

# central subway

## Taking Shape at Union Square

Structural steel elements of the north entrance structure of Union Square/Market Street are coming together.



## Progress Report

February 2017



**SFMTA**  
Municipal  
Transportation  
Agency

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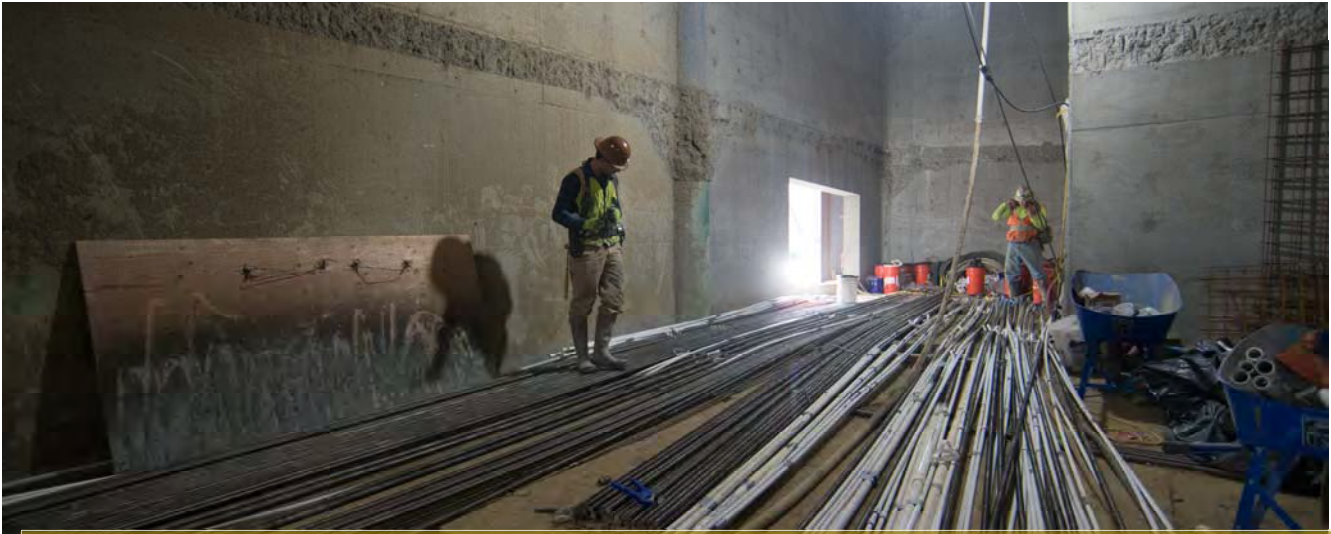
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**Cover photo:** The general form of the north station entrance at Union Square begins to take shape, thanks to the installation of major structural steel elements. Soon workers will begin constructing the street-level deck and footings for future stairs and elevators, as well as preparing terrace foundations for restoring a small portion of the square within the worksite. **More photos can be found starting on page 36.**

**Above photos:** Dueling excavators help remove sections of pavement near a utility trench at 4th and Welsh, where new sewers and AWSS lines are being installed. This work has been moving section by section up the east side of 4th between Brannan and Bryant.

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/>



*Workers sort long pieces of rebar and conduit inside an opening adjacent to the future north station entrance.*

## Executive Summary

Continued excavation at YBM, UMS and CTS Stations as we advance to the respective station inverts. STS continues tunnel invert drain pipe and catch basins installations in the Southbound and Northbound tunnels.

**Chinatown Station** - Headhouse excavated to 16' below Temp Level 5.0 walers and struts. Breakout/excavation of the Platform Caverns (North and South) continues, Right Side Drift and Left Side Drift for both headings. Incidental street work (minor), ongoing monitoring and surveying. Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel.

**Union Square/Market Street Station** - North Concourse: Install utilities. Platform Station: Continue to excavate below intermediate strut level and install structural steel. UMS North Entrance- Erection of structural steel, and installation of column casings continued. Excavation, and installation of soil nails and shotcrete commenced and progressed to Lift 2 along the fan trench between gridlines 16 and 17. Union Square Garage Ramps - PCC-144- Completed painting of columns on new garage ramps

**Yerba Buena/Moscone Station** - Utility work, including catch basin and sewer sleeve near Stair #1 completed on west side of 4<sup>th</sup> Street. Street and sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection. Excavation to Invert level beneath Temporary Strut Level 6 is nearly complete to south headwall in Station Box. Placement of waterproofing and 3rd of 3 mud slabs within station box at Invert Level is in progress. Installation of metal stairs at Stair 1 and Stair 4 are in progress. Placement of mechanical equipment curbs on Mezzanine Level is in progress.

**Surface, Track and Systems**— Continued 36" sewer rehabilitation. Continued 48" sewer installation. Continued MRY ductbank installation. Continued AWSS installation. Continued pavement renovation. Continued invert slab construction.

**Tunnel** - Contract administrative closeout is ongoing.

Total project costs to date are \$1,036.05 million, an increase of \$10.05 million over last month. The total cost to date equals 65.64% of the total project budget of \$1.578 billion. The Master Project Schedule forecasts a Revenue Service Date of October 2019.

The Stations Contractors' Safety Reports shows that one recordable accident took place this month. The rates of work site accident incidents by the man hours worked, continue to be below industry standards - see tables on page 33.

# Key Milestones

## Installing structural steel for the UMS north station entrance



1 The site is graded and a concrete slab is poured

MILESTONE	DATE EXPECTED
<b>General</b>	
Revenue Service	October 2019
<b>Contract 1300 Stations, Surface, Track, Systems</b>	
Notice to Proceed (NTP 1)	June 17, 2013 (A)
Notice to Proceed (NTP 2)	January 12, 2014 (A)
Substantial Completion	February 10, 2018



2 Existing columns and structural elements are reinforced



3 Steel members are installed

# 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 \$1,036.05 million, a \$10.05 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,001.24 million) plus the utilities joint trench Form B Reimbursement payment (\$11.15 million), invoices currently being processed (\$19.60 million) and estimates of outstanding pay requests (\$4.06 million). This incurred amount equals 65.64% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,329.79 million. This represents 84% of the total project budget.

## Earned Value Analysis

In February 2017 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA February Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

### Preliminary February Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,336,440,370
Earned Value:	\$1,028,349,131
Actual Cost:	\$1,036,046,099
Schedule Performance Index (SPI):	0.77
Cost Performance Index (CPI):	0.99
Percent Complete:	65.1%

## Schedule Highlights

The Master Project Schedule (MPS) below includes progress through February 2017. The February 2017 Schedule Update submittal from Contract 1300 Contractor was not submitted due previous update corrections that needed to be completed before TPC provide the February update. The Contract 1300 schedule represented in this report is based on the SFMTA February 2017 Schedule Update.

