,685,000	0	
1.3.083.02.040.01 - CONTRACT 1252:SITWORK:DEMO CLEARING	2,440,000	2,440,000	0	0	2,440,000	0	
1.3.083.02.040.02 - CONTRACT 1252:SITWORK:UTILITIES & RE	10,895,000	10,487,676	0	0	10,487,676	407,324	
1.3.083.02.040.03 - CONTRACT 1252:SITWORK:HAZMAT&MITIGAT	200,000	200,000	0	0	200,000	0	
1.3.083.02.040.04 - CONTRACT 1252:SITWORK:ENVIRON. MITIG	300,000	54,292	0	0	54,292	245,708	
1.3.083.02.040.06 - CONTRACT 1252:SITWORK:PED/BIKE ACCES	50,000	50,000	0	0	50,000	0	
1.3.083.02.040.07 - CONTRACT 1252:SITWORK:AUTO/BUS ACCES	1,345,000	1,345,000	0	0	1,345,000	0	
1.3.083.02.040.08 - CONTRACT 1252:SITWORK:TEMP FACILITIE	30,799,500	30,552,299	0	0	30,552,299	247,201	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMODs	1,829,687	1,524,325	0	0	1,524,325	305,362	51
1.3.083.83.010.06 - CONTRACT 1252: CONTRACT MOD	112,251	90,918	0	0	90,918	21,334	
1.3.083.83.010.07 - CONTRACT 1252: CONTRACT MOD	1,941,810	1,775,627	0	0	1,775,627	166,183	
1.3.083.83.020.03 - CONTRACT 1252: CONTRACT MOD	1,004,156	953,605	0	0	953,605	50,551	
1.3.083.83.040.02 - CONTRACT 1252: CONTRACT MOD	1,050,847	817,432	0	0	817,432	233,415	
1.3.083.83.040.03 - CONTRACT 1252: CONTRACT MOD	453,475	453,475	0	0	453,475	0	
1.3.083.83.040.08 - CONTRACT 1252: CONTRACT MOD	(2,732,852)	(2,566,731)	0	0	(2,566,731)	(166,121)	
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	499,798	0	0	0	0	499,798	52
CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL	859,601,400	371,488,082	8,606,974	9,391,685	380,879,767	478,721,633	53
84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253	294,030,590	151,234,727	4,230,787	4,198,219	155,432,946	138,597,644	18
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,822,452	129,320,039	3,488,168	3,897,538	133,217,577	120,604,875	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	1,335,881	0	0	1,335,881	8,129,813	
1.3.084.03.040.01 - UMS.1253: DEMOLITION CLEARING	6,071,588	5,711,588	632,500	50,000	5,761,588	310,000	

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1.3.084.03.040.02 - UMS.1253: SITE UTILITIES UTIL	3,971,620	2,060,209	25,858	135,000	2,195,209	1,776,411	
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	317,888	0	0	317,888	232,112	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	145,875	0	48,625	194,500	50,000	
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	12,501	0	0	12,501	6,468	
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,547,185	48,001	0	0	48,001	1,499,184	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	10,398,701	9,655,205	34,261	14,556	9,669,761	728,940	
1.3.084.03.050.02 - UMS.1253: TRAFFIC SIGNALS AND	4,773,076	2,550,000	50,000	50,000	2,600,000	2,173,076	
1.3.084.03.050.03 - UMS.1253: TRACTION POWER SUPPL	1,815,534	9,001	0	0	9,001	1,806,533	
1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	66,038	0	0	66,038	150,919	
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	2,501	0	2,500	5,001	1,129,313	
84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs	191,294	111,258	0	0	111,258	80,036	
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	37,456	21,258	0	0	21,258	16,198	
1.3.084.84.020.07 - CMOD:UMS.1253: ELEVATORS, ESCALATORS	90,000	90,000	0	0	90,000	0	
1.3.084.84.040.02 - CMOD:UMS.1253: SITE UTILITIES UTIL	63,838	0	0	0	0	63,838	
1.3.084.94.020.03 - UMS.1253: AC: ALLOC CONTING	4,808,706	0	0	0	0	4,808,706	54
85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254	247,567,810	96,859,619	1,841,588	2,028,370	98,887,989	148,679,821	
1.3.085.04.010.07 - CTS.1254: GUIDEWAY: UNDERGROUND TUNNEL	76,417,579	13,346,245	801,000	1,891,956	15,238,201	61,179,378	
1.3.085.04.020.03 - CTS.1254: UNDERGROUND STATION	133,001,053	60,251,253	813,897	106,223	60,357,476	72,643,577	
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	1,112,501	62,500	0	1,112,501	5,700,355	
1.3.085.04.040.01 - CTS.1254: DEMOLITION CLEARING	400,000	400,000	0	0	400,000	0	
1.3.085.04.040.02 - CTS.1254: SITE UTILITIES UTIL	6,001,718	4,528,086	146,500	10,000	4,538,086	1,463,632	
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	12,500	0	0	12,500	337,500	
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	206,064	0	0	206,064	119,601	
1.3.085.04.040.06 - CTS.1254: PEDESTRIAN/BIKE	15,000	0	0	0	0	15,000	
1.3.085.04.040.07 - CTS.1254: AUTOMOBILE BUS ACCE	225,677	19,500	0	0	19,500	206,177	
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	15,804,762	0	0	15,804,762	766,560	
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	921,207	17,691	17,691	938,898	660,695	
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	227,500	0	0	227,500	3,836,427	
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	30,000	0	0	30,000	94,481	
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	0	0	2,500	2,500	1,656,438	
85 - CHINATOWN STATION (CTS) CMODs	2,602,458	834,528	514,039	0	834,528	1,767,930	55
1.3.085.85.040.01 - CMOD:CTS.1254: POWER POLE	155,956	148,212	0	0	148,212	7,744	
1.3.085.85.040.02 - CMOD:CTS.1254: SITE UTILITIES UTIL	114,570	114,570	0	0	114,570	0	
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	2,274,225	514,039	514,039	0	514,039	1,760,186	
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	57,707	57,707	0	0	57,707	0	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	2,322,542	0	0	0	0	2,322,542	56
86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255	158,089,000	83,793,455	1,202,783	1,987,843	85,781,298	72,307,702	
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	119,048,929	61,464,923	1,415,395	1,484,376	62,949,299	56,099,629	
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	804,611	0	0	804,611	4,528,676	
1.3.086.05.040.01 - YBM.1255: DEMOLITION CLEARING	657,000	657,000	0	0	657,000	0	
1.3.086.05.040.02 - YBM.1255: SITE UTILITIES UTIL	6,520,189	5,735,219	0	55,000	5,790,219	729,971	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] May 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	1,392,226	(107,346)	159,995	1,552,221	1,077,218	
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	84,476	25,000	0	84,476	15,524	
1.3.086.05.040.06 - YBM.1255: PEDESTRIAN/BIKE	16,665	1	0	0	1	16,664	
1.3.086.05.040.07 - YBM.1255: AUTOMOBILE BUS ACCE	1,542,725	491,401	0	0	491,401	1,051,324	
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	12,184,817	(147,948)	146,799	12,331,616	3,233,137	
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	916,480	17,682	141,673	1,058,153	668,339	
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	59,800	0	0	59,800	3,648,625	
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	2,501	0	0	2,501	1,238,595	
86 - YERBA BUENA MOSCONE STATION (YBM) CMODs	(1,073,031)	602,929	350,275	0	602,929	(1,675,960)	
1.3.086.86.040.01 - CMOD:YBM.1255: DEMOLITION CLEARING	84,509	0	0	0	0	84,509	
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	673,151	599,751	350,275	0	599,751	73,400	
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	(1,830,691)	3,178	0	0	3,178	(1,833,869)	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	6,073,032	0	0	0	0	6,073,032	57
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	37,494,620	449,283	864,200	38,358,820	101,630,180	
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (ALLOWS CROSS TRAFFIC)	2,860,000	145,000	0	0	145,000	2,715,000	
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	10,274,450	412,501	0	12,000	424,501	9,849,949	
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,510,764	1,255,733	75,000	78,000	1,333,733	15,177,031	
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	2,606,871	10,000	0	2,606,871	4,154,219	
1.3.087.09.010.12 - STS.1256: TRACK: SPECIAL	4,449,637	2,618,600	0	0	2,618,600	1,831,037	
1.3.087.09.020.01 - STS.1256: AT-GRADE STATION	6,673,138	1,320,815	11,781	98,353	1,419,168	5,253,970	
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,509,893	8,684,330	178,842	571,263	9,255,593	8,254,300	
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	183,626	0	0	183,626	16,374	
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	50,000	0	0	50,000	0	
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	39,001	0	0	39,001	2,077,924	
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,850,984	10,159,423	58,000	36,000	10,195,423	3,655,561	
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	6,011,513	19,250	18,890	6,030,403	21,513,048	
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,485,368	2,341,715	84,784	39,434	2,381,149	2,104,219	
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,911,014	810,640	0	7,000	817,640	9,093,374	
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	803,351	4,126	3,260	806,611	5,293,064	
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	8,028,025	51,500	7,500	0	51,500	7,976,525	
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,664,586	1	0	0	1	2,664,585	
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	1,463,954	556,946	18,219	313,053	869,999	593,955	
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	413,431	305,378	0	108,053	413,431	0	
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,219	18,219	0	18,219	2	
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	1,032,302	233,349	0	205,000	438,349	593,953	
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	3,536,045	0	0	0	0	3,536,045	58
141 - CONSTRUCTION ADMINISTRATION	2,956,812	0	0	0	0	2,956,812	
1.3.141.97.080.04 - CONSTR.ADMIN:ALLOC CONTING	2,956,812					2,956,812	
142 - LEGAL/PERMITS	2,014,204	0	0	0	0	2,014,204	
1.3.142.01.080.06 - LGL.PRMTSF:LEGAL; PERMITS	2,014,204	0	0	0	0	2,014,204	
144 - STARTUP	8,300,329	0	0	0	0	8,300,329	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] May 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.144.01.080.08 - STRT: STARTUP	6,941,907	0	0	0	0	6,941,907	
1.3.144.97.080.08 - STRTA: AC STARTUP ALLOC CONTIN	1,358,422					1,358,422	
151 - TEMPORARY LICENSE AGREEMENT	17,000	0	0	0	0	17,000	
1.3.151.01.080.06 - TEMP.LICPORARY LICENSE AGREEME	17,000	0	0	0	0	17,000	
170 - COMMUNICATIONS CONNECTIONS	5,757,629	0	0	0	0	5,757,629	
1.3.170.01.050.04 - COMM.CONNN:COMMUNICATION CONN	5,757,629	0	0	0	0	5,757,629	
181 - AON RISK INSURANCE CS 163	18,113,750	18,798,132	0	0	18,798,132	(684,382)	
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	18,088,750	18,773,132	0	0	18,773,132	(684,382)	
1.3.181.01.080.03 - AON.CS171 AON RISK INS. STUDY	25,000	25,000	0	0	25,000	0	
191 - FARE COLLECTION CONTRACTOR	5,400,000	0	0	0	0	5,400,000	
1.3.191.01.050.06 - FARE.CONSUM:FARE COLLECTION	5,400,000	0	0	0	0	5,400,000	
192 - THALES T&S CENTRAL CONTROL	487,972	50,000	0	0	50,000	437,972	
1.3.192.01.050.01 - THALES T&S ATCS	487,972	50,000	0	0	50,000	437,972	
202 - JOC2-022.0	63,938	0	0	0	0	63,938	
1.3.202.01.040.02 - JOC2-022:15&22 POTHOLING UTILI LGHT FNDS	63,938	0	0	0	0	63,938	
203 - JOC2-029.0	53,317	0	0	0	0	53,317	
1.3.203.07.040.02 - JOC0292-029: RELOCATE VAULTS-S	53,317	0	0	0	0	53,317	
302 - PG&E	1,988,173	2,749,912	0	0	2,749,912	(761,739)	
1.3.302.03.050.03 - PGE PERMANENT POWER UMS	(2,350,000)	0	0	0	0	(2,350,000)	
1.3.302.03.050.03 - PGE POWER FEED UMS	2,959,826	115,690	0	0	115,690	2,844,136	
1.3.302.04.050.03 - PGE PERMANENT POWER CTS	(2,350,000)	0	0	0	0	(2,350,000)	
1.3.302.04.050.03 - PGE POWER FEED CTS	2,959,826	0	0	0	0	2,959,826	
1.3.302.05.050.03 - PGE PERMANENT POWER YBM	(2,368,540)	0	0	0	0	(2,368,540)	
1.3.302.05.050.03 - PGE POWER FEED YBM	3,125,222	2,634,222	0	0	2,634,222	491,000	
1.3.302.09.050.03 - PGE POWER FEED STS	11,839	0	0	0	0	11,839	
331 - BAY AREA RAPID TRANSIT (BART)	951,356	60,455	0	0	60,455	890,901	
1.3.331.01.080.04 - CM:SFMTA LABOR-ENG SVCS-IRP/BART/SF	0	33,152	0	0	33,152	(33,152)	
1.3.331.01.080.06 - CM: BAY AREA RAPID TRANSIT (BART) [122A]	951,356	27,304	0	0	27,304	924,052	
333 - AMERICAN PUBLIC TRANSP. ASSOCIATION (APTA) CS-APTA	146,500	54,612	0	0	54,612	91,888	
1.3.333.01.080.03 - APTA:APTA - IRP [2G]	46,500	27,304	0	0	27,304	19,196	
1.3.333.01.080.03 - APTA:APTA - IRP [2C]	100,000	27,308	0	0	27,308	72,692	
334 - BART FARE COLLECTION SYSTEM	700,000	0	0	0	0	700,000	
1.3.334.01.050.06 - BART:BART FARE COLLECTION EQP	700,000	0	0	0	0	700,000	
401 - ECONOMIC AND WORKFORCE DEVELOPMENT (EWD)	17,600	17,600	0	0	17,600	0	
1.3.401.01.080.04 - EWD: MAYORS OFFICE ECON DEV	17,600	17,600	0	0	17,600	0	
402 - DEPARTMENT OF TECHNOLOGY	242,371	237,534	0	0	237,534	4,837	
1.3.402.07.050.04 - DT:1UTL:COMM. CONNECTIONS	166,756	166,179	0	0	166,179	577	
1.3.402.08.050.04 - DT:2UTL:COMM.CONNECTIONS	75,615	71,354	0	0	71,354	4,261	
404 - DEPARTMENT OF BUILDING INSPECTION (DBI)	1,204,081	1,204,081	0	0	1,204,081	0	
1.3.404.01.080.06 - DPT OF BUILDING INSPECTION	1,204,081	1,204,081	0	0	1,204,081	0	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] May 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
491 - FORM B - REIMBURSEMENT	(12,227,954)	0	0	0	0	(12,227,954)	
1.3.491.02.040.02 - FORMB - CONTRACT 1252 UTILITY REIMBUR	(254,050)	0			0	(254,050)	59
1.3.491.03.040.02 - FORMB - UMS:CONTRACT 1300 UTILITY REIMBURSEMENT	(528,370)	0			0	(528,370)	60
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEMENT	(451,703)	0			0	(451,703)	61
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEMENT	(100,000)	0			0	(100,000)	62
1.3.491.06.040.02 - FORMB - CONTRACT 1300 UTILITY REIMBUR	0	0			0	0	63
1.3.491.07.040.02 - FORMB - CONTRACT 1250 UTILITY REIMBUR	(2,275,419)	0			0	(2,275,419)	64
1.3.491.08.040.02 - FORMB - CONTRACT 1251 UTILITY REIMBUR	(7,618,412)	0			0	(7,618,412)	65
1.3.491.09.040.02 - FORMB - STS:CONTRACT 1300 UTILITY REIMBURSEMENT	(1,000,000)	0			0	(1,000,000)	66
TOTAL CONSTRUCTION PHASE	1,328,140,481	736,402,563	11,069,867	11,350,030	747,752,593	580,359,772	
1.4.091.01.070.01 - LRVs: LIGHT RAIL VEHICLES RFP [34B]	1,325,000	1,319,773	0	0	1,319,773	5,227	
1.4.091.01.070.01 - LRVs: LIGHT RAIL VEHICLES PROJECT MGT [68E]	827,132	827,933	502	246	828,179	(1,047)	
1.4.091.01.070.01 - LRVs: LRV PROCUREMENT ODC	25,000	0	0	0	0	25,000	
1.4.091.01.070.01 - LRVs: LRV PROCUREMENT	11,131,868	0	0	0	0	11,131,868	
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	13,076,653					13,076,653	21
TOTAL VEHICLES	26,385,653	2,147,706	502	246	2,147,952	24,237,701	
1.5.015.01.060.01 - RE: EASEMENT ACQUISIT	400,000	322,939	0	0	322,939	77,061	
1.5.015.01.060.01 - RE: REAL EST SITE ACQ	16,523,400	14,307,667	0	0	14,307,667	2,215,733	
1.5.015.01.060.01 - RE: REAL ESTATE	750,000	766,272	0	0	766,272	(16,272)	
1.5.015.01.060.01 - RE: REC & PARK MOU	6,987,624	6,987,624	0	0	6,987,624	0	
1.5.015.01.060.01 - RE:-DEPT OF TRANSPOR	2,686,000	2,686,000	0	0	2,686,000	0	
1.5.015.01.060.01 - RE:-LICENSES FEES	400,000	381,311	0	0	381,311	18,689	
1.5.015.97.060.01 - RE:A:AC: RE: REAL ESTATE ALLO	5,265,478					5,265,478	
1.5.023.01.060.01 - ATTY:REAL ES	2,212,882	2,678,858	0	0	2,678,858	(465,976)	
1.5.101.01.060.02 - RES.RELO: RELOCATION COST	1,275,200	1,289,701	0	0	1,289,701	(14,501)	
1.5.102.01.060.02 - COMM.RELO-RELOC COMMERCIAL	905,311	1,119,729	0	0	1,119,729	(214,418)	
TOTAL ROW, LAND, EXISTING IMPROVEMENTS	37,405,895	30,540,101	0	0	30,540,101	6,865,794	
90 - CONTINGENCY	79,713,257					79,713,257	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	24,749,924					24,749,924	67
TOTAL ALLOCATED CONTINGENCY	54,963,333					54,963,333	
TOTAL PROJECT COST	1,578,300,001	929,939,896	11,070,369	11,350,276	941,290,172	636,981,713	

7.1 Program Project Budget	
1	The Central Subway Project (CSP) (SFMTA Capital Program CPT 544) is defined in the FTA-SFMTA October 2012 Full Funding Grant Agreement with a budget of \$1.578 billion.
2	The TBM Retrieval Shaft Relocation (SFMTA Capital Program CPT 690) is one of four capital projects that is related to CSP. These projects are reported for background information as needed outside of the main body of the Project Monthly Progress Report.
3	The Chinatown Plaza (CPT 718) is for Chinatown Station enhancement capital project. The project has funding outside of the Central Subway Project. The construction is carried out in Contract 1300 Contract Modifications.
4	CPT 665 is a Real Estate project to relocation in compliance with California regulations for business relocations but outside of the Central Subway Project as defined by the FTA FFGA.
5	CPT 705 is an SFMTA capital improvement between the Agency and community stakeholders outside of the Central Subway Project.
6	Utility company reimbursements (Form B) result in funds received for work carried out on behalf of utilities concurrent to CSP work to achieve efficiencies.
7	PG&E Power Feed reimbursement funds are the refunds from PG&E when completion of Stations construction and switch to permanent power.
8	BART Elevator funds are reimbursements for work carried out on behalf of BART to install BART Powell Street Station elevator.
9	The Tutor Perini - CAD Files funds are the result of payments by the contractor for project documentation not included in the contract.
10	SFPUC Sewer Main funds are reimbursements for work carried out on behalf of San Francisco PUC (includes 10% construction contingency).
11	Traffic Effectiveness Project funded Contract Modification #40 for Culvert, Street & Sidewalk Restoration in North Beach are reimbursements for work carried out in Contract 1252 on behalf of SFMTA SSD.
12	SFPUC 24" Water Main funds are reimbursements for work carried out in Contract 1252 Contract Modification #41 on behalf of San Francisco PUC (includes construction management cost).
13	SFPUC North Beach 24" Water Main Additional Work funds are reimbursements for work carried out in Contract 1252 Contract Modification #48 on behalf of San Francisco PUC (includes construction management cost).
14	CN1300 Contract Modification #6 is funded by Chinatown Plaza (CPT 718) project.
14a	Traffic Effectiveness Project funded Contract Modification #51 for support for North Beach Restoration, OCS and Streetlighting which are reimbursements for work carried out in Contract 1252.

7.4 Contingency Management Trend Report	
15	In Oct 2014 Report, updated Contract 1250 contract cost to segregate contract amount and contract modification amount. Note that September 2013 Supplemental Authorized Contingency "column f" did not include completed contract.

16	In Oct 2014 Report, updated Contract 1251 contract cost to segregate contract amount and contract modification amount. Note that September 2013 Supplemental Authorized Contingency "column f" did not include completed contract.
17	Contract 1252 Original Contract Value "column a" and Original Contingency "column f" did not match September 2013 Supplemental due to Supplemental were used the revised value to reflect Contract Modifications #3-#18. Reduced Contract 1252 contingency to reflect CMod #20 for retrieval shaft relocation cost \$5.15M funded by CPT690, CMod #40 for Culvert, Street & Sidewalk Restoration cost \$694,651 funded by Traffic Effectiveness Project (TEP), and CMod #41 for install 24" Water Main in North Beach cost \$328,860 funded by SFPUC. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2106 report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS. CMod#49, #52 and #53 total \$221,967 are funded by CPS. CMod#51 Support for North Beach Restoration, OCS and Streetlighting cost of \$155,468 is being funded by TEP. Released \$155,468 CN1252 allocated contingency to program's unallocated contingency. In May 2016 report, reduced Contract 1252 contingency by \$185,913 cost to reflect certification of two CMODS.
18	BART Elevator scope and SFPUC Sewer Main scope is in Contract 1300; effort will be funded by BART. In January 2015 Report, corrected Station Contract value to match awarded amount.
19	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718. The \$75,000 has been transferred to program's unallocated contingency.
20	In April 2015 report, real estate budget stated in RAMP Rev5 is \$36.7M, including \$1M contingency. The cost workbook ROW & contingency budget reflects this with \$36,511,799 and \$1,000,000 respectively. Revised costbook ROW budget & contingency to be \$37,511,799. The \$4,265,478 Caltrans lease savings is allocated to ROW allocated contingency.
21	In Dec 2014 Report, redistributed LRV budget to reflect recent firm bid cost per vehicle (\$3,327,250/unit) from vehicle procurement contract award. (SFMTA Board meeting 15JUL14, calendar item #11). Vehicle line item total budget remains unchanged, redistributed fund by reducing base amount to \$13,309,000, column "c" and increased allocated contingency column "h", by same amount.
22	In Oct 2014 Report, made two corrections: i) revised Professional Services, Original Contract Value "column a" from \$310,518,041 to \$310,618,041, ii) revised Original Congency. "column f" unallocated contingency from \$3,883,481 to \$3,845,945. In April 2015 report, used \$500K program contingency for CS-175 Bayland Soil Process contract. In August 2015 Report, added \$15M from Contract 1252. In March 2016 Report, the \$155,468 costs funded by other project offset credits and \$75K funded by CPT718 added to program's unallocated contingency.
23	The total Central Subway Project budget of \$1.578 billion, based on the October 2012 FFGA with the FTA, is the primary MPR report reference.
24	Estimate at Completion is shown at Column "e".
25	Estimate at Completion vs. Budget variance is shown at Column "k".

7.5 Contract Modification/Trend Log - Contract 1300 Stations

26	Reported all trend cost for Contractor Change Order Requests and Proposed Contract Change and applied probability to forecasted trends. In April 2016 Report, reviewed probability formula and adjusted cost.
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7.6 Budget Revisions: Report Sorted by Construction Packages

27	In Dec 2014 Report, reduced CN1252 allocated contingency by \$28K to execute Contract Modification #46, see Report 7.5 Detail Contingency Usage Report. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, five contract modifications certified totaling \$377,435 of which \$155,468 is using another source of funding. Released \$155,648 from CN1252 Tunnel assigned contingency to program unallocated contingency. In May 2016 Report, reduced CN1252 allocated contingency by \$186K to execute Contract Modification #54 and #55, see Report 7.5 Detail Contingency Usage Report.
28	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718. The \$75,000 has been transferred to program's unallocated contingency. Refer to Report Note #19
29	Budget for Soil Process contract.
30	Program contingency increased by \$5,265,478. Refer to Report Note #20.
31	In Dec 2014 Report, redistributed LRV budget to reflect recent firm bid cost per vehicle (\$3,327,250/unit) from vehicle procurement contract award. (SFMTA Board meeting 15JUL14, calendar item #11). Vehicle line item total budget remains unchanged, redistributed fund by reducing base amount to \$13,309,000 and increased allocated contingency by same amount.
32	In April 2015 report, program contingency decreased by \$500,000. Refer to Reports #20. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, released \$155,468 from Contract 1252 Tunnel assigned contingency and \$75,000 from Contract 1300 Stations assigned contingency totaling \$230,956.

7.9 Detail Monthly Expenditure Report

Phase 1 Preliminary Engineering

33	Famis cost for Preliminary Engineering (PE) is \$48,210,903.71. Cost Report for Preliminary Engineering (PE) is \$46,542,060. Some Design cost reported in Famis were moved to Design Phase, refer to Notes #19 and #20.
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Phase 2 Design Phase

34	Famis cost adjustment to transfer Project Management cost from July 2013 to Phase 3 Construction Phase.
35	Famis Phase 1 PE Index Code: 357906.CPT5441112 cost is \$10,222,939 \$8,949,300 is reported in Cost Report Phase 1 PE and the balance of \$1,273,639 is reported in Phase 2 Design.
36	1.2.021.01.080.03 - FD:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]: FAMIS: \$1,425,167 Cost Report: \$1,425,167 cost is reported in Phase 2 Design, 1.2.021.01.080.03 Cost Transfer: Remaining cost is reported in Phase 3 Construction, 1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]

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37	1.2.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241]: FAMIS: \$2,294,910 Cost Report: \$2,294,910 1.2.055.01.080.02 Cost Transfer: Future costs to be allocated to 1.3.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241]
38	1.2.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]: FAMIS: \$4,698,167 Cost Report: \$4,698,167 on 1.2.063.01.080.03 Cost Transfer: Future costs to 1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]
39	AVA Cost \$395,204 is reported in Phase 2 Final Design 1.2.066.01.080.03
40	1.2.071.01.080.02 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336 Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
41	1.2.072.01.080.02 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609 COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
42	1.2.073.01.080.02 - FD:FINAL DESIGN-DP3 [35CPT5441236.CPT5441236]: FAMIS: \$11,502,372 COST REPORT: \$11,432,312 COST TRANSFER: \$70,060 to 1.3.073.01.080.04 - CM: DP3 [35CPT5441236.CPT5441236]

Phase 3 CONSTRUCTION PHASE	
43	1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]: FAMIS: \$1,525,982 Cost Report: \$1,425,167 1.2.021.01.080.03 Cost Transfer: any future costs to 1.3.021.01.080.03
44	1.3.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241]: FAMIS: \$2,294,910 Cost Report: \$2,294,910 1.2.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241] Cost Transfer: Future costs to be allocated to 1.3.055.01.080.02
45	1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]: FAMIS: \$4,698,167 Cost Report: \$4,698,167 on 1.2.063.01.080.03 Cost Transfer: Future costs to 1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]

46	Used \$500K program contingency for CS-175 Bayland Soil Process contract. Refer to Report Notes #20.
47	1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336 Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
48	1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609 COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
49	Contract 1251 Final cost is \$20,794,582.
50	In March 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
51	In March 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
52	In July 2015 Report, used Contract 1300 Contractor schedule to report budget and actual cost. The Standard Cost Categories (SCC) allocation changed from previous reports. In August 2015 Report, adjusted some of Contract 1300 Contractor SCC assignment to match most of previous SCC assignment. In March 2016, \$75,000 Cmod#6 subtracted from CN1300 Stations contingency (using CPT718 funding) and transferred to Program contingency; this lead to the total CN1300 Station budget being lowered.
53	Revised Contract 1252 allocated contingency SCC code from 040.08 to 010.07.
54	Revised Contract 1300/UMS allocated contingency SCC code from 040.08 to 020.03.
55	In March 2016 Report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS.
56	Revised Contract 1300/CTS allocated contingency SCC code from 040.08 to 020.03.
57	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
58	Revised Contract 1300/STS allocated contingency SCC code from 040.08 to 020.01.
59	Revised Form B Reimbursements SCC code from 900.01 to 040.02
60	Revised Form B Reimbursements SCC code from 900.01 to 040.02
61	Revised Form B Reimbursements SCC code from 900.01 to 040.02
62	Revised Form B Reimbursements SCC code from 900.01 to 040.02
63	Revised Form B Reimbursements SCC code from 900.01 to 040.02
64	Revised Form B Reimbursements SCC code from 900.01 to 040.02
65	Revised Form B Reimbursements SCC code from 900.01 to 040.02
66	Revised Form B Reimbursements SCC code from 900.01 to 040.02
67	Increase Program contingency \$1,023,508. Refer to Report Notes #11 and #12. In April 2015 report, program contingency decreased by \$500,000. Refer to Report Notes #20. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, program unallocated contingency increased by \$230,468.

Appendix B

DETAIL SCHEDULE REPORTS

SCHEDULE HIGHLIGHTS

The Master Project Schedule (MPS) below includes progress through May 2016. The May 2016 Schedule Update submittal from Contract 1300 Contractor is rejected due to incorrect schedule logic. The Contract 1300 schedule represented in this report is based on the SFMTA May 2016 Schedule Update.

The MPS shows a forecast Revenue Service Date of June 2019.

The controlling critical (longest) path of the MPS runs through CTS Excavation succeeded by STS Startup & Testing, Commissioning and Pre-Revenue Activities to the Baseline Finish and Revenue Service Date. See Appendix B – Longest Path. The latest schedule shows the longest path running through the Chinatown Station (CTS). Contractor is required to implement a Recovery Schedule to put the Project back on schedule.

Schedule Contingency is fully utilized on the critical path of the MPS, which is below the Minimum Schedule Contingency level of 6 months. A schedule re-evaluation will be performed, utilizing the updated Contract 1300 Schedule. Recovery options are being implemented in key areas as work proceeds. SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. The Contractor, Tutor Perini Corporation's (TPC) at CTS commenced a new schedule activity, SEM Mining during the month of May. TPC experienced initial lower production rates during this mining activity that resulted in a lost 14 calendar days in month of May. TPC has since improved its production rate by completing one SEM side drift advance per shift. It is not unusual for SEM production rates to initially fall behind at activity startup. TPC has identified mitigation measures, working weekends and re-sequencing critical path activities to recover lost time. Contract 1300 Schedule delay in May results in the forecast Revenue Service Date slipping to June 14, 2019.

Contract 1300 Contractor submitted eighteen (18) Schedule Updates from December 2014 to May 2016. SFMTA rejected nine (9) Schedule Updates from September 2015 to May 2016. Contractor has been directed to develop a Recovery Schedule as required by Contract and correct out-of-sequence and Retained Logic driving many of the forecast dates. Review of schedule updates as well as identifying recovery options is ongoing.