The MPS shows a forecast Revenue Service Date of October 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. Excavation and Support of the Top Right Heading & Bench continues with lower than expected levels of production. Despite expected ground conditions as described in the GBR, TPC's mining productivity has not been as planned. TPC has continued the mitigation effort to institute two-twelve hours shifts or six days per week, in an effort to recover some lost time. Contract 1300 Schedule shows 17 days of delay in February with a new forecasted Revenue Service Date of 21 October 2019

Contract 1300 Contractor submitted twenty-seven (27) Schedule Updates from December 2014 to February 2017. SFMTA rejected sixteen (15) Schedule Updates from November 2015 to April 2016 and June to February 2017. SFMTA approved as noted the September 2015, October 2015 and May 2016 Schedule Updates. 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 schedule. The preliminary SFMTA Contract 1300 February 2017 schedule is used within the February Report. The SFMTA Contract 1300 February 2017 schedule is based on the approved baseline schedule logic with adjustments made for fixing retained logic and lags. The SFMTA will continue to use the SFMTA 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.



Survey markers and utilities line the shotcrete walls of the side drifts during the initial phase of platform cavern excavation.



## Schedule Highlights - Continued

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

- Head house- excavated to 16' below Temp Level 5.0 walers and struts
- Breakout/excavation of the Platform Caverns (North and South) continues, Right Side Drift and Left Side Drift for both headings
- Incidental street work (minor), ongoing monitoring and surveying
- Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel

•

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

- North Concourse: Install utilities. Installation of soil nail wall to facilitate excavation of remainder of concourse area.
- Platform Station: Continue to excavate below intermediate strut level and install temporary structural steel.
- UMS North Entrance – Erection of structural steel, and installation of column casings continued. Excavation, and installation of soil nails and shotcrete commenced and progressed to Lift 2 along the fan trench between gridlines 16 and 17.
- Union Square Garage Ramps - PCC-144- Completed painting of columns on new garage ramps

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

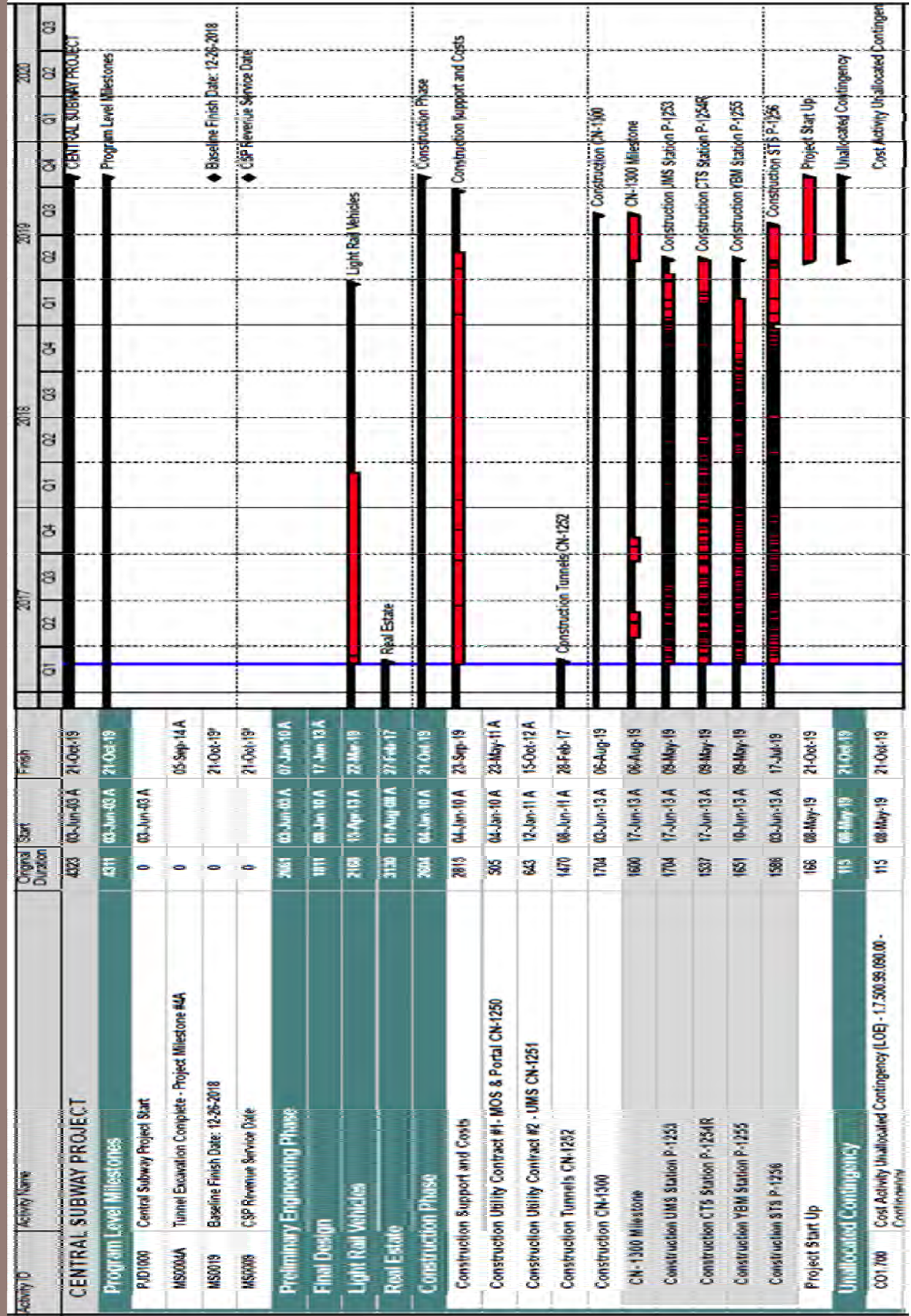
- Utility work, including catch basin and sewer sleeve near Stair #1 completed on west side of 4<sup>th</sup> Street
- Street and sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Excavation to Invert level beneath Temporary Strut Level 6 is nearly complete to south headwall in Station Box
- Placement of waterproofing and 3rd of 3 mud slabs within Station Box at Invert Level is in progress
- Placement of concrete in Invert Level sections 1 to 3 of 6 is completed in the Station Box
- Preparation for Invert concrete placements 4 to 6 of 6 in Station Box is in progress
- Installation of metal stairs at Stair 1 and Stair 4 are in progress
- Placement of mechanical equipment curbs on Mezzanine is in progress

## Schedule Highlights - Continued

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

- Continued 36" sewer installation at 4<sup>th</sup>/Brannan intersection
- Continued MRY ductbank at 4<sup>th</sup>/Townsend intersection
- Continued pavement renovation on 4<sup>th</sup> Street between King and Welsh
- Continued AWSS lateral installation on 4<sup>th</sup> Street between Welsh and Freelon
- Continued AWSS main installation at 4<sup>th</sup>/Bryant
- Continued water line installation at 4<sup>th</sup>/Townsend
- Continued 36" sewer installation at 4<sup>th</sup>/Welsh intersection
- Continued 48" sewer installation at 4<sup>th</sup>/Welsh intersection
- Continued invert slab construction at tunnel portal

# Master Project Schedule





*The easternmost section of the road slab has been constructed on 4th between Freelon and Brannan. Here, workers clean up the work site after removing pieces of concrete forms.*

## Contracts & Construction

### Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$846.06 million
- Contract Status: 54.32% 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