Contract 1300 - WP1253 UMS / WP1254R CTS / WP1255 YBM / WP1256 STS:

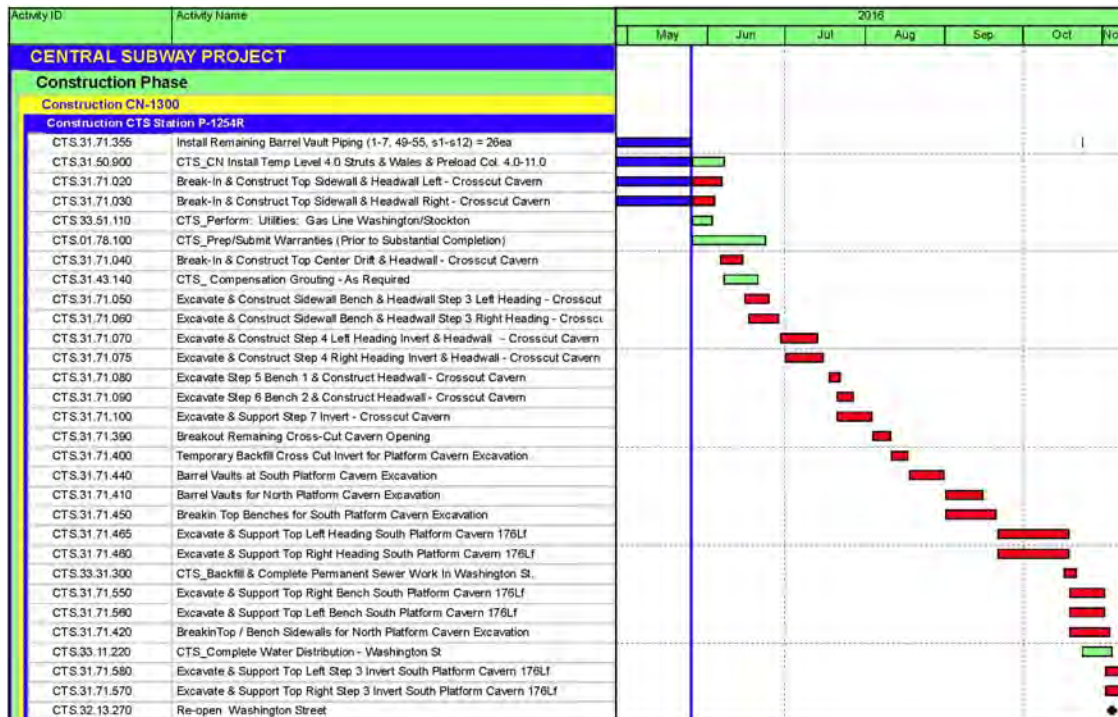
The Contractor, Tutor Perini Corporation's (TPC) baseline schedule is incorporated into the master program. The preliminary SFMTA Contract 1300 May 2016 schedule is used within the May Report. The SFMTA Contract 1300 May 2016 schedule is based on the approved baseline schedule logic with adjustments made for fixing retained logic and lags. SFMTA met with TPC on 6/2/16 to review the draft May 2016 monthly schedule update and emphasized to TPC that they should not submit revised schedule logic within this monthly update. The SFMTA will continue to use their Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of SFMTA scheduling concerns.

Work Package P-1254R (CTS) has performed the following work this month:

- Head house- excavated to Temp Level 4.0 Struts; install Walers and Struts Level 4
- Cross Cut Cavern: Begin tunneling under Stockton Street
- Incidental street work, monitoring, surveying
- North Emergency Egress Shaft – excavation continued late-May

Work Package P-1254R (CTS) will perform the following work next month

- Crosscut Cavern: continue tunneling under Stockton Street
- Compensation grouting may take place
- Head house – No work until Crosscut Cavern top headings are completed



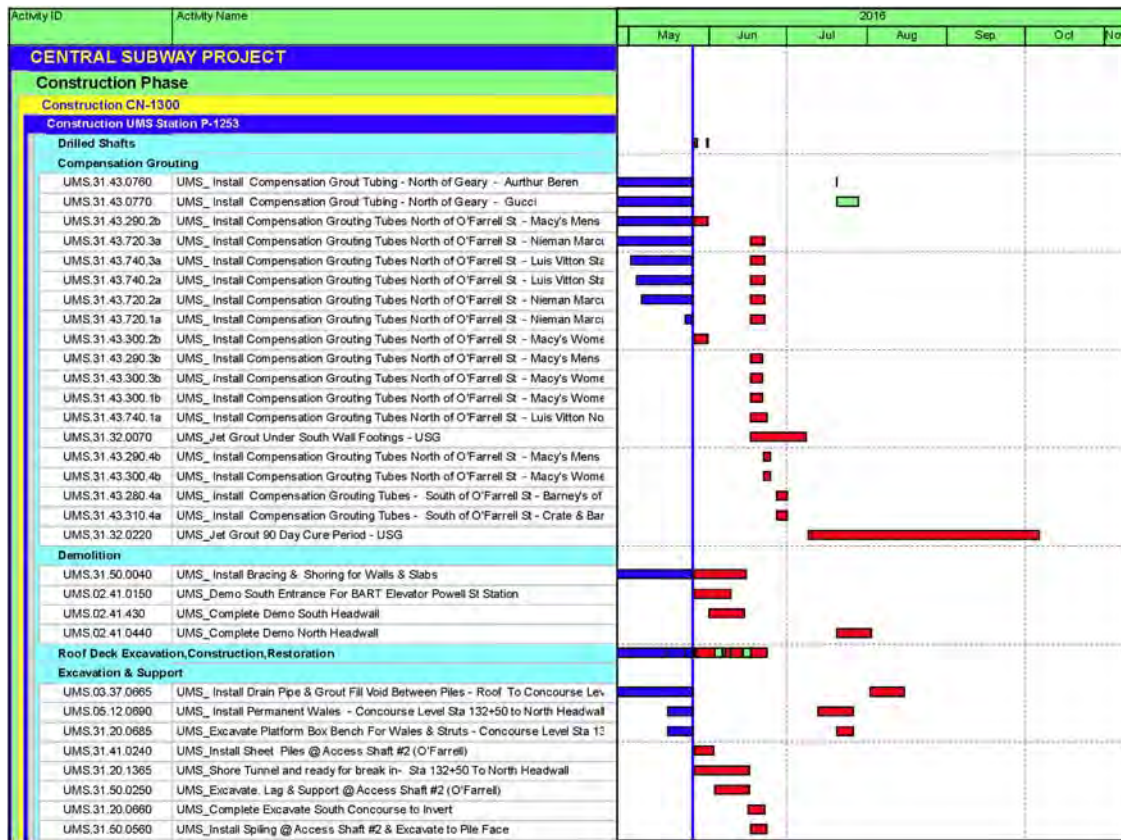
Work Package P-1253 (UMS) has performed the following work this month:

- Stockton Street closure between Geary and Ellis and there is no Southbound lane on Stockton between Post and Geary; Ellis Street one lane
- North Concourse: Chipped vertical drain slots and chipped piles for shotcrete leveling course. Installing horizontal drain pies and welded wire fabric. Installed 10 compensation grout pipes
- Platform Station: Began excavating and chipping piles for roof deck 10-5B. Continued excavation under roof deck. Drilled and installed compensation grout pipes and commenced preconditioning.

- South Concourse: Excavate/grade for concourse invert slab, chip/prepare piles for stub beams and vertical drain slot, fine grade/install base and slab drain pipes, form and pour mud slab. Install waterproofing.
- Ellis Annex: Remove and replace seismic joint, water test seismic joint, install waterproofing, grout protection course and lightweight concrete.
- UMS Garage: Continue demolition of 17-Line wall between USG and North Concourse. Continue micropile installation on the Geary Street Wall. Continue FRP B-line wall.

Work Package P-1253 (UMS) will perform the following work next month:

- Restore one lane on Stockton Street between Post and Geary Streets. O'Farrell full closure has been requested
- North Concourse: Complete backfill and install paving. Below deck: continue installation of nelson studs and shotcrete leveling course. Complete installation of compensation grout pipes and continue preconditioning
- Platform Station: For roof deck 10-5B: set/weld beams, install waterproofing, and install concrete. Continue installing jet grout columns. Continue excavation
- South Concourse: Move jet grout spoils handling to Roof Deck 3B. Chip/prepare piles for stub beams/vertical drain slots. Install pipe, fabric, and shotcrete
- Ellis Annex: Remove and replace seismic joint, install steel plates, water test seismic joint, install waterproofing, grout protection course and lightweight concrete
- UMS Garage: UMS Garage: Continue demolition of 17-Line wall between USG and North Concourse. Complete demolition of garage floor slab and complete micropile installation. Complete FRP B-line wall

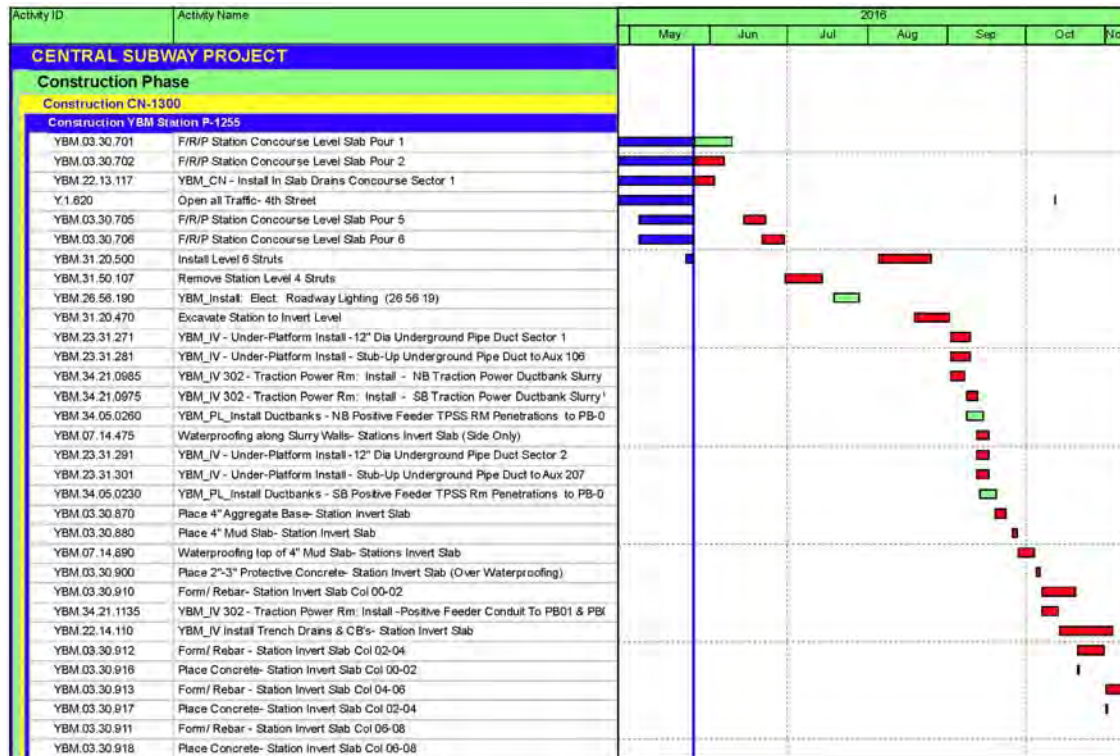


Work Package P-1255 (YBM) has performed the following work this month:

- Concourse level concrete pour 3 of 3 completed
- Continue excavation and temporary bracing installation in head house below the Concourse level to allow excavation to Invert level (bottom of station)
- Break through and remove tunnel liner to allow excavation to Invert level within station box
- Continue utility installation on 4th Street north of the north headwall
- Place shotcrete for interior walls in Mezzanine

Work Package P-1255 (YBM) will perform the following work next month:

- Demo and remove tunnel liner segments within Station Box
- Continue excavation and Temporary Strut Bracing Level 6 installation in Station Box and Head House to allow Invert level slab construction
- Continue utility installation on 4th Street north of the north headwall
- Continue placing shotcrete interior walls in Mezzanine and Concourse



Work Package P-1256 (STS) has performed the following work this month:

- Continue Muni ductbank installation
- Continue 78" sewer rehabilitation
- Continue 36" sewer force main
- Continue Auxiliary Water Supply System (AWSS) installation
- Continue water line work
- Continue OCS pole foundation installation
- Continue tunnel drainage system installation
- Continue tunnel invert slab work

Work Package P-1256 (STS) will perform the following work next month:

- Continue 78" sewer rehabilitation
- Continue MRY ductbank and vault installation
- Continue 36" sewer force main
- Continue AWSS installation
- Continue waterline installation
- Continue OCS pole foundation installation
- Continue tunnel drainage system installation

- Continue tunnel invert slab work

Activity ID	Activity Name	2016					
		May	Jun	Jul	Aug	Sep	Oct
CENTRAL SUBWAY PROJECT							
Construction Phase							
Construction CN-1300							
Construction STS P-1256							
STS.33.11.210	STS_Install: Utilities: Auxiliary Water Supply 12" Main 4th St (Through Townsend						
STS.28.05.120	STS_Install: Utilities: 230Kv Electrical Transmission Casing - Assist PG&E - 4th						
STS.33.11.170	STS_Install: Utilities: Auxiliary Water Supply 12" Main 4th St (Through Brannan St						
STS.33.51.150	STS_Pathole: Utilities: Pothole for Gas Distribution						
STS.33.31.630	Sewer Manhole relocation at King St/ 4th Street						
STS.33.31.420	STS_Install New CB's Manhole, 10' & 15" Sewer Piping @ 4th St/Townsend - We						
STS.33.11.340	STS_Install: Utilities: Track Drainage- 4th St (Brannan St To Bluxome St)						
STS.33.51.115	STS_PG&E Design Detail Period: Utilities: Gas Distribution 6" Main/Casing - 4th						
STS.33.11.350	STS_Install: Utilities: Track Drainage- 4th St (Bluxome St To Townsend St)						
STS.33.31.400	STS_Install New 27" Sewer PipeCasing Connecting Offset Manhole To East MH @						
STS.33.31.340	STS_Install New Sewer Laterals & Sleeves East Side 4th Street - Brannan To Blux						
STS.33.31.445	Install New 48" Gravity Sewer Main Manhole @ 4th/Welsh St						
STS.33.31.410	STS_Install New CB's, 10" & 24" Sewer Piping @ 4th St/Townsend - East Side						
STS.33.31.360	STS_Install New Sewer Laterals & Sleeves East Side 4th Street - Bluxome To Tow						
STS.33.31.450	Install New 48" Gravity Sewer Main - Bryant St To Welsh St.						
STS.33.31.470	Install New 48" Gravity Sewer Main Manhole @ 4th/Freelon St						
STS.33.11.270	STS_Install: Utilities: Sewer: Casing for 10" Force Main - 4th St Sta @ Brannan S						
STS.28.05.0290	STS_Install: Tunnel Electrical - Unistrut For Conduit & Signal Supports - NB Porta						
STS.28.05.0530	STS_Install: Tunnel Electrical - Unistrut For Conduit & Signal Supports - SB Porta						
STS.33.31.280	STS_Install New 18" Sewer Lateral In Welsh St To Future 48" Manhole						
STS.33.31.390	STS_Install New Sewer Manhole @ 4th St/Townsend - East Side						
STS.33.31.430	STS_Install New Sewer Laterals & Sleeves West Side 4th Street - Townsend To K						
STS.28.20.1790	STS_Install: Tunnel Electrical - CCTV Cameras - SB Portal To Moscone						
STS.34.42.0900	STS_Install: Train Control - Train Control Signals - SB Portal To Moscone						
STS.34.42.2310	STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone						
STS.28.05.0560	STS_Install: Tunnel Electrical - Telephone Conduit - & JB's SB Portal To Moscon						
STS.27.32.0910	STS_Install: Tunnel Electrical - Radiax Conduit - & JB's SB Portal To Moscone						
STS.28.05.0550	STS_Install: Tunnel Electrical - Electrical Power Conduit & JB's - SB Portal To Mc						
STS.28.05.0360	STS_Install: Tunnel Electrical - Electrical Power Conduit & JB's - NB Portal To Mc						
STS.28.20.0570	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Portal To Moscone						
STS.28.05.0405	STS_Install: Tunnel Electrical - Traction Power Conduit - NB Portal to Moscone						
STS.28.05.0640	STS_Install: Tunnel Electrical - Traction Power Conduit - SB Portal to Moscone						
STS.33.31.440	STS_Install New Sewer Laterals & Sleeves East Side 4th Street - Townsend To KI						
STS.33.31.120	Install New 36" Force Main Sewer @ 4th/Bryant						
STS.33.31.480	Install New 48" Gravity Sewer Main - Welsh St. To Freelon St						
STS.28.05.0630	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Portal To M						

SCHEDULE REVISIONS

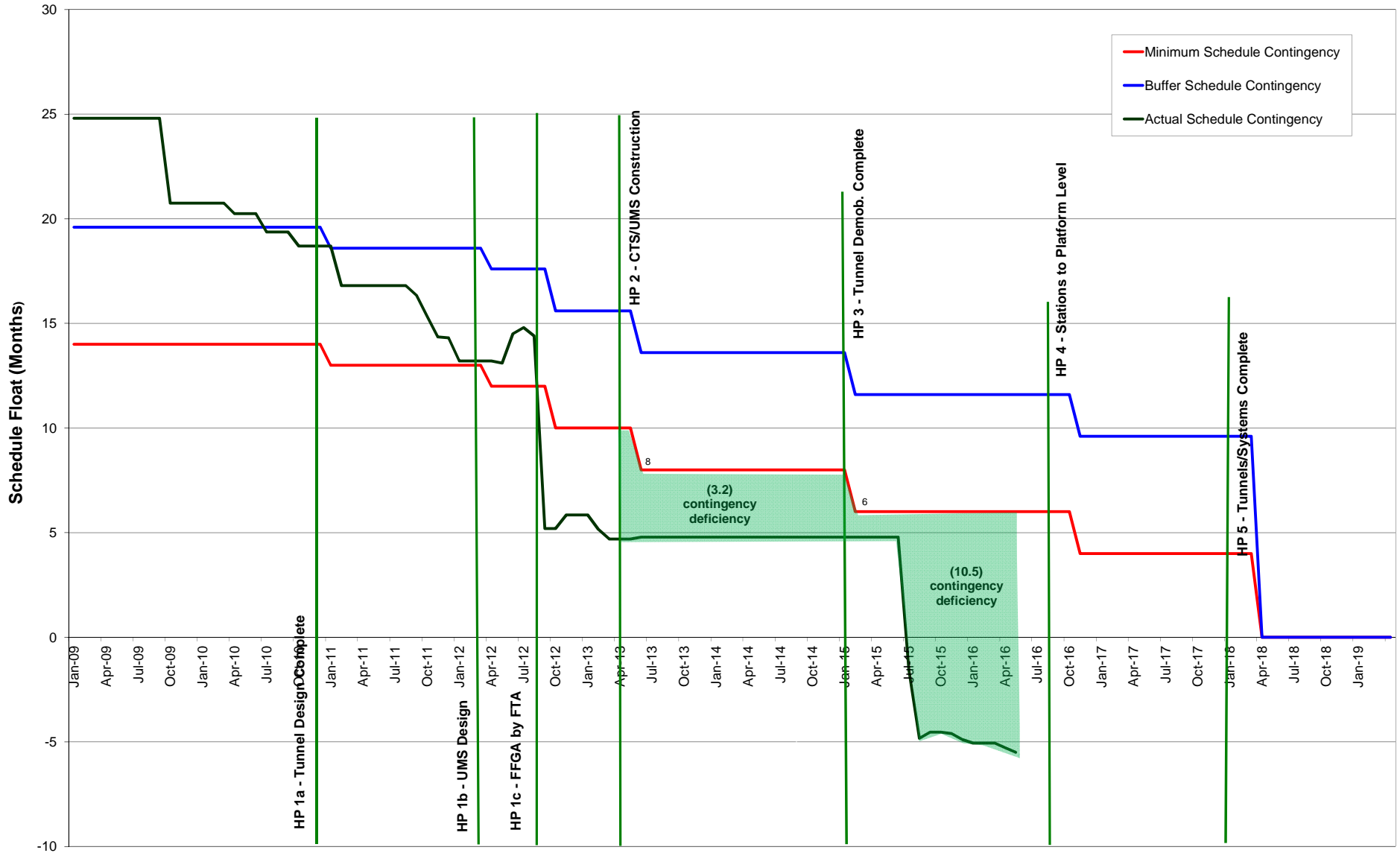
The SFMTA Contract 1300 May 2016 schedule update was added this period to the Central Subway Project Master Schedule.

LIST OF SCHEDULE REPORTS

- 1.1. Schedule Contingency Drawdown
- 1.2. Master Summary Schedule
- 1.3. Program Critical Path Schedule
- 1.4. Construction Contract Summary Schedule
- 1.5. Detail Schedule for Remaining Work

CENTRAL SUBWAY PROJECT Schedule Contingency Drawdown

May, 2016



Activity ID	Activity Name	Original Duration	Start	Finish	2016			2017				2018				2019				2020		
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
CENTRAL SUBWAY PROJECT					CENTRAL SUBWAY PROJECT																	
Program Level Milestones					Program Level Milestones																	
PJD1000	Central Subway Project Start	0	06/03/03 A																			
MS0004A	Tunnel Excavation Complete - Project Milestone #4A	0		09/05/14 A #4A																		
MS0019	Baseline Finish Date: 12-26-2018	0		06/14/19*	◆ Baseline Finish Date: 12-26-2018																	
MS0009	CSP Revenue Service Date	0		06/14/19*	◆ CSP Revenue Service Date																	
Preliminary Engineering Phase																						
Final Design																						
Light Rail Vehicles					Light Rail Vehicles																	
Real Estate					Real Estate																	
Construction Phase					Construction Phase																	
Construction Support and Costs					Construction Support and Costs																	
Construction Utility Contract #1- MOS & Portal CN-1250																						
Construction Utility Contract #2 - UMS CN-1251																						
Construction Tunnels CN-1252					Construction Tunnels CN-1252																	
Construction CN-1300					Construction CN-1300																	
CN- 1300 Milestone					CN- 1300 Milestone																	
Construction UMS Station P-1253					Construction UMS Station P-1253																	
Construction CTS Station P-1254R					Construction CTS Station P-1254R																	
Construction YBM Station P-1255					Construction YBM Station P-1255																	
Construction STS P-1256					Construction STS P-1256																	
Project Start Up					Project Start Up																	
Unallocated Contingency					Unallocated Contingency																	
CO1.700	Cost Activity Unallocated Contingency (LOE) - 1.7.500.99.090.00 - Contingency	115	01/02/19	06/14/19	Cost Activity Unallocated Contingency (LOE)																	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016		2017				2018				2019				2020				2021	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
CENTRAL SUBWAY PROJECT						823	04/20/16 A	06/14/19																	
Program Level Milestones						115	01/02/19	06/14/19																	
MS0019	Baseline Finish Date: 12-26-2018	0		06/14/19*	-118																				
MS0009	CSP Revenue Service Date	0		06/14/19*	-118																				
Construction Phase						823	04/20/16 A	06/14/19																	
Construction CN-1300						770	04/20/16 A	04/02/19																	
CN- 1300 Milestone						64	01/02/19	04/02/19																	
BUF1017	STS Buffer Float- (0)	0	01/02/19	01/02/19	-118																				
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		01/02/19*	-326																				
MS-20	Final Completion - 1,790 Calendar Days (SP-4C)	0		04/02/19*	-326																				
Construction CTS Station P-1254R						706	04/20/16 A	01/02/19																	
CTS.31.71.020	Break-In & Construct Top Sidewall & Headwall Left - Crosscut Cavern	30	04/20/16 A	06/06/16	-232																				
CTS.31.71.030	Break-In & Construct Top Sidewall & Headwall Right - Crosscut Cavern	30	04/21/16 A	06/03/16	-232																				
CTS.31.71.040	Break-In & Construct Top Center Drift & Headwall - Crosscut Cavern	7	06/06/16	06/14/16	-232																				
CTS.31.71.050	Excavate & Construct Sidewall Bench & Headwall Step 3 Left Heading - Crosscut Cavern	8	06/15/16	06/24/16	-232																				
CTS.31.71.060	Excavate & Construct Sidewall Bench & Headwall Step 3 Right Heading - Crosscut Cavern	8	06/17/16	06/28/16	-232																				
CTS.31.71.070	Excavate & Construct Step 4 Left Heading Invert & Headwall - Crosscut Cavern	10	06/29/16	07/13/16	-232																				
CTS.31.71.075	Excavate & Construct Step 4 Right Heading Invert & Headwall - Crosscut Cavern	10	07/01/16	07/15/16	-232																				
CTS.31.71.080	Excavate Step 5 Bench 1 & Construct Headwall - Crosscut Cavern	5	07/18/16	07/22/16	-232																				
CTS.31.71.090	Excavate Step 6 Bench 2 & Construct Headwall - Crosscut Cavern	5	07/21/16	07/27/16	-232																				
CTS.31.71.100	Excavate & Support Step 7 Invert - Crosscut Cavern	10	07/21/16	08/03/16	-232																				
CTS.31.71.390	Breakout Remaining Cross-Cut Cavern Opening	5	08/04/16	08/10/16	-232																				
CTS.31.71.400	Temporary Backfill Cross Cut Invert for Platform Cavern Excavation	5	08/11/16	08/17/16	-232																				
CTS.31.71.440	Barrel Vaults at South Platform Cavern Excavation	10	08/18/16	08/31/16	-232																				
CTS.31.71.450	Breakin Top Benches for South Platform Cavern Excavation	13	09/01/16	09/20/16	-232																				
CTS.31.71.465	Excavate & Support Top Left Heading South Platform Cavern 176Lf	20	09/21/16	10/18/16	-232																				
CTS.31.71.460	Excavate & Support Top Right Heading South Platform Cavern 176Lf	20	09/21/16	10/18/16	-232																				
CTS.31.71.550	Excavate & Support Top Right Bench South Platform Cavern 176Lf	10	10/19/16	11/01/16	-232																				
CTS.31.71.560	Excavate & Support Top Left Bench South Platform Cavern 176Lf	10	10/19/16	11/01/16	-232																				
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	11/02/16	11/22/16	-232																				
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf	14	11/02/16	11/22/16	-232																				
CTS.31.71.590	CTS- Install Temporary Bracing - Sidewalls (Platform Cavern)	6	11/23/16	12/02/16	-232																				
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	12/05/16	12/29/16	-232																				
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	12/30/16	01/16/17	-232																				
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	01/17/17	01/30/17	-232																				
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	01/31/17	02/13/17	-232																				
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	02/14/17	02/20/17	-232																				
CTS.31.71.650	Break-in Crossover Cavern	1	02/21/17	02/21/17	-232																				
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	02/22/17	05/09/17	-232																				
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	02/22/17	05/09/17	-232																				
CTS.31.71.680	Install Temporary Support Struts	10	05/10/17	05/23/17	-232																				
CTS.31.71.690	Install Ramp For Center Drift	2	05/24/17	05/25/17	-232																				
CTS.31.71.700	Excavate & Support Center Drift	35	05/26/17	07/17/17	-232																				
CTS.31.71.710	Remove Crossover Excavation Ramp	2	07/18/17	07/19/17	-232																				
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	07/20/17	08/02/17	-232																				

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016		2017			2018				2019				2020				2021				
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	08/03/17	08/11/17	-232																						
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	08/14/17	08/25/17	-232																						
CTS.31.71.750	Repair Invert Joint - Crossover	10	08/28/17	09/11/17	-232																						
CTS.31.74.700	Place Smoothing Concrete - Final Lining invert - Crossover Cavern	15	09/12/17	09/28/17	-280																						
CTS.31.74.705	Install Waterproofing - Final Lining invert - Crossover Cavern	15	09/29/17	10/16/17	-280																						
CTS.31.74.715	Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern	20	10/17/17	11/08/17	-280																						
CTS.31.74.710	Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern	6	11/09/17	11/16/17	-280																						
CTS.31.74.725	Place Concrete - Final Lining invert - Crossover Cavern	20	11/09/17	12/05/17	-280																						
CTS.31.74.960	Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern	5	11/17/17	11/22/17	-280																						
CTS.31.74.970	Install Rebar - Final Lining Invert -Cross Cut Cavern	10	11/23/17	12/06/17	-280																						
CTS.31.74.980	Place Concrete - Final Lining Invert -Cross Cut Cavern	10	12/07/17	12/18/17	-280																						
CTS.31.74.990	Install Waterproofing - Final Lining Arches - Crosscut Cavern	15	12/19/17	01/06/18	-280																						
CTS.31.74.1000	Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern	15	12/26/17	01/12/18	-280																						
CTS.31.74.350	Shotcrete Final Lining Arches - Crosscut Cavern	20	01/06/18	01/29/18	-280																						
CTS.03.30.760	Shore/Rebar/Form Pour Track Slab - Crosscut Cavern	15	01/30/18	02/19/18	-233																						
CTS.03.30.780	Rebar/Form/ Pour Platforms - Crosscut Cavern	20	02/13/18	03/12/18	-233																						
CTS.03.30.770	Shore/Rebar/Form Pour Concourse Level Slab - Crosscut Cavern	15	02/27/18	03/19/18	-233																						
CTS.09.83.664	CTS_PL 05 Spray - Set Up Scaffold- Platform Level	5	03/20/18	03/26/18	-233																						
CTS.09.83.544	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster NB - Sector 2	6	03/27/18	04/03/18	-233																						
CTS.09.83.554	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster SB - Sector 2	6	04/04/18	04/11/18	-233																						
CTS.34.21.122	CTS_PL Station Platform: Install - Traction Power Box PS01 @ SB Track - Sec	3	04/12/18	04/16/18	-233																						
CTS.34.05.160	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS05 (Traction Power)	5	04/17/18	04/23/18	-233																						
CTS.34.05.170	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS07 (Traction Power)	5	04/24/18	04/30/18	-233																						
CTS.34.05.180	CTS_PL_Install:Conduit SB Positive Feeder Box PS02 to PS08 (Traction Power)	5	05/01/18	05/07/18	-233																						
CTS.03.46.980	CTS_PL Station Platform: Install - GFRC Perforated Wall Panel System SB - S	15	05/08/18	05/28/18	-233																						
CTS.03.46.164	CTS_PL Station Platform: Install - GFRC Perforated Ceiling Panels - Sector 2	15	05/29/18	06/18/18	-233																						
CTS.14.31.265	Set Escalator Trusses 1 & 2 (Concourse to Platform) - Crosscut	2	06/19/18	06/20/18	-233																						
CTS.14.31.275	CTS_PL Assemble Components Escalator #1	15	06/21/18	07/11/18	-233																						
CTS.14.31.415	CTS_PL Assemble Components Escalator #2	15	07/12/18	08/01/18	-233																						
CTS.09.66.616	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Flooring Sector 2	5	08/02/18	08/08/18	-233																						
CTS.09.66.618	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Cove Base Sect	5	08/09/18	08/15/18	-233																						
CTS.09.66.620	CTS_PL Station Platform Cross-Cut Cavern: Grind & Polish - Terrazzo Floorin	10	08/16/18	08/29/18	-233																						
CTS.14.24.255	CTS-PL 05: Assemble Elevator #1	15	08/30/18	09/19/18	-233																						
CTS.14.24.265	CTS-PL 05: Assemble Elevator #2	15	09/20/18	10/10/18	-233																						
CTS.14.24.275	CTS-PL 05: Install Elevator Power & Controls	10	10/11/18	10/24/18	-233																						
CTS.08.44.265	CTS_PL Install Elevators 1 & 2 Glass Enclosure - Crosscut Platform Level	10	10/11/18	10/24/18	-233																						
CTS.08.44.580	Install Elevators 1 & 2 Glass Enclosure - Crosscut Concourse Level	10	10/11/18	10/24/18	-233																						
CTS.14.24.285	CTS-PL 05: Startup & Test Elevators 1&2	5	10/25/18	10/31/18	-233																						
CTS.14.24.295	CTS-PL 05:Inspections - Elevators 1&2	1	11/01/18	11/01/18	-233																						
CTS.01.80.00	CTS- Building Systems Start-up & Testing	44	11/02/18	01/02/19	-233																						
Project Start Up		163	01/02/19	06/14/19	-170																						
STU1010	S&S Certification / Pre-Revenue Activities	115	01/02/19	06/14/19	-118																						
BUF0018	Muni Float	0	06/14/19	06/14/19	-118																						