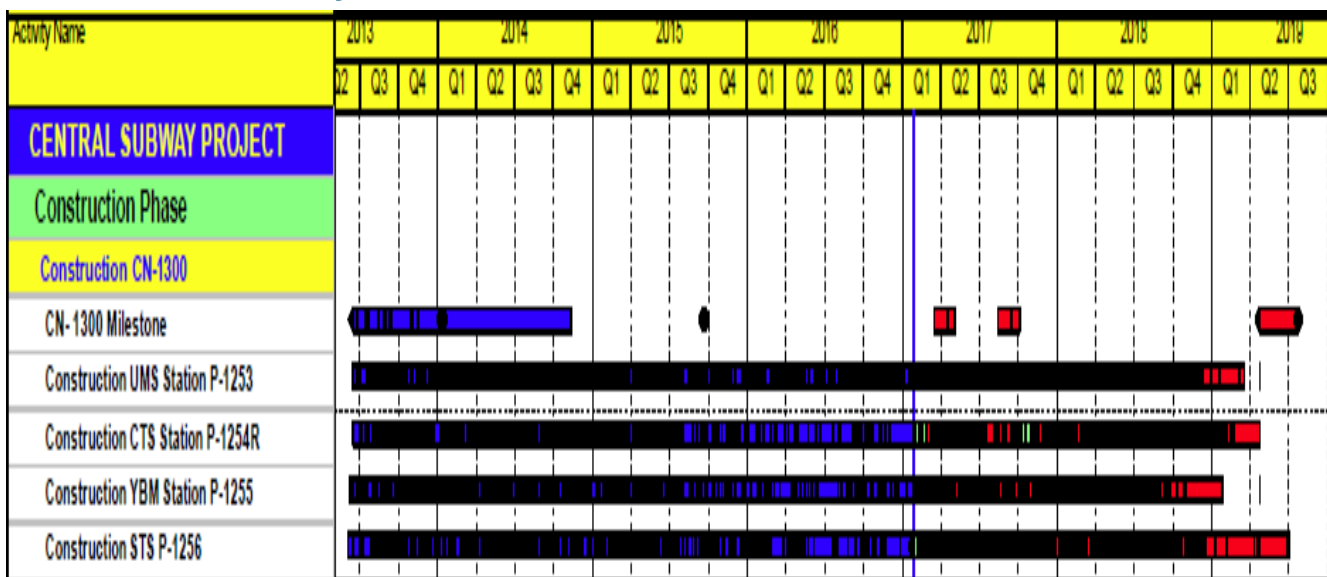
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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:	\$6,382,420
Current Contract Value :	\$846,058,820

Budget/Expenditures▲	
Current Budget	\$879,676,400
Other Project Offset Credits	\$2,960,721
Expenditures to Date	\$464,651,618

## 1300 Summary Schedule



# Chinatown Station

## Contract 1300 - Work Package 1254R



### Current Work Status

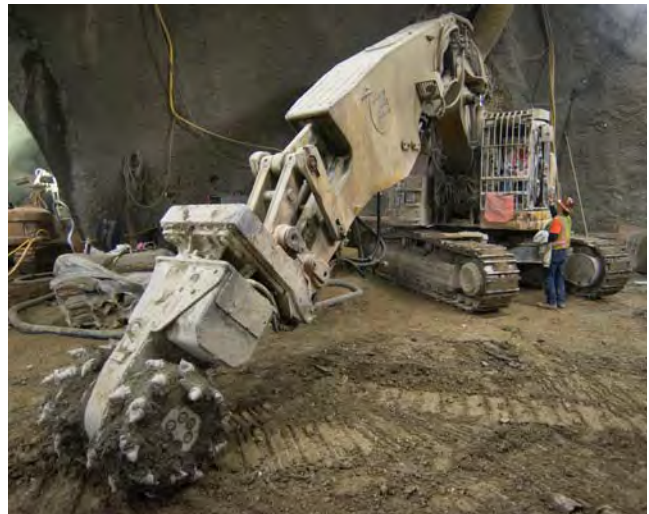
- Head house- excavated to 16' below Temp Level 5.0 walers and struts
- Breakout/excavation of the Platform Caverns (North and South) continues, Right Side Drift and Left Side Drift for both headings
- Incidental street work (minor), ongoing monitoring and surveying
- Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel

### Work Expected Next Month

- Completed Chinese New Year Moratorium, adjustments made in vicinity of North Emergency Egress Shaft
- Platform Caverns (North and South) – continue with excavation of Left and Right Side Drifts top heading, bench, and temporary invert
- Platform Caverns (North and South) – begin Left and Right Side Drift inverts
- Joint trench work along Chinese United Methodist Church on Washington Street to begin

### Description of Work

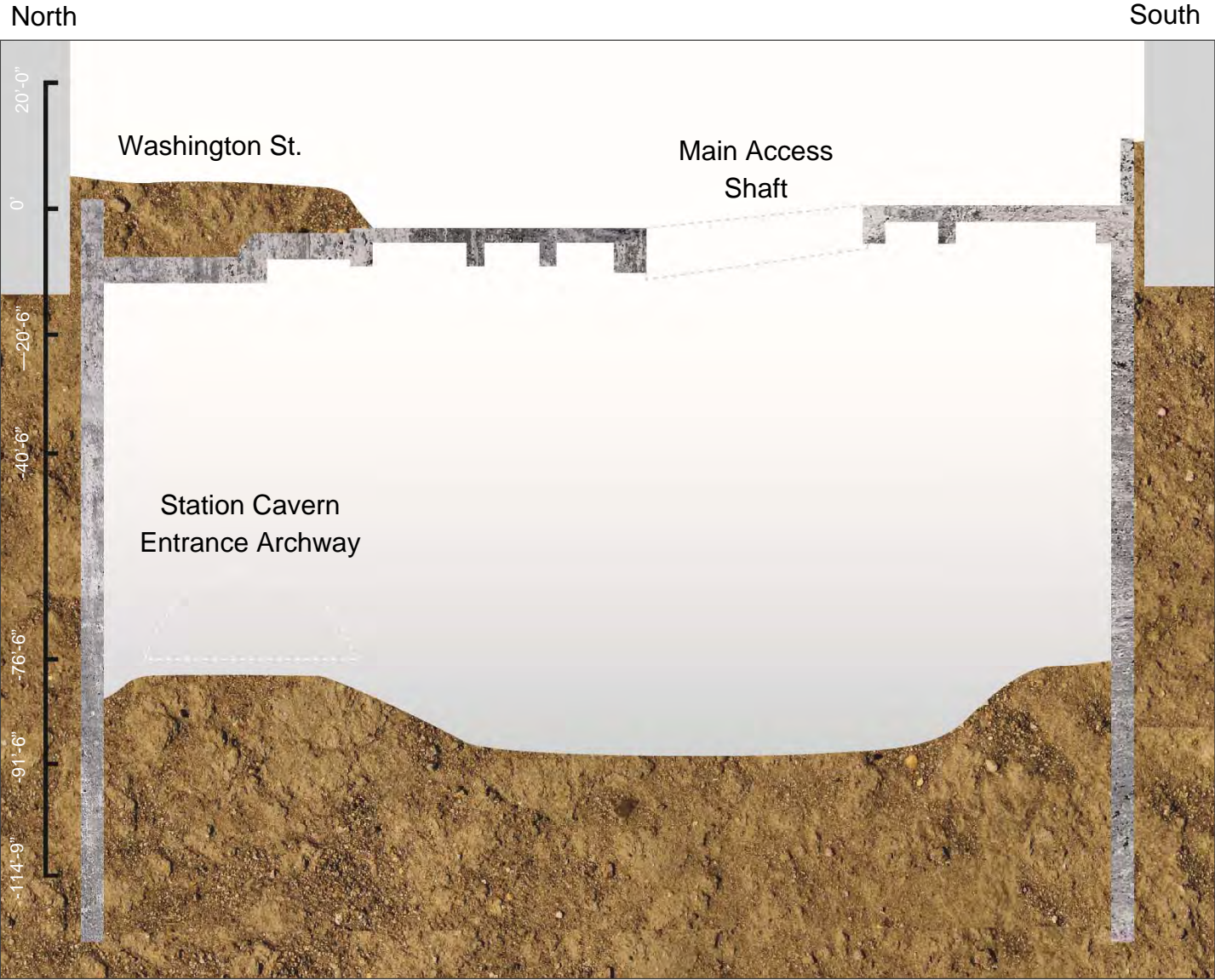
This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA,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