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CENTRAL SUBWAY PROJECT	2234	06/08/11 A	04/02/19																																
Construction Phase	2234	06/08/11 A	04/02/19																																
Construction Tunnels CN-1252	1799	06/08/11 A	05/15/15 A																																
1252 Tunnel Contract BIH	1799	06/08/11 A	05/15/15 A																																
Contract Milestones	1437	06/08/11 A	05/15/15 A																																
General Conditions	1752	08/01/11 A	05/15/15 A																																
4th & Bryant St TBM Launch Box Construction	686	03/30/12 A	06/02/14 A																																
Moscone Station Headwalls	430	05/14/12 A	09/20/13 A																																
UMS Station Headwalls	425	07/24/12 A	11/22/13 A																																
North Headwall	237	02/27/13 A	11/22/13 A																																
South Headwall	404	07/31/12 A	11/22/13 A																																
4th St and Market Compensation Grouting	707	01/28/13 A	04/30/15 A																																
Southbound Tunneling	451	04/27/13 A	10/13/14 A																																
Ellis St Compensation Grouting	561	07/31/12 A	05/09/14 A																																
Green St Compensation Grouting	320	08/05/13 A	06/30/14 A																																
Retrieval Shaft	1070	10/31/11 A	03/20/15 A																																
Cross Passage 1-5	339	03/22/14 A	04/16/15 A																																
Cross Passage 1	79	06/14/14 A	09/13/14 A																																
Cross Passage 2	105	05/10/14 A	09/09/14 A																																
Cross Passage 3	127	03/31/14 A	08/28/14 A																																
Cross Passage 4	114	03/22/14 A	07/31/14 A																																
Cross Passage 5	277	05/31/14 A	04/16/15 A																																
Portal Structure	196	09/02/14 A	04/15/15 A																																
Contract Close Out	307	03/03/14 A	05/15/15 A																																
Construction CN-1300	1706	06/03/13 A	04/02/19																																
CN- 1300 Milestone	1512	06/17/13 A	04/02/19																																
Construction UMS Station P-1253	1706	06/17/13 A	01/03/19																																
Construction CTS Station P-1254R	1525	06/17/13 A	01/03/19																																
Construction YBM Station P-1255	1642	06/10/13 A	01/03/19																																
Construction STS P-1256	1527	06/03/13 A	03/18/19																																

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016		2017				2018				2019				2020				2021		
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CENTRAL SUBWAY PROJECT						4081	12/01/08 A	06/18/21	0																	
Program Level Milestones						1752	08/31/16	06/18/21	0																	
No 13-Disp						1752	08/31/16	06/18/21	0																	
MS0005	50% through Construction Project - Milestone #5	0		08/31/16*	847																					
HldPt4	Stations to Platform Level	0		11/18/16*	412																					
MS0006	75% through Construction - Project Milestone #6	0		01/01/18*	359																					
MS0007	90% through Construction - Project Milestone #7	0		06/01/18*	208																					
STU1030	Accept CSP Funded LRVs	0		01/02/19	-3																					
HldPt5	Systems Complete	0		01/02/19	-118																					
MS0008	Construction Complete	0		04/02/19	-97																					
MS0019	Baseline Finish Date: 12-26-2018	0		06/14/19*	-118																					
MS0009	CSP Revenue Service Date	0		06/14/19*	-118																					
MS0010	Grant Closeout - CSP Complete	0		06/18/21	0																					
Light Rail Vehicles						1229	06/30/15 A	11/09/18	47																	
Real Estate						3130	12/01/08 A	05/26/16	952																	
Construction Phase						3796	01/04/10 A	06/20/19	521																	
Construction Support and Costs						5314	01/04/10 A	06/20/19	729																	
Construction Tunnels CN-1252						306	09/05/14 A	05/27/16	1848																	
Construction CN-1300						1706	06/17/13 A	04/02/19	578																	
CN- 1300 Milestone						1512	06/17/13 A	04/02/19	578																	
Administrative / Milestones						2116	06/17/13 A	04/02/19	-326																	
DUR	Construction Duration - 1,700 Calendar Days	2011	06/17/13 A	01/02/19	-326																					
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		01/02/19*	-326																					
C.Punch	Closeout Punchlist/Remaining Work	90	01/03/19	04/02/19	-326																					
MS-20	Final Completion - 1,790 Calendar Days (SP-4C)	0		04/02/19*	-326																					
No 13-Disp						1512	06/17/13 A	04/02/19	578																	
Construction UMS Station P-1253						1706	06/24/13 A	01/03/19	641																	
Administrative / Milestones						895	01/14/15 A	06/08/18	212																	
Preconstruction						1373	09/25/14 A	01/02/19	-233																	
Engineering & Procurement						986	10/14/13 A	08/28/17	78																	
Site Work / Utility Relocation						597	07/11/16	10/23/18	115																	
Drilled Shafts						327	03/14/16 A	05/29/17	-228																	
Compensation Grouting						417	02/25/16 A	02/28/17	-125																	
Demolition						160	06/11/15 A	10/27/16	-191																	
Roof Deck Excavation,Construction,Restoration						861	01/05/15 A	01/02/18	326																	
Excavation & Support						319	03/16/16 A	06/05/17	-92																	
Concrete/Shotcrete						525	01/27/16 A	04/25/18	-63																	
Structural Steel						353	11/22/16	03/29/18	-196																	
Masonry						432	09/27/16	05/23/18	-163																	
Mechanical						499	09/27/16	09/11/18	-172																	
Electrical						535	12/14/16	01/01/19	-232																	
Electrical - Transportation						342	04/20/17	08/21/18	-168																	
Architectural Finishes						640	05/26/16	11/07/18	-193																	
Conveyances						419	01/31/17	09/07/18	-150																	
Stairs						565	07/19/16	09/17/18	-171																	
Startup & Testing						66	09/25/18	12/25/18	-227																	
No 13-Disp						1581	06/24/13 A	01/03/19	641																	
Construction CTS Station P-1254R						1445	12/23/13 A	01/03/19	641																	
Administrative / Milestones						154	09/12/17	04/13/18	-95																	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016			2017				2018				2019				2020				2021							
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3					
Preconstruction						512	01/22/16 A	02/05/18	4																							
Site Work / Utility Relocation						617	05/26/16	10/05/18	127																							
Demolition						5	07/02/18	07/06/18	-227																							
Excavation & Support						564	03/10/16 A	05/16/18	-68																							
CTS.31.50.900	CTS_CN Install Temp Level 4.0 Struts & Wales & Preload Col. 4.0-11.0	8	03/10/16 A	06/07/16	69	CTS_CN Install Temp Level 4.0 Struts & Wales & Preload Col. 4.0-11.0																										
CTS.31.43.140	CTS_Compensation Grouting - As Required	10	06/07/16	06/20/16	415	CTS_Compensation Grouting - As Required																										
CTS.31.50.310	CTS_CN Install Temp Level 5 Struts & Wales & Preload Col 4.0-11.0	8	08/14/17	08/23/17	-230	CTS_CN Install Temp Level 5 Struts & Wales & Preload Col 4.0-11.0																										
CTS.31.20.320	Excavate to 4' Below Level 6 Struts EL 7.5' Col 4.0-11.0	9	08/14/17	08/24/17	-230	Excavate to 4' Below Level 6 Struts EL 7.5' Col 4.0-11.0																										
CTS.31.50.330	Install Temp Level 6 Struts & Wales & Preload	10	08/17/17	08/30/17	-230	Install Temp Level 6 Struts & Wales & Preload																										
CTS.31.20.335	Excavate to 3' Below Level 7 Struts EL -7.5 Col 4.0-11.0	15	08/21/17	09/11/17	-230	Excavate to 3' Below Level 7 Struts EL -7.5 Col 4.0-11.0																										
CTS.31.50.370	Install Temp Level 7 Struts & Wales & Preload	10	08/29/17	09/12/17	-230	Install Temp Level 7 Struts & Wales & Preload																										
CTS.31.20.380	Excavate Headhouse to Invert Slab EL -18.67	12	09/13/17	09/28/17	-230	Excavate Headhouse to Invert Slab EL -18.67																										
CTS.31.50.070	Remove Level 6 & 7 Struts & Wales	5	12/21/17	12/28/17	-225	Remove Level 6 & 7 Struts & Wales																										
CTS.31.50.110	CTS_CN Remove Level 5 Struts & Wales	5	12/21/17	12/28/17	-230	CTS_CN Remove Level 5 Struts & Wales																										
CTS.31.50.150	CTS_CN Remove Level 4 Struts & Wales	5	02/09/18	02/15/18	-188	CTS_CN Remove Level 4 Struts & Wales																										
CTS.31.50.195	Remove Level 3 Struts & Wales	5	04/09/18	04/13/18	-224	Remove Level 3 Struts & Wales																										
CTS.31.50.235	Remove Level 2 Struts & Wales	5	04/16/18	04/20/18	-214	Remove Level 2 Struts & Wales																										
CTS.31.50.240	Remove Level 1 Struts & Wales	5	05/10/18	05/16/18	-225	Remove Level 1 Struts & Wales																										
Tunnel / Cavern Mining						647	01/06/16 A	09/22/17	-118																							
CTS.31.71.490	Excavate & Support North Emergency Egress Shaft	40	01/06/16 A	02/08/17	14	Excavate & Support North Emergency Egress Shaft																										
CTS.31.71.355	Install Remaining Barrel Vault Piping (1-7, 49-55, s1-s12) = 26ea	15	02/25/16 A	10/24/16	-27	Install Remaining Barrel Vault Piping (1-7, 49-55, s1-s12) = 26ea																										
CTS.31.71.020	Break-In & Construct Top Sidewall & Headwall Left - Crosscut Cavern	30	04/20/16 A	06/06/16	-232	Break-In & Construct Top Sidewall & Headwall Left - Crosscut Cavern																										
CTS.31.71.030	Break-In & Construct Top Sidewall & Headwall Right - Crosscut Cavern	30	04/21/16 A	06/03/16	-232	Break-In & Construct Top Sidewall & Headwall Right - Crosscut Cavern																										
CTS.31.71.040	Break-In & Construct Top Center Drift & Headwall - Crosscut Cavern	7	06/06/16	06/14/16	-232	Break-In & Construct Top Center Drift & Headwall - Crosscut Cavern																										
CTS.31.71.050	Excavate & Construct Sidewall Bench & Headwall Step 3 Left Heading - Crosscut Cavern	8	06/15/16	06/24/16	-232	Excavate & Construct Sidewall Bench & Headwall Step 3 Left Heading - Crosscut Cavern																										
CTS.31.71.060	Excavate & Construct Sidewall Bench & Headwall Step 3 Right Heading - Crosscut Cavern	8	06/17/16	06/28/16	-232	Excavate & Construct Sidewall Bench & Headwall Step 3 Right Heading - Crosscut Cavern																										
CTS.31.71.070	Excavate & Construct Step 4 Left Heading Invert & Headwall - Crosscut Cavern	10	06/29/16	07/13/16	-232	Excavate & Construct Step 4 Left Heading Invert & Headwall - Crosscut Cavern																										
CTS.31.71.075	Excavate & Construct Step 4 Right Heading Invert & Headwall - Crosscut Cavern	10	07/01/16	07/15/16	-232	Excavate & Construct Step 4 Right Heading Invert & Headwall - Crosscut Cavern																										
CTS.31.71.080	Excavate Step 5 Bench 1 & Construct Headwall - Crosscut Cavern	5	07/18/16	07/22/16	-232	Excavate Step 5 Bench 1 & Construct Headwall - Crosscut Cavern																										
CTS.31.71.090	Excavate Step 6 Bench 2 & Construct Headwall - Crosscut Cavern	5	07/21/16	07/27/16	-232	Excavate Step 6 Bench 2 & Construct Headwall - Crosscut Cavern																										
CTS.31.71.100	Excavate & Support Step 7 Invert - Crosscut Cavern	10	07/21/16	08/03/16	-232	Excavate & Support Step 7 Invert - Crosscut Cavern																										
CTS.31.71.390	Breakout Remaining Cross-Cut Cavern Opening	5	08/04/16	08/10/16	-232	Breakout Remaining Cross-Cut Cavern Opening																										
CTS.31.71.400	Temporary Backfill Cross Cut Invert for Platform Cavern Excavation	5	08/11/16	08/17/16	-232	Temporary Backfill Cross Cut Invert for Platform Cavern Excavation																										
CTS.31.71.440	Barrel Vaults at South Platform Cavern Excavation	10	08/18/16	08/31/16	-232	Barrel Vaults at South Platform Cavern Excavation																										
CTS.31.71.410	Barrel Vaults for North Platform Cavern Excavation	10	09/01/16	09/15/16	-31	Barrel Vaults for North Platform Cavern Excavation																										
CTS.31.71.450	Breakin Top Benches for South Platform Cavern Excavation	13	09/01/16	09/20/16	-232	Breakin Top Benches for South Platform Cavern Excavation																										
CTS.31.71.465	Excavate & Support Top Left Heading South Platform Cavern 176Lf	20	09/21/16	10/18/16	-232	Excavate & Support Top Left Heading South Platform Cavern 176Lf																										
CTS.31.71.460	Excavate & Support Top Right Heading South Platform Cavern 176Lf	20	09/21/16	10/18/16	-232	Excavate & Support Top Right Heading South Platform Cavern 176Lf																										
CTS.31.71.550	Excavate & Support Top Right Bench South Platform Cavern 176Lf	10	10/19/16	11/01/16	-232	Excavate & Support Top Right Bench South Platform Cavern 176Lf																										
CTS.31.71.560	Excavate & Support Top Left Bench South Platform Cavern 176Lf	10	10/19/16	11/01/16	-232	Excavate & Support Top Left Bench South Platform Cavern 176Lf																										
CTS.31.71.420	BreakinTop / Bench Sidewalls for North Platform Cavern Excavation	12	10/19/16	11/03/16	-54	BreakinTop / Bench Sidewalls for North Platform Cavern Excavation																										
CTS.31.71.800	TB-4 SEM Additional Flashcrete	30	10/24/16	12/07/16	2	TB-4 SEM Additional Flashcrete																										
CTS.31.71.810	TB-5 SEM Additional Shotcrete	30	10/24/16	12/07/16	2	TB-5 SEM Additional Shotcrete																										
CTS.31.71.820	TB-6 SEM Additional Lattice Girders	30	10/24/16	12/07/16	2	TB-6 SEM Additional Lattice Girders																										
CTS.31.71.830	TB-7 SEM Additional Steel Arches	30	10/24/16	12/07/16	2	TB-7 SEM Additional Steel Arches																										
CTS.31.71.840	TB-8 SEM Additional Face Bolts	30	10/24/16	12/07/16	2	TB-8 SEM Additional Face Bolts																										
CTS.31.71.850	TB-9 SEM Additional Metal Sheets	30	10/24/16	12/07/16	2	TB-9 SEM Additional Metal Sheets																										
CTS.31.71.860	TB-10 SEM Additional Probe Holes	30	10/24/16	12/07/16	2	TB-10 SEM Additional Probe Holes																										
CTS.31.71.870	TB-11 SEM Additional Grout Holes	30	10/24/16	12/07/16	2	TB-11 SEM Additional Grout Holes																										
CTS.31.71.880	TB-12 SEM Additional Permeation Grouting	30	10/24/16	12/07/16	2	TB-12 SEM Additional Permeation Grouting																										