### Three Month Look Ahead

- Head house: Provide logistic support area for tunnel excavation
- North and South Platform Cavern excavation will be ongoing

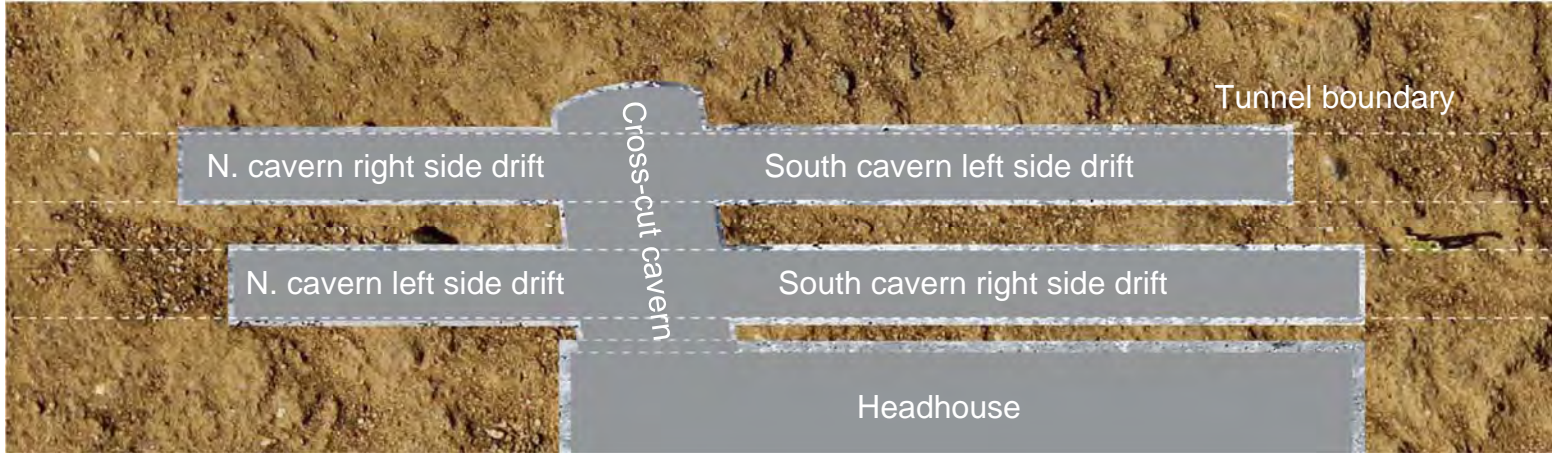
### Station Excavation and Construction Progress Section



### Station Cavern Excavation Progress Plan and Section

North

South



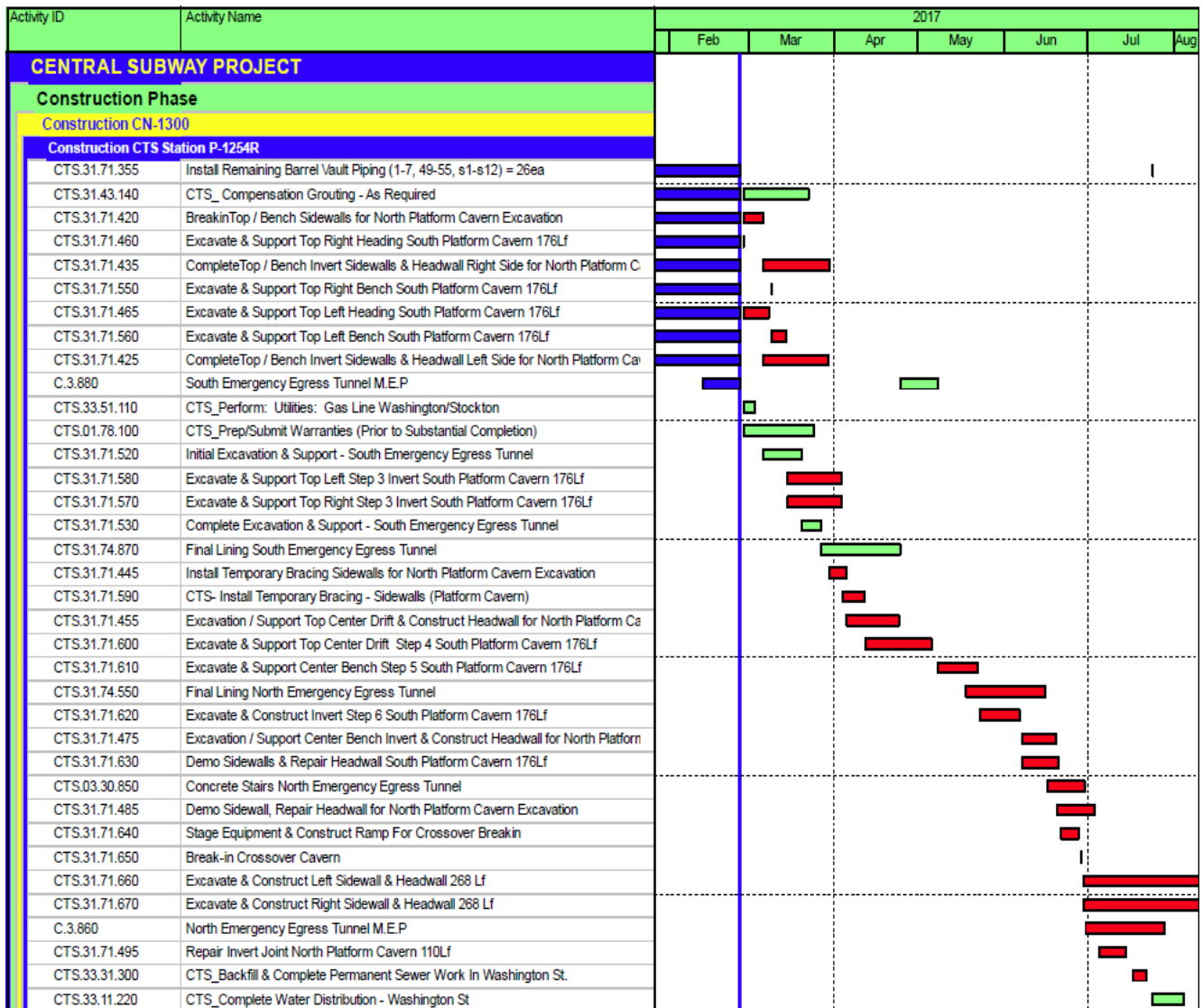


# Chinatown Station Construction Status - Continued

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:	\$2,859,843
Current Contract Value:	\$250,427,653

Budget/Expenditures	
Current Budget	\$257,567,810
Other Project Offset Credits	\$54,488
Expenditures to Date	\$129,938,601

## CTS Three Month Schedule



# 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

- North Concourse: Install utilities. Continue and complete chipping of north headwall.
- Platform Station: Continue to excavate below intermediate strut level and install structural steel. Complete excavation and continue with steel installation at Emergency Egress Stairs 3&4 on O'Farrell Street
- South Concourse/Ellis St: Pour concrete slabs at South Concourse, continue with backfilling Ellis Street
- UMS North Entrance – Slab on Grade Completed. Erection of structural steel commenced. Underground Storage tanks removed from Fan Level Trench area
- Union Square Garage Ramps - PCC-144-Completed concrete restoration work on new garage ramps

## Work Expected Next Month

- Nighttime lane closures expected for utility work
- North Concourse: Continue to install utilities. Excavation and structural steel deliveries and installation resumes
- Platform Station: Continue to excavate and install structural steel support system. Excavate and install support in Emergency Egress Stairs 3&4 on O'Farrell Street
- Ellis Annex: Install OCS overhead cables and permanent poles, lightweight concrete, and backfill. Install utilities on Ellis Street
- UMS North Entrance – Continue structural steel erection. Commence excavation of Fan Level Trench along GL 17
- Union Square Garage – complete testing and

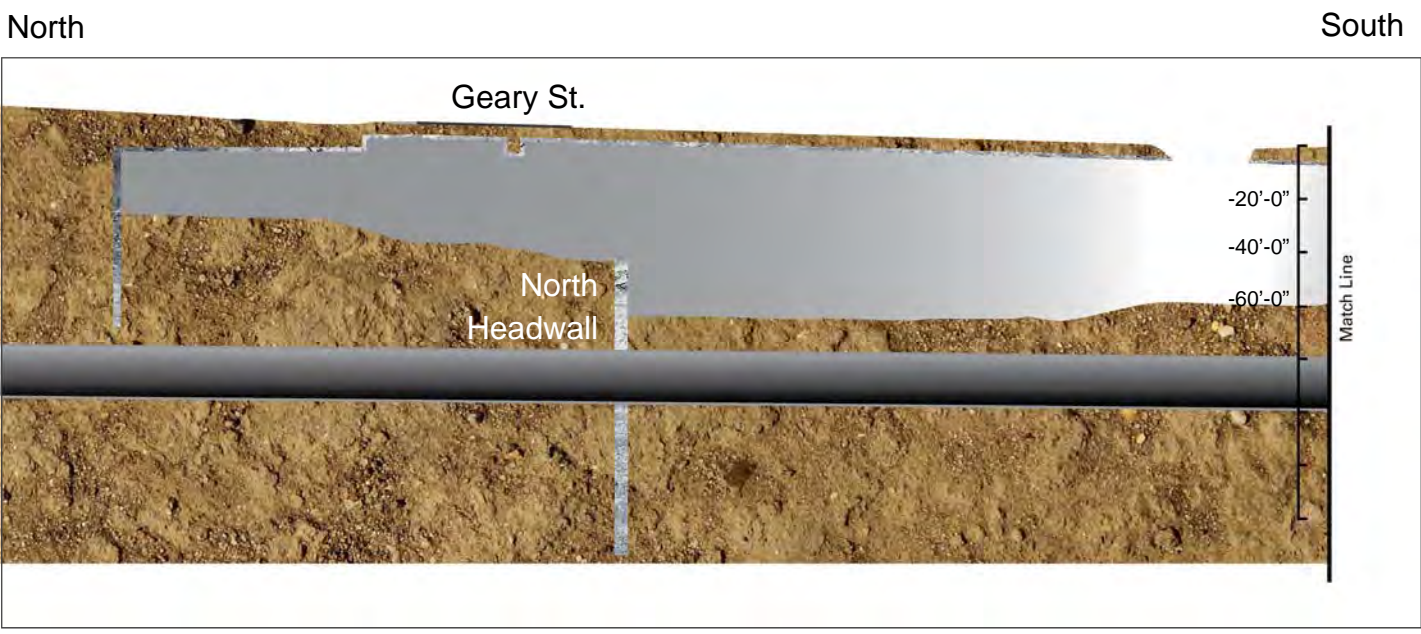


commissioning of new fire and life safety devices within garage

## Three Month Look Ahead

- Platform Station: Continue install utilities and restore street; dewatering; install permanent wales; excavate bench; install studs, mesh, drain pipe & shotcrete pile walls
- Access Shaft: bottom out access shaft excavation. Install invert slab
- UMS North Entrance – Complete structural steel, surface level deck, and fan level trench excavation. Union Square Garage – Open new ramp for public use