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016												2017				2018				2019				2020			2021			
						Q2				Q3				Q4				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
CTS.31.71.890	TB-13 SEM Additional Pocket Excavation	30	10/24/16	12/07/16	2																															
CTS.31.71.900	TB-14 SEM Additional Drilled Gravity Dewatering Pipes/ Gravity Well Points	30	10/24/16	12/07/16	2																															
CTS.31.71.910	TB-15 SEM Additional Vacuum Well Points	30	10/24/16	12/07/16	2																															
CTS.31.71.780	TB-2 SEM Additional Grouted Pipe Spiles	30	10/24/16	12/07/16	2																															
CTS.31.71.790	TB-3 SEM Additional Barrel Vault Pipes	30	10/24/16	12/07/16	2																															
CTS.31.71.770	TB-1 SEM Additional Rebar Spiles	30	10/24/16	12/07/16	2																															
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	11/02/16	11/22/16	-232																															
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf	14	11/02/16	11/22/16	-232																															
CTS.31.71.425	Complete Top / Bench Invert Sidewalls & Headwall Left Side for North Platform Cavern Excavation	33	11/04/16	12/23/16	-54																															
CTS.31.71.435	Complete Top / Bench Invert Sidewalls & Headwall Right Side for North Platform Cavern Excavation	33	11/04/16	12/23/16	-54																															
CTS.31.71.590	CTS- Install Temporary Bracing - Sidewalls (Platform Cavern)	6	11/23/16	12/02/16	-232																															
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	12/05/16	12/29/16	-232																															
CTS.31.71.445	Install Temporary Bracing Sidewalls for North Platform Cavern Excavation	4	12/27/16	12/30/16	-54																															
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	12/30/16	01/16/17	-232																															
CTS.31.71.455	Excavation / Support Top Center Drift & Construct Headwall for North Platform Cavern Excavation	13	01/03/17	01/19/17	-54																															
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	01/17/17	01/30/17	-232																															
CTS.31.71.475	Excavation / Support Center Bench Invert & Construct Headwall for North Platform Cavern Excavation	9	01/31/17	02/10/17	-61																															
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	01/31/17	02/13/17	-232																															
CTS.31.71.500	Excavate & Support North Emergency Egress Tunnel	15	02/09/17	03/01/17	14																															
CTS.31.71.485	Demo Sidewall, Repair Headwall for North Platform Cavern Excavation	10	02/13/17	02/24/17	-61																															
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	02/14/17	02/20/17	-232																															
CTS.31.71.650	Break-in Crossover Cavern	1	02/21/17	02/21/17	-232																															
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	02/22/17	05/09/17	-232																															
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	02/22/17	05/09/17	-232																															
CTS.31.71.495	Repair Invert Joint North Platform Cavern 110Lf	8	02/27/17	03/08/17	-61																															
CTS.31.71.520	Initial Excavation & Support - South Emergency Egress Tunnel	10	03/02/17	03/15/17	14																															
CTS.31.71.530	Complete Excavation & Support - South Emergency Egress Tunnel	5	03/16/17	03/22/17	14																															
CTS.31.71.680	Install Temporary Support Struts	10	05/10/17	05/23/17	-232																															
CTS.31.71.690	Install Ramp For Center Drift	2	05/24/17	05/25/17	-232																															
CTS.31.71.700	Excavate & Support Center Drift	35	05/26/17	07/17/17	-232																															
CTS.31.71.710	Remove Crossover Excavation Ramp	2	07/18/17	07/19/17	-232																															
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	07/20/17	08/02/17	-232																															
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	08/03/17	08/11/17	-232																															
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	08/14/17	08/25/17	-232																															
CTS.31.71.750	Repair Invert Joint - Crossover	10	08/28/17	09/11/17	-232																															
CTS.31.71.760	Excavation & Mining Complete	0		09/22/17	-200																															
Cavern Lining		277	03/02/17	03/23/18	-207																															
Concrete/Shotcrete		379	03/30/17	09/11/18	-197																															
Structural Steel		104	04/18/18	09/10/18	-209																															
Masonry		104	02/02/18	06/27/18	-195																															
Mechanical		383	04/13/17	10/01/18	-211																															
Misc Metal		292	08/17/17	10/05/18	-214																															
Electrical		300	08/29/17	10/22/18	-216																															
Electrical - Transportation		84	03/27/18	07/20/18	-202																															
Architectural Finishes		414	03/15/17	10/24/18	-183																															
Conveyances		98	06/19/18	11/01/18	-234																															
Startup & Testing		171	05/09/18	01/02/19	-233																															
CTS UP - 20	CTS_UP - Pre-Revenue Punchlist Corrections	15	05/09/18	05/29/18	-121																															
CTS UP - 18	CTS_UP - Pre-Revenue Start up & Test MEP Equip	15	07/30/18	08/17/18	-179																															
CTS PL - 18	CTS_PL - Pre-Revenue Start up & Test MEP Equip	15	08/15/18	09/04/18	-191																															

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016			2017				2018				2019				2020			2021				
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
CTS.01.80.100	CTS_CN - Pre-Revenue Start up & Test MEP Equip	15	08/24/18	09/13/18	-198																							
CTS.01.80.110	CTS_CN - Pre-Revenue Start up & Test Emergency Lighting	5	08/27/18	08/31/18	-189																							
CTS CN - 20	CTS_CN - Pre-Revenue Punchlist Corrections	15	09/17/18	10/05/18	-214																							
CTS UM - 20	CTS_UM - Pre-Revenue Punchlist Corrections	15	09/18/18	10/08/18	-200																							
CTS PL - 20	CTS_PL - Pre-Revenue Punchlist Corrections	15	10/04/18	10/24/18	-227																							
CTS LM - 20	CTS_LM - Pre-Revenue Punchlist Corrections	15	10/09/18	10/29/18	-215																							
CTS SU - 20	CTS_SU Level - Pre-Revenue Punchlist Corrections	15	10/15/18	11/02/18	-219																							
CTS.01.80.00	CTS- Building Systems Start-up & Testing	44	11/02/18	01/02/19	-233																							
No 13-Disp		1445	12/23/13 A	01/03/19	641																							
Construction YBM Station P-1255						1582	12/31/13 A	01/03/19	641																			
Administrative / Milestones						350	12/30/16	05/03/18	-74																			
Preconstruction						15	01/16/18	02/05/18	4																			
Excavation & Support						489	04/20/16 A	03/26/18	-56																			
Concrete/Shotcrete						570	02/25/16 A	05/03/18	238																			
Mechanical						5	07/21/17	07/27/17	44																			
Electrical						400	09/08/16	03/21/18	-92																			
Electrical - Transportation						346	09/02/16	12/29/17	-34																			
Conveyances						222	06/22/17	05/07/18	-122																			
Startup & Testing						61	05/17/18	08/09/18	-129																			
No 13-Disp						1582	12/31/13 A	01/03/19	641																			
Construction STS P-1256						1527	01/06/14 A	03/18/19	589																			
Preconstruction						443	05/26/16	02/05/18	4																			
Engineering & Procurement						15	05/26/16	06/16/16	-71																			
Site Work / Utility Relocation						117	05/11/16 A	11/09/16	-38																			
Concrete/Shotcrete						70	11/10/16	03/30/17	165																			
Tunnel Concrete						434	04/11/16 A	06/27/18	-98																			
Structural Steel						15	03/30/17	04/19/17	28																			
Electrical						221	09/21/17	08/01/18	-167																			
Electrical - Transportation						21	04/02/18	04/30/18	-169																			
Trackwork						431	10/21/16	06/15/18	-90																			
Track System Work						1080	04/25/15 A	03/18/19	-221																			
Startup & Testing						87	09/03/18	01/01/19	-232																			
STS.34.42.425	Startup & Testing - Tunnel & ATSC Systems	84	09/03/18	12/27/18	-232																							
STS.34.42.2650	STS- Weather Allowance for 2018- 4 days	4	12/27/18	01/01/19	-232																							
No 13-Disp						1527	01/06/14 A	01/03/19	641																			
Project Start Up						163	01/02/19	06/14/19	-170																			
No 13-Disp						163	01/02/19	06/14/19	-170																			
STU1010	S&S Certification / Pre-Revenue Activities	115	01/02/19	06/14/19	-118																							
BUF0018	Muni Float	0	06/14/19	06/14/19	-118																							
Unallocated Contingency						115	01/02/19	06/14/19	-118																			
Project Management						505	06/14/19	06/18/21	0																			
No 13-Disp						505	06/14/19	06/18/21	0																			
CO1.840	Program Closeout	120	06/14/19	12/05/19	385																							
STU1040	After Study	505	06/14/19	06/18/21	0																							

Appendix C

PROJECT SCOPE AND FUNDING OVERVIEW

Project Overview

The Central Subway Project will construct a modern, efficient light-rail line that will improve public transit in San Francisco. This new 1.7-mile extension of Muni's T Third Line will provide direct connections to major retail, sporting and cultural venues while efficiently transporting people to jobs, educational opportunities and other amenities throughout the city.

The Central Subway Project is Phase 2 of the San Francisco Municipal Transportation Agency's (SFMTA) Third Street Light Rail Transit Project. Phase 1 of the project constructed a 5.1-mile light-rail line along the densely populated 3rd Street corridor. It began revenue service in April 2007, restoring light-rail service to a high transit-ridership area of San Francisco for the first time in 50 years.

The Central Subway Project will extend the T Third Line from the 4th Street Caltrain Station to Chinatown, providing a direct, rapid transit link from the Bayshore and Mission Bay areas to SoMa, Union Square and downtown.

Four new stations will be built along the 1.7-mile project alignment—an above-ground station at 4th and Brannan streets and three underground stations at Moscone Center, Union Square and Chinatown.

The Central Subway will run through the burgeoning technology and digital-media hub in SoMa, where dozens of companies have taken up residence along the 4th Street corridor. Increased



Project Overview - continued

transit options will attract new employers – the Central Subway makes travel more convenient throughout the corridor and improves connections to downtown, local and regional rail and the Muni bus system.

The Central Subway Project will contribute to San Francisco’s economic competitiveness and help secure the city’s status of a regional, national and global hub. It will provide a pollution-free transit option that will reduce the environmental impact of transportation in the city, save natural resources, reduce traffic congestion and improve public transit for thousands of San Franciscans.

Funding Overview

The Central Subway Project is funded by the federal government, the State of California, the Metropolitan Transportation Commission, the San Francisco County Transportation Authority (SFCTA) and the City and County of San Francisco.

The majority of funding for the Central Subway Project is expected to be provided by the Federal Transit Administration’s (FTA) New Starts program, with a total commitment over the life of the project of \$942.2 million. To date, \$41 million in Department of Transportation Congestion Mitigation and Air Quality Improvement Program funds have been committed and expended.

With the addition in the December 2013 MPR of work to relocate the retrieval site for two tunnel boring machines (TBMs), the SFMTA’s baseline budget for the Central Subway Project is \$1.588 billion. In total, about half of the Third Street Light Rail Transit Project’s funding is from federal sources, with the remaining half from state and local sources. This is in line with the expectations of the FTA for New Starts-financed programs.

The table below summarizes the local, state and federal fund sources for both phases of the T Third Line including with the addition of the retrieval shaft to the Phase 2 totals.

	T Third (Phase 1)	Central Subway (Phase 2 + Retrieval Shaft Relocation)	Total (Phase 1 + Phase 2 + Retrieval Shaft Relocation)	Percentage of Total
Federal	\$123.380	\$983.225	\$1,106.605	49.5%
State	\$160.700	\$471.100	\$631.800	28.2%
Local	\$364.380	\$133.675	\$498.055	22.3%
Total	\$648.460	\$1,588.000	\$2,236.460	100.0%

All amounts in millions of dollars

The six charts that follow summarize use of fund sources by phase and with the addition of the retrieval shaft relocation additional budget and funding:

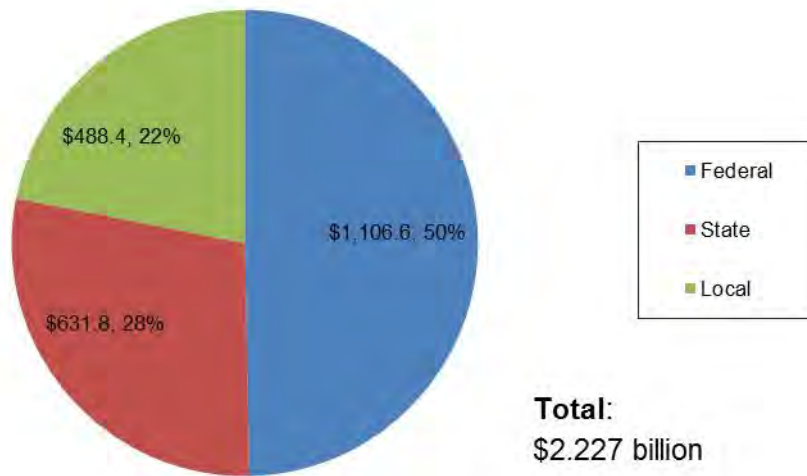
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

Funding Overview - continued

- Phase 2 Central Subway Project only total funding source percentages previous to the addition of the retrieval shaft relocation budget and funding.
- Phase 2 Central Subway Project only detail of the six State and Local funding sources previous to the addition of the retrieval shaft relocation.
- The next three charts that follow are the above three data sets above with the retrieval shaft relocation budget and funding added to the overall presentation.

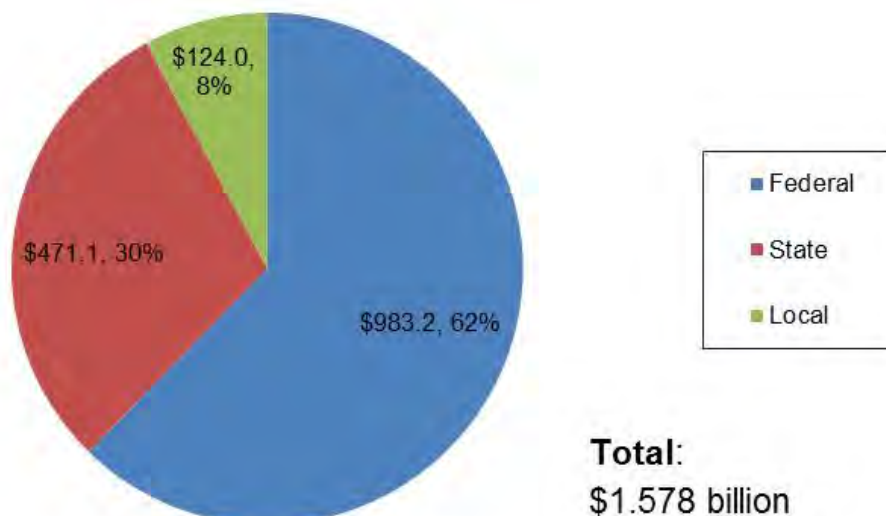
Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2
(\$ in millions)



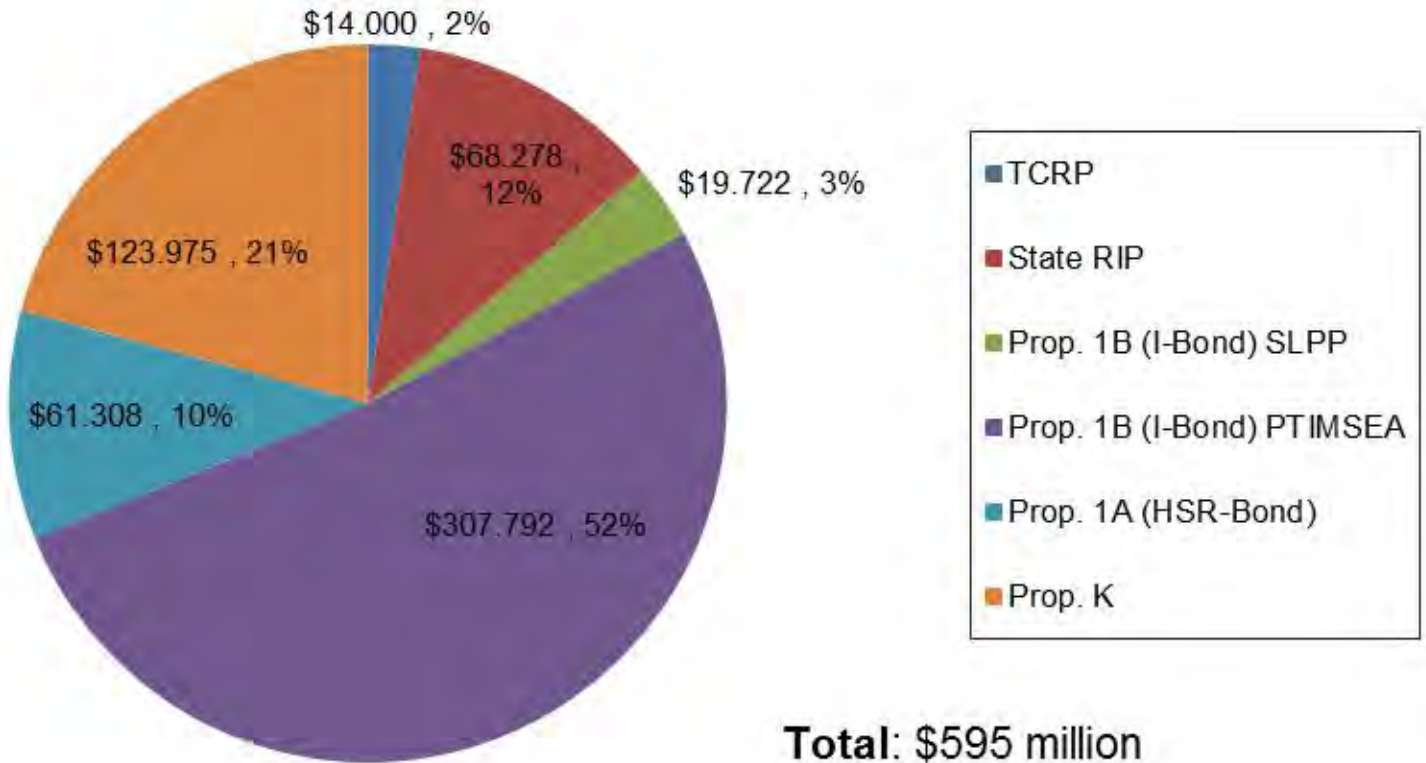
Central Subway Project Funding

Phase 2
(\$ in millions)



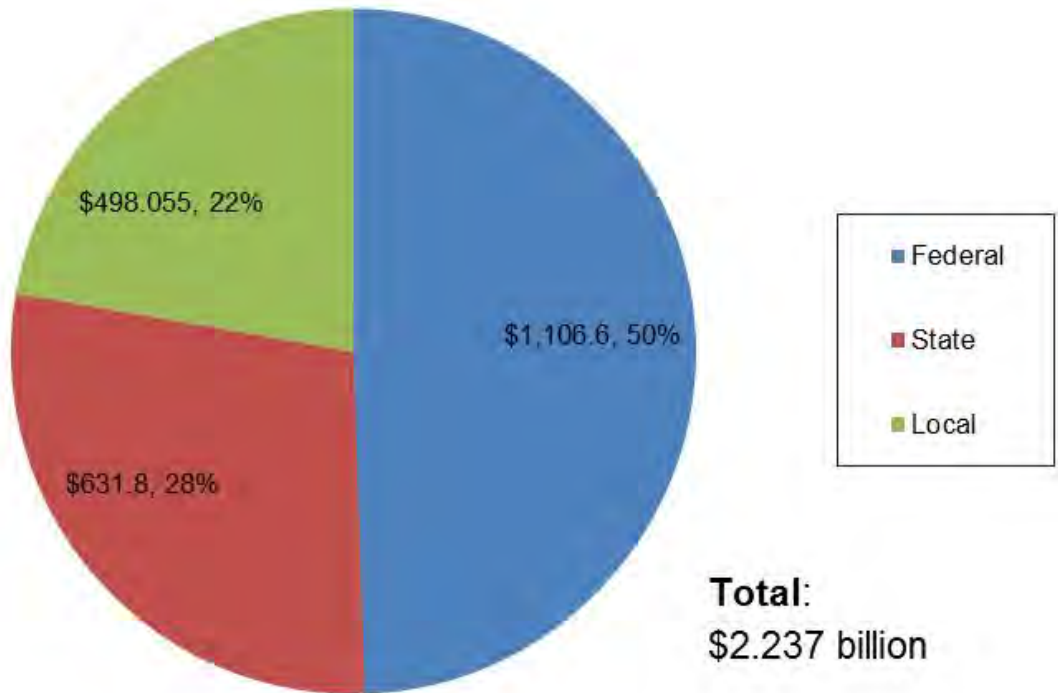
State and Local Funding

Phase 2
(\$ in millions)



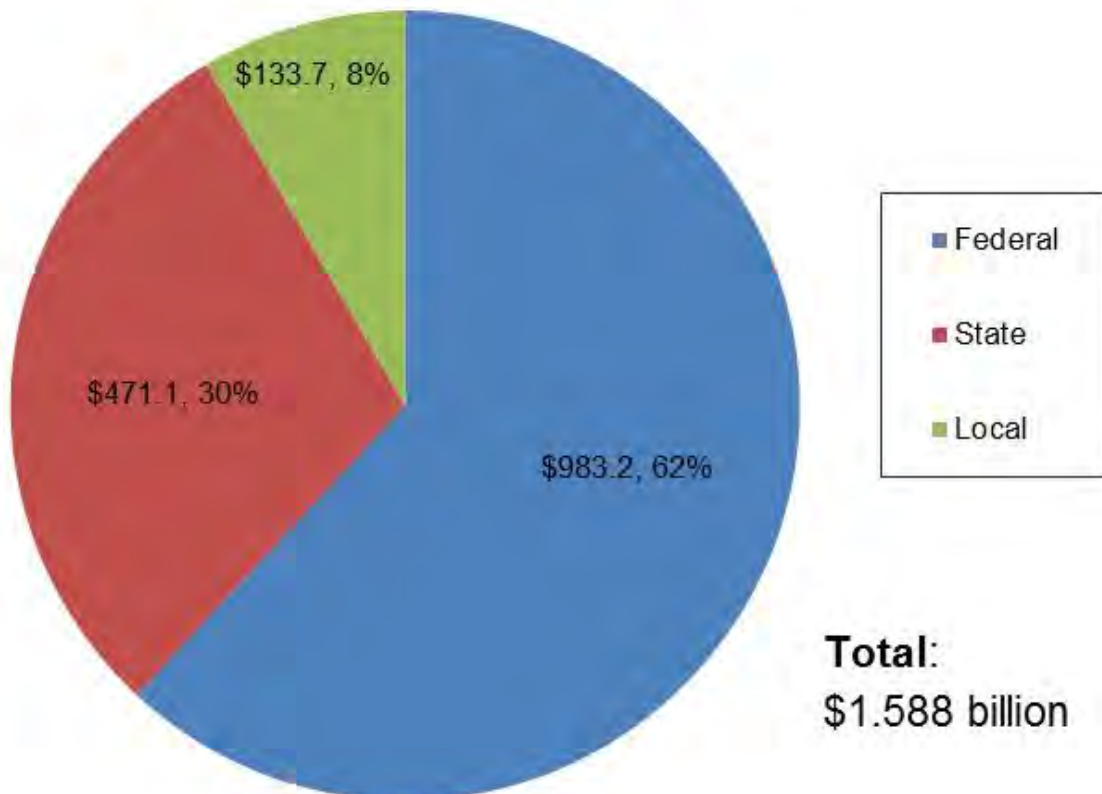
Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2 + Retrieval Shaft Relocation
(\$ in millions)

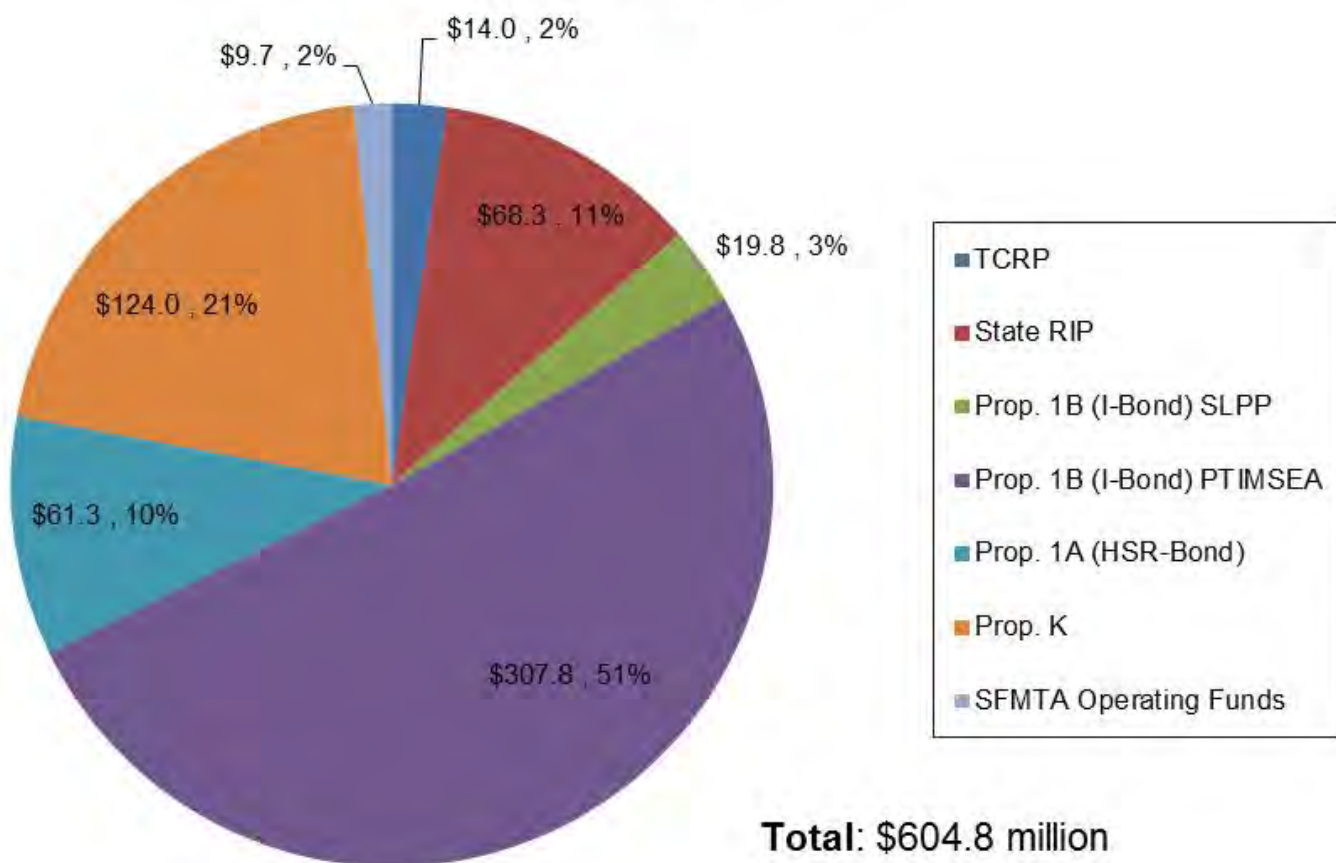


Central Subway Project Funding

Phase 2 + Retrieval Shaft Relocation
(\$ in millions)



State and Local Funding Phase 2 + Retrieval Shaft Relocation (\$ in millions)



Appendix D

COMPLETED CONTRACTS

Moscone Station and Portal Utility Relocation

Contract 1250

Contractor: Synergy Project Management, Inc.

Budget/Expenditures

Category	Amount
Original Budget	\$11,227,316
Expenditures Final	\$11,968,150
Utility Reimbursements	(\$2,275,419)
Final Program Cost	\$9,692,731
Budget Impact (Underrun)	(\$1,534,585)

Contract Details

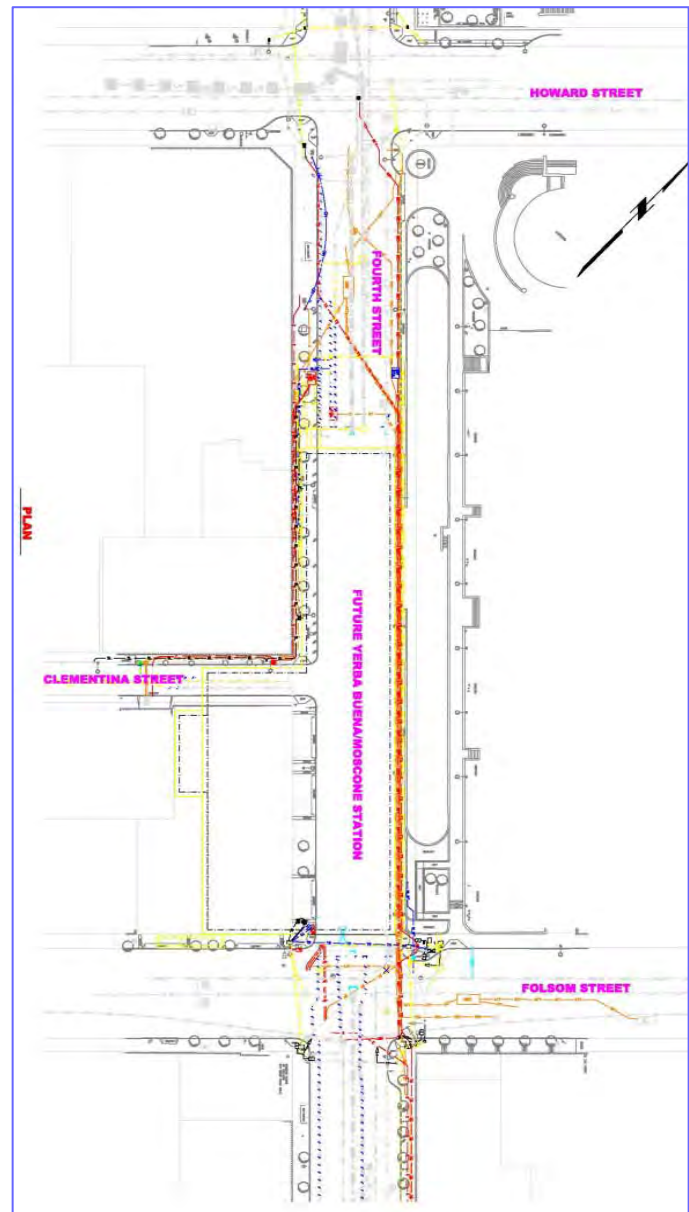
Contract Awarded:	November 17, 2009
Notice to Proceed:	January 4, 2010
Substantial Completion:	June 23, 2011
Contract Award Value:	\$ 9,273,939
Modifications Final :	\$ 2,694,211
Final Contract Value:	\$11,968,150

Status

- Work complete
- Project closeout administration and documentation
- Final Completion Date: June 23, 2011

Description

This project relocates utilities within the footprint of the proposed Yerba Buena/Moscone Station and the 4th Street Portal where the tunnel boring machines will descend underground. Also included is installation of building protections and monitoring of buildings adjacent to utility trenches.