### Station Excavation and Construction Progress Section

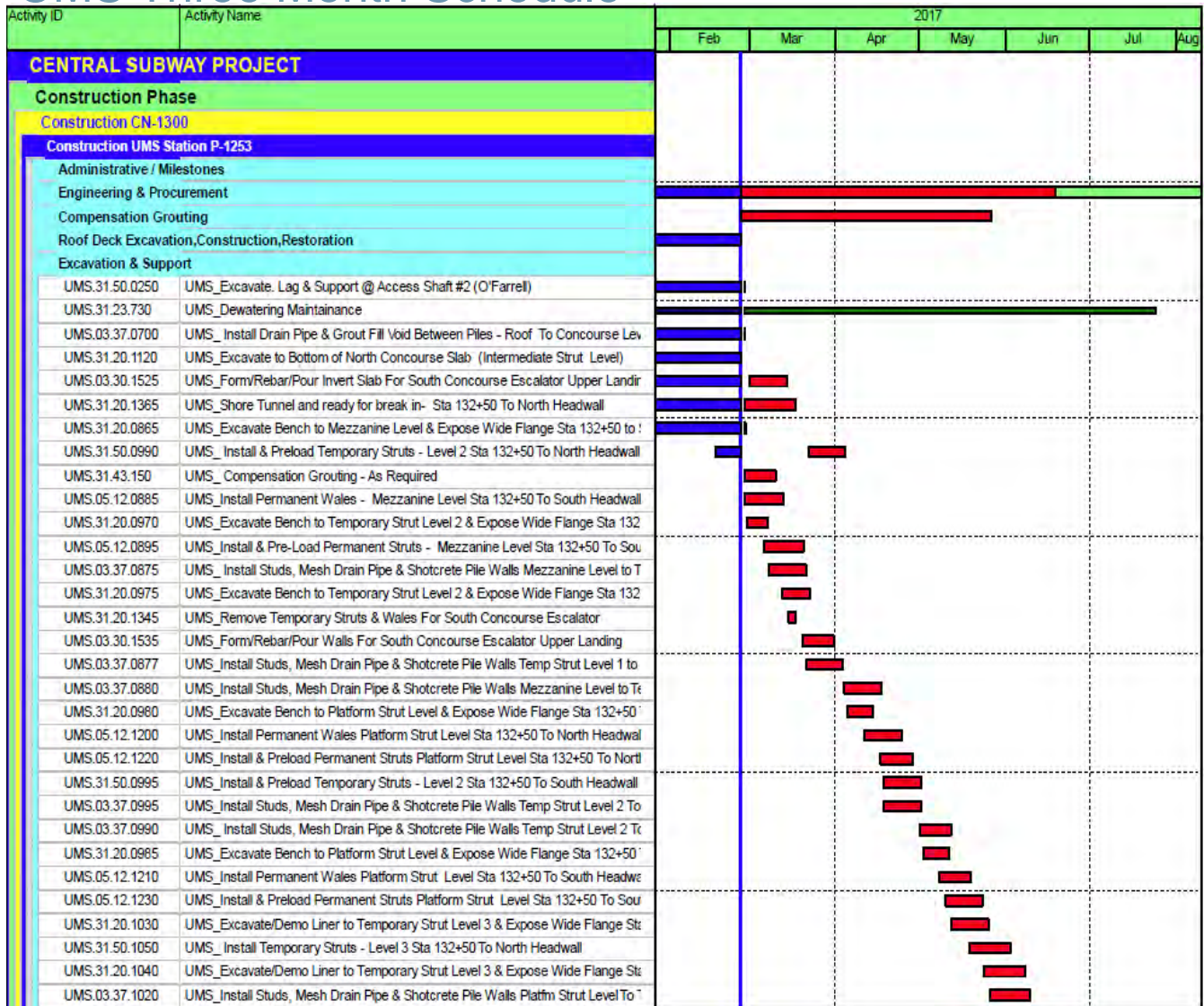


# Union Square Market Street Station Construction - Continued

Contract Details	
<b>Contract Awarded:</b>	<b>May 21, 2013</b>
<b>Notice to Proceed:</b>	<b>June 17, 2013</b>
<b>Substantial Completion:</b>	<b>February 10, 2018</b>
<b>Contract Award Value:</b>	<b>\$294,030,590</b>
<b>Modifications to Date:</b>	<b>\$1,849,309</b>
<b>Current Contract Value:</b>	<b>\$295,879,899</b>

Budget/Expenditures ▲	
<b>Current Budget</b>	<b>\$314,030,590</b>
<b>Expenditures to Date</b>	<b>\$185,775,696</b>

## UMS Three Month Schedule



# 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

- Utility work, including catch basin and sewer sleeve near Stair #1 completed on west side of 4<sup>th</sup> Street
- Street and sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Excavation to Invert level beneath Temporary Strut Level 6 is nearly complete to south headwall in Station Box
- Placement of waterproofing and 3rd of 3 mud slabs within Station Box at Invert Level is in progress
- Placement of concrete in Invert Level sections 1 to 3 of 6 is completed in the Station Box
- Preparation for Invert concrete placements 4 to 6 of 6 in Station Box is in progress
- Installation of metal stairs at Stair 1 and Stair 4 are in progress
- Placement of mechanical equipment curbs on Mezzanine is in progress

## Work Expected Next Month

- Continue interior finishes on Mezzanine & Concourse Levels
- Complete excavation to Invert Level be-

neath Level 6 Temporary Struts in Station Box and in Headhouse

- Continue installation of mud slab, waterproofing, and protective concrete for Invert slab sections 4 through 6 within Station Box
- Continue placement of Invert Level concrete slab sections within Station Box
- Begin installation of mud slab, waterproofing, and protective concrete for Invert slab sections 7 through 9 within Headhouse
- Complete street and sidewalk restoration on west side of 4<sup>th</sup> Street south of Howard Street intersection

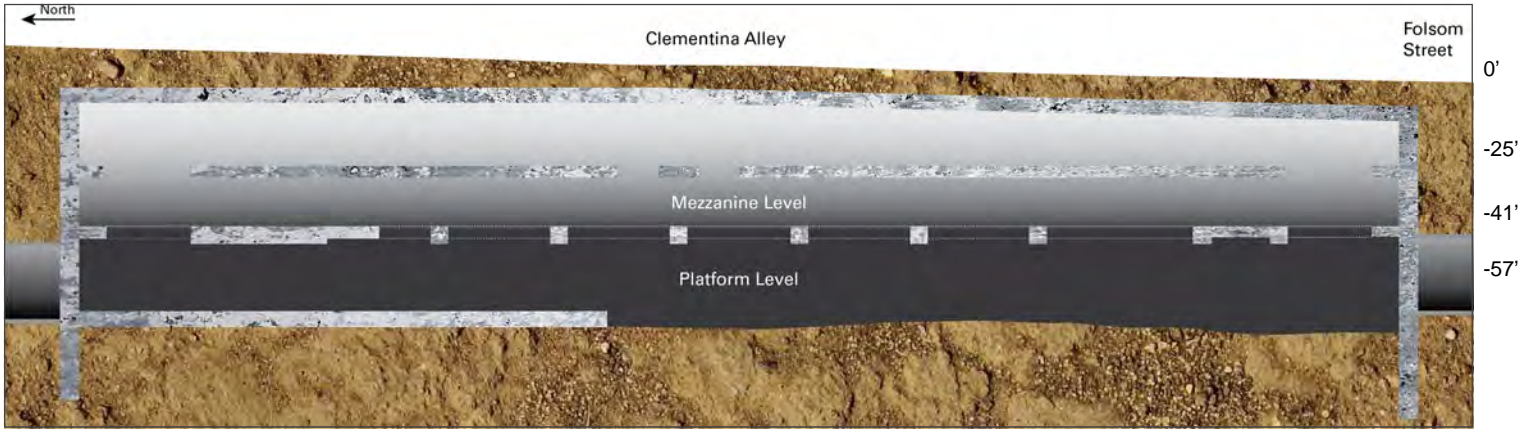
## Three Month Look Ahead

- Continue to place Invert slab rebar and concrete within Station and Headhouse and prepare to construct Concourse and Mezzanine slabs from bottom up within Headhouse
- Continue interior finishes on Mezzanine & Concourse Levels within Station Box
- Continue placement of stairs within Station and Headhouse
- Begin installation of station power electrical vaults on Folsom Street
- Switch traffic handling and resume installation of 36" force main sewer within 4<sup>th</sup> Street and Howard Street intersection