Union Square/Market Street Station Utility Relocation

Contract 1251

Contractor: Synergy Project Management, Inc.

Budget/Expenditures

Category	Amount
Original Budget	\$22,199,847
Expenditures Final	\$20,794,581
Utility Reimbursements	(7,413,510)
Final Program Costs	\$13,176,169
Budget Impact (Underrun)	(\$9,023,678)

Contract Details

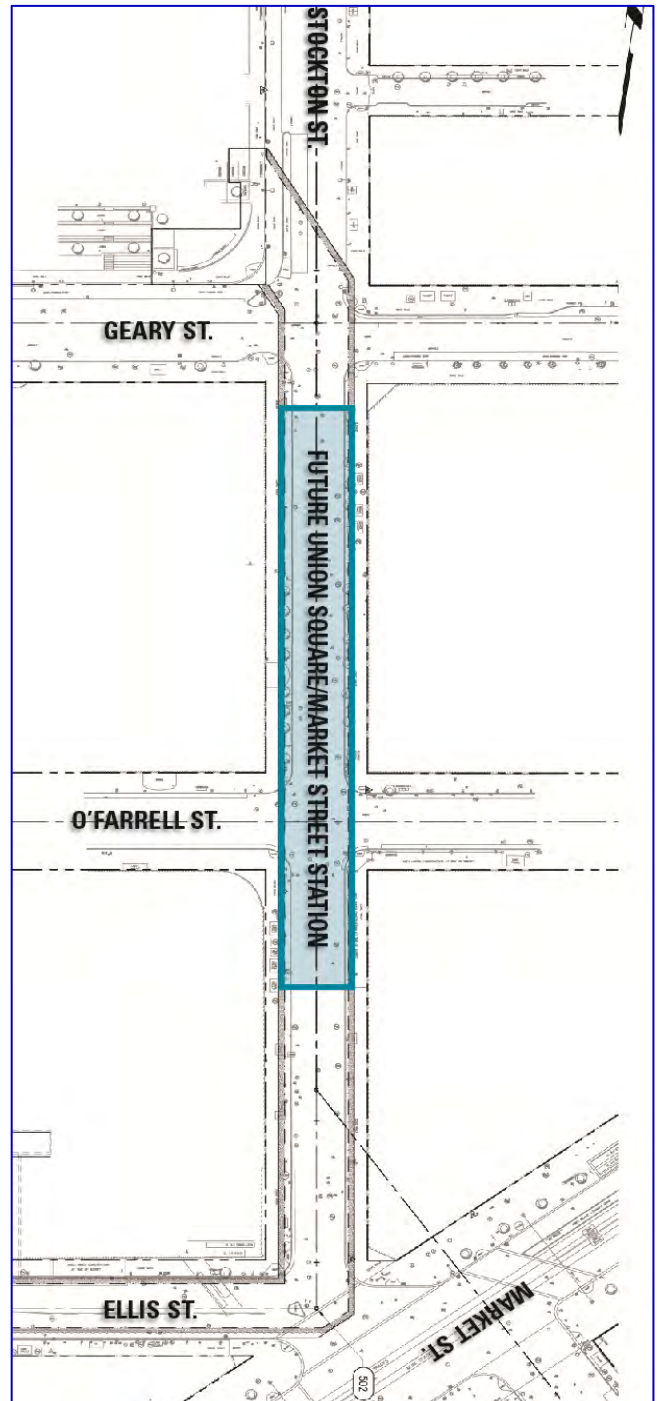
Contract Awarded:	December 7, 2010
Notice to Proceed:	January 12, 2011
Substantial Completion:	August 16, 2012
Contract Award Value:	\$16,832,550
Modifications Final:	\$3,962,031
Final Contract Value:	\$20,794,581

Status

- Final completion date October 15, 2012.
- Completed punch list work
- Project Final Acceptance by the SFMTA Board of Directors

Description

This project relocates utilities for the Union Square/Market Street Station and temporarily reroutes existing trolley coach lines around the construction.



Central Subway Pagoda Palace Demolition

Contract 1277 Contractor: MH Construction

Work Description

Demolish and clear the former Pagoda Theater for use the site to recover the tunnel boring machines when tunnels are completed in 2015. Locate and supply contractor facilities and installations. Obtain permits and approvals and coordinate work with City agencies and utility companies. Furnish and install signs and distribute notices to the local community prior to commencing with construction, cleanup and remove of debris from the site.

- Work was substantially completed Sept. 24, 2013.
- Administrative closeout in progress.

Budget/Expenditures	
Category	Amount
Current Budget	\$722,592
Expenditures to Date	\$638,278

Contract Details	
Contract Awarded:	June 12, 2013
Notice to Proceed:	July 15, 2013
Substantial Completion:	Sept. 24, 2013
Contract Award Value:	\$498,995
Modifications to Date:	\$108,228
Current Contract Value:	\$678,134



Central Subway Tunneling

Contract 1252 Contractor: Barnard Impregilo Healy Joint Venture

Description of Work

1.5-mile twin bore tunnels from Hwy I-80 to North Beach using two tunnel boring machines (TBMs). Contractor procurement and installation of the TBMs; construction of the TBM launch box and retrieval shaft excavation support; Yerba Buena/Moscone Station and Union Square/Market Street Station end walls; tunnel excavation and installation of precast segmental lining, the 4th Street portal transition to the surface and cross passages. Throughout, settlement monitoring and protection of existing utilities, buildings and BART tunnels.

Status

- Final Completion Date: May 15, 2015
- Administrative closeout in progress

Budget/Expenditures	
Category	Amount
Current Budget	\$235,913,500
Other Project Budget	\$5,150,000
Other Offset Credits	\$1,291,078
Expenditures to Date	\$234,881,397

Contract Details	
Contract Awarded:	June 28, 2011
Notice to Proceed 1:	January 27, 2012
Notice to Proceed 2:	March 14, 2012
Partial NTP 3:	April 12, 2012
Notice to Proceed 3:	October 15, 2012
Substantial Completion:	April 13, 2015
Contract Award Value:	\$233,584,015
Modifications to Date:	\$8,270,765
Current Contract Value:	\$241,854,780



Appendix E

SBE PARTICIPATION

Quarterly Report

Current Report: January 2016 – March 2016

PROGRAM SUPPORT CONTRACTS – SBE PARTICIPATION

Appendix E presents the Central Subway Program Small Business Enterprise or SBE goals and the actual SBE participation achieved to date – as of March 31, 2016.¹

CS Program SBE Summary Table for Professional Services and Construction Contracts

The summary compares the dollar value of the Base Contracts, the SBE Contract Goals, the percent and dollar value expended to date and the SBE actual participation to date.

Contract No.	Contractor	Services/Segment	A	B	C	D	E	F	G	
			Contract Amount	SFMTA SBE Contract Goal	Contract Expenditure to Date (Est.)	SBE Actual to Date	SBE Contract \$s = A * B	SBE Amount to Date = C * D	Contractor's SBE Goal (in Bid)	
A Project Professional Services Contracts			<i>millions</i>		<i>millions</i>		<i>millions</i>		<i>millions</i>	
1	149	CS Partnership	Project Management	\$85.14	30%	\$52.94	35%	\$25.54	\$18.74	31.4%
2	156	Hill International	Project Controls Task 1	\$17.11	26%	\$9.02	29%	\$4.45	\$2.62	26.0%
3	155-1	PB Telemon	Tunnels Design	\$7.94	30%	\$7.75	30%	\$2.38	\$2.30	31.6%
4	155-2	CS Design Group	Stations Design	\$36.52	30%	\$31.44	42%	\$10.96	\$13.25	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$17.23	30%	\$24.72	28%	\$5.17	\$6.92	30.0%
Subtotal Professional Services				\$163.94		\$125.87		\$48.50	\$43.83	
B Project Construction Contracts			<i>millions</i>		<i>millions</i>		<i>millions</i>		<i>millions</i>	
1	1250	Synergy Inc	Utility Relocation 1	\$11.97	20%	\$11.97	97.2%	\$2.39	\$11.63	96.4%
2	1251	Synergy Inc	Utility Relocation 2	\$20.79	20%	\$20.79	87.4%	\$4.16	\$18.18	94.9%
3	1252	BIH	Tunnels and Portal - in Construction	\$241.29	6%	233.70	5.8%	\$14.48	\$13.66	6.1%
4	1277	MH Construction	Pagoda Demolition	\$0.68	100%	\$0.64	100.0%	\$0.68	\$0.64	100.0%
5	1300	Tutor-Perini	Stations/Track/Systems - in Construction	\$842.61	20%	\$362.88	17.2%	\$168.52	\$62.56	25.5%
Subtotal Construction Contracts				\$1,117.34		\$629.98		\$190.23	\$106.66	
Contract	Contractor	Services/Segment	Base Contract	SFMTA Goal	Expenditures	SBE Actual	= A * B	= C * D	Bid Goal	
			A	B	C	D	E	F	G	

SBE Summary Table Notes and Sources:

- a) Column A is the base contract amount awarded. Column B is the Agency SBE goal percent for each contract awarded.

The SFMTA SBE Contract Goals are also on the Central Subway web site under the listing of on-going contracts – see “**Closed and Awarded Contracts**” at this link: <http://centralsubwaysf.com/content/closed-and-awarded-contracts>

- b) Column C shows each contract’s current amount expended to date (estimated) including accruals. Column D is the actual SBE percent level of each contract based on payments to date.

Column E is the expected SBE dollar amount when the contract amount is completed and the SFMTA SBE goal achieved using this calculation: Columns A * B = Column E, the SBE Expected \$ Amount.

Column F is the actual SBE dollar amount out of the total contract expenditure to date:

Columns C * D = Column F, the SBE Expended \$ Amount.

The source of the SBE Actual percent to date and dollar amounts are Progress Payment Applications and Contractor’s monthly submittals that may include the current estimated accruals. The BIH SBE percent is from the contractor’s progress payment #40, Form 6.

¹ An SBE is a for-profit, small business concern with a three (3) year average gross revenue not exceeding \$14 million or \$12 million, depending on the scope of work to be performed, that is certified under any of the following programs: the State of California’s Small Business Program with the Department of General Services (“State Program”), the City and County of San Francisco’s LBE Program (“City Program”), or the California Unified Certification Program (“Federal DBE program”).

- c) Column G, the Contractor's SBE Goal in the submitted bid, is background information that is not calculated in the table. The table source of the Contractor's SBE Goals is from the SFMTA Contract Compliance Office. A Contractor's SBE goal in the bid is one source used by SFMTA Contract Compliance to assess and propose the Agency's SBE goal for a contract.
- d) The three constructions contracts shown in **bold type, 1250, 1251 and 1277**, with gray background, are completed contracts. Little to no changes will be shown in future reports.
- e) The SBE Hill International Actual to Date SBE participation is 28.9% for the overall SFMTA contract. The Hill International data is for the Central Subway Task 1 portion of the Hill International contract to provide SFMTA Project Controls services and systems.
- f) The SBE SFMTA goal for Contract 1300 Tutor-Perini is 20% SBE with a provision of 50% for trucking.
The 1300 Tutor-Perini SBE percent Actual is based on the SBE data provided in Progress Payment #27, March 2016, SFMTA SBE FORM No. 6.
- g) The SBE SFMTA goal for Contract 1277 MH Construction was based on an SBE set-aside.

SBE Participation Details

The two tables that follow present the Central Subway's professional services and construction contract amounts, expenditures and SBE levels with additional details.

Active Professional Services Contracts - SBE Participation Details

As of: 3/31/2016

Contract:	Project Management and Construction management	
Contract No.	CS-149 Central Subway Partnership	
Status:	On-going	
	Base Contract Value	\$85,139,092
	Approved Change Orders	-0-
	Current Contract Value	\$85,139,092
	Expended to Date (est.)	\$52,936,912
	% Expended	62.2%
	SBE Participation	35.4%

Contract:	Project Controls Cost and Schedule Support	
Contract No.	CS 156 Hill International Task 1*	
Status:	On-going	
	Base Contract Value	\$17,112,873
	Approved Change Orders	-0-
	Current Contract Value	\$17,112,873
	Expended to Date (est.)	\$9,018,724
	% Expended	52.7%
	SBE Participation	29.1%

Contract:	Design Package 1 for CNs 1250, 1251 and 1252 Tunnels*	
Contract No.	CS-155-1 PB / Telemon	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$5,795,000
	Approved Change Orders (7)	\$2,145,159
	Current Contract Value	\$7,940,159
	Expended to Date (est.)	\$7,754,848
	% Expended	97.7%
	SBE Participation	29.6%

Contract:	Design Package 2 for 1253 UMS, 1254 CTS, 1255 YBM Stations.	
Contract No.	CS-155-2 Central Subway Design Group	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$35,059,252
	Approved Change Orders (1)	\$1,460,360
	Current Contract Value	\$36,519,612
	Expended to Date (est.)	\$31,436,143
	% Expended	86.1%
	SBE Participation	41.8%

Contract:	DP 3 Systems, Track work, Surface station.	
Contract No.	CS-155-3 HNTB-B&C	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$16,822,238
	Approved Change Orders (5)	\$312,814
	Current Contract Value	\$17,232,252
	Expended to Date (est.)	\$24,719,950
	% Expended	143.5%
	SBE Participation	27.6%

Active and Completed Construction Contracts - SBE Participation Details

Data as of: 3/31/2016

Contract:	Synergy Inc Utility Relocation 1 YBM & Launch Box	
Contract No.	1250	
Status:	Contract is completed and closed out	
	Base Contract Value	\$9,273,939
	Approved Change Orders	\$2,694,211
	Final Contract Value	\$11,968,150
	% Expended	100%
	SBE SFMTA Goal	20%
	SBE Participation To Date	97.2%

Contract:	Synergy Inc Utility Relocation 2 UMS	
Contract No.	1251	
Status:	Contract is completed and closed out	
	Base Contract Value	\$16,832,550
	Approved Change Orders	3,962,031
	Final Contract Value	\$20,794,581
	% Expended	100%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	87.4%

Contract:	Pagoda Palace Demolition / MH Construction	
Contract No.	1277	
Status:	Construction is complete. Contract in Close Out	
	Base Contract Value	\$498,995
	Approved Change Orders	\$179,139
	Current Contract Value	\$678,134
	Expended to Date (est.)	\$638,278
	% Expended	94.12%
	SBE SFMTA Goal	100.0%
	SBE Participation To Date	100.0%

Contract:	Tunnels Barnard/Impregilo/Haley	
Contract No.	1252*	
Status:	Construction is underway and ongoing	
	Base Contract Value	\$233,584,015
	Approved Change Orders	\$8,084,852
	Current Contract Value	\$241,668,867
	Expended to Date (est.)	\$233,697,189
	% Expended	96.7%
	SBE SFMTA Goal	6.0%
	SBE Participation To Date	5.8%

Contract:	Stations and Systems / Tutor Perini	
Contract No.	1300*	
Status:	Construction is underway and ongoing	
	Base Contract Value	\$839,676,400
	Approved Change Orders	\$2,933,000
	Current Contract Value	\$842,609,400
	Expended to Date (est.)	\$362,881,108
	% Expended	43.1%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	20.1%

Photos on the next page:

Following the tremendous success of Winter Walk 2014, the green turf, vintage-inspired lamp posts, and nightly light show were set up once more for the 2015 holiday season. Off the Grid food trucks were present for four days a week, offering a wide variety of culinary delights. Winter Walk's pedestrian plaza was set up on Stockton between Geary and Ellis.

central subway

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