### Station Excavation and Construction Progress Section

North

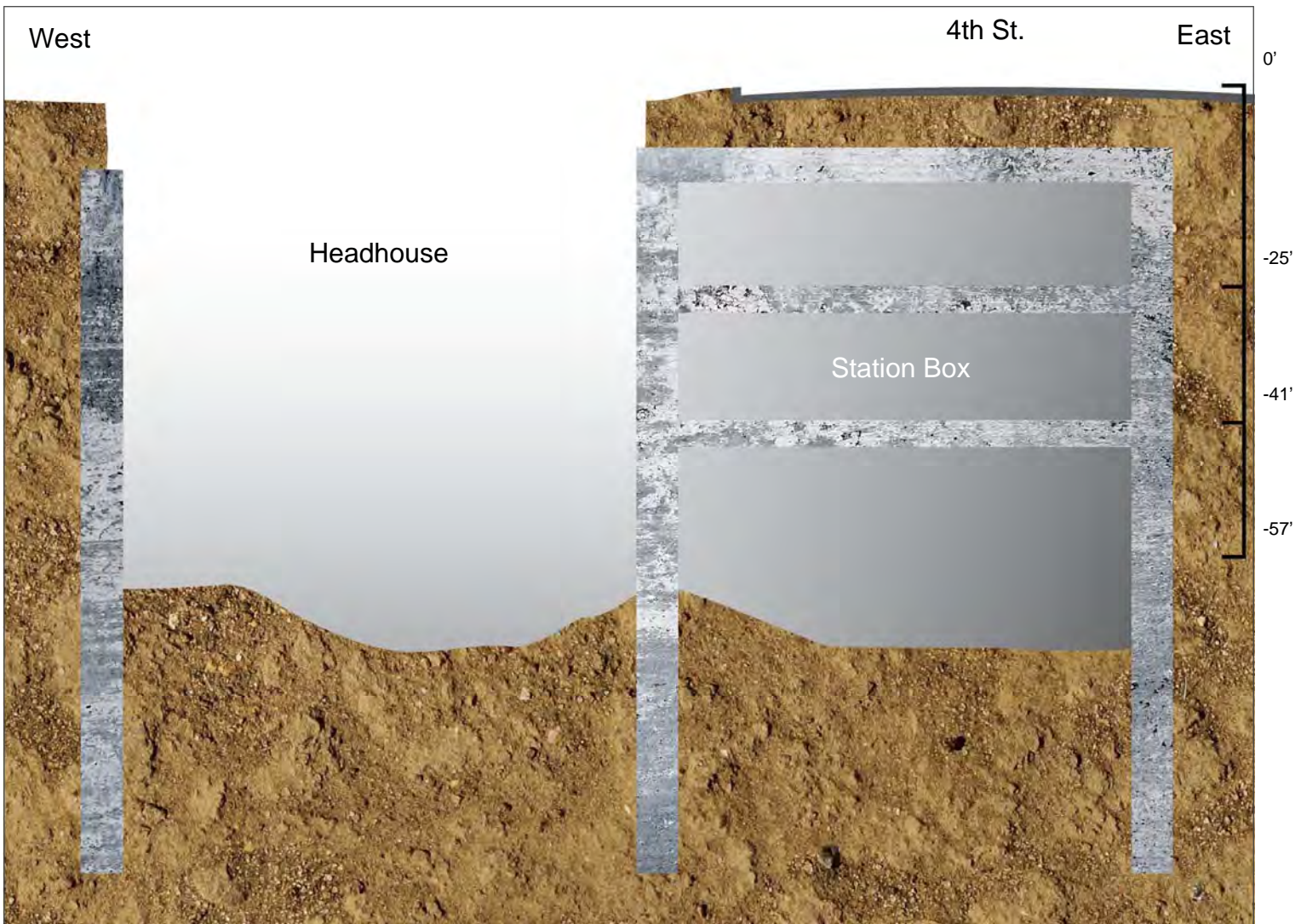
South



West

4th St.

East

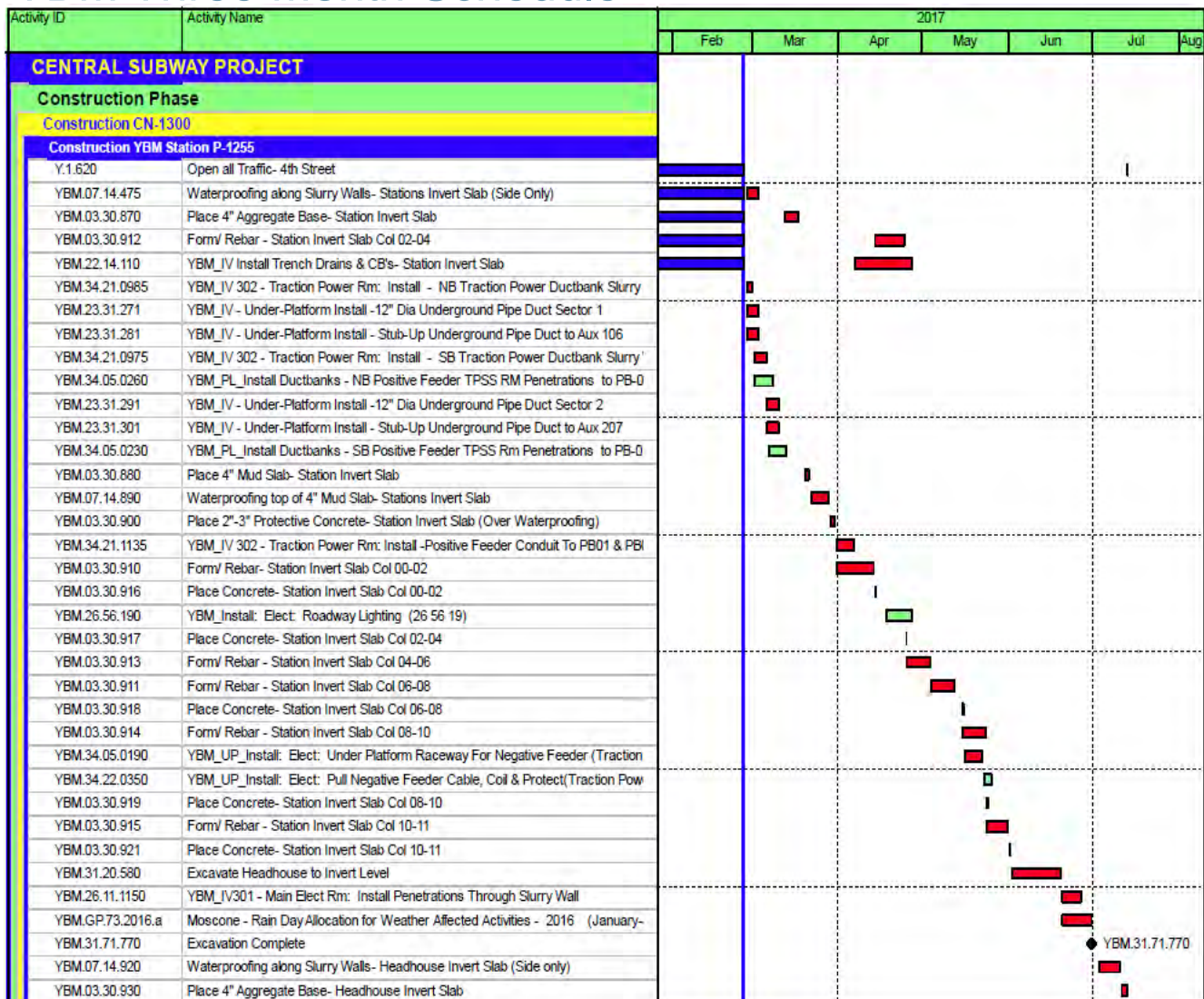


# Yerba Buena Moscone Station Construction - Continued

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:	(\$150,129)
Current Contract Value:	\$157,938,871

Budget/Expenditures ▲	
Current Budget	\$163,089,000
Other Project Offset Credits	\$273,467
Expenditures to Date	\$96,138,153

## YBM Three Month Schedule



Schedule: Contract 1300 February 2017 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

- Continued 36" sewer installation at 4<sup>th</sup>/Brannan intersection
- Continued MRY ductbank at 4<sup>th</sup>/Townsend intersection
- Continued pavement renovation on 4<sup>th</sup> Street between King and Welsh
- Completed track drain and tunnel invert construction
- Continued AWSS lateral installation on 4<sup>th</sup> Street between Welsh and Freelon
- Continued water line installation at 4<sup>th</sup>/Townsend
- Started 36" sewer installation at 4<sup>th</sup>/Welsh intersection
- Started 48" sewer installation at 4<sup>th</sup>/Welsh intersection
- Started invert slab construction at tunnel portal

### Work Expected Next Month

- Continued 48" sewer installation
- Continued 36" sewer installation
- Continued MRY ductbank installation
- Continued AWSS installation
- Continued water line installation
- Continued pavement renovation
- Continued invert slab construction at tunnel portal



### Three Month Look Ahead

- Continued waterline installation
- Continued AWSS installation
- Continued MRY ductbank installation
- Continued 36" sewer force main installation
- Continued 48" sewer force main installation
- Continued OCS pole installation
- Continued invert slab construction at tunnel portal
- Continued permanent pavement renovation
- Start track installation

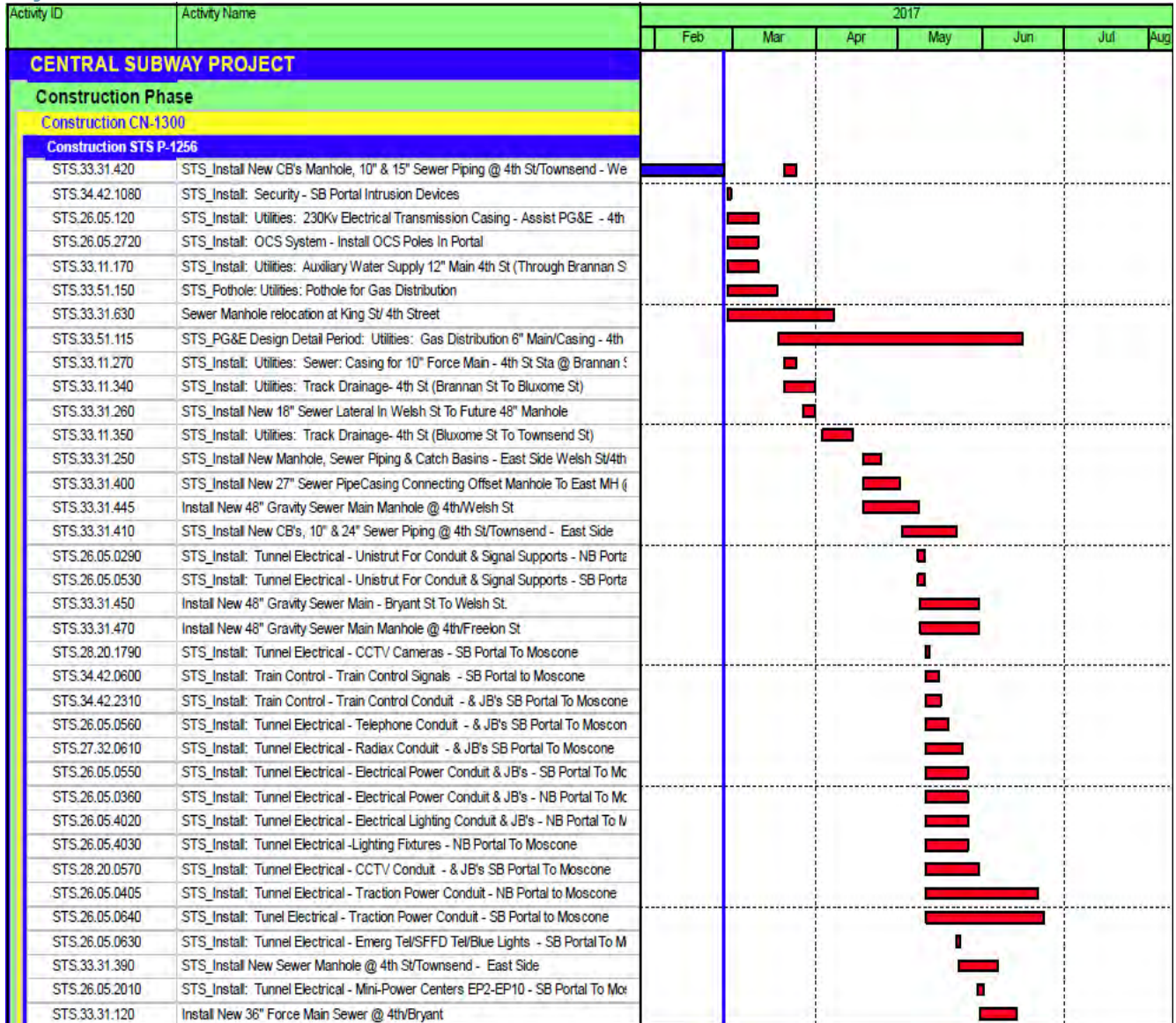


# Systems, Trackwork, & Surface Station Construction - Continued

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:	\$1,823,396
Current Contract Value:	\$141,812,396

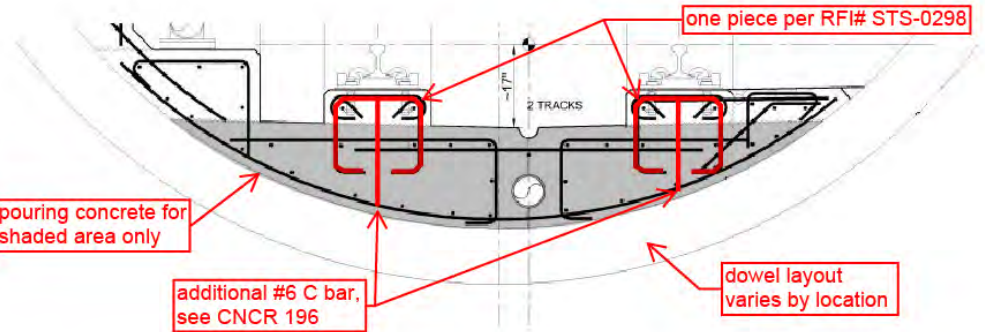
Budget/Expenditures	
Current Budget	\$144,989,000
Other Project Offset Credits	\$2,632,766
Expenditures to Date	\$49,892,935

## Systems, Track and Surface Station Three Month Schedule



Schedule: Contract 1300 February 2017 Update

# STS Invert Slab Progress



Total length for both tunnels is approx. 10,240 feet.  
Measured progress is combined for both tunnels.  
**Red** = 86% complete; 8,840 feet  
**Blue** = 14% to be completed; 1,400 feet

# Program Components

## Community Outreach

**Outreach public information, events and presentations for February 2017 include:**

- Conducted Community Advisory Group Meeting
- Conducted Central Subway tours for Women’s Transportation Seminar, local media, and French delegation
- Continued noise mitigation meetings with Tutor Perini and community stakeholders
- Ongoing outreach to merchants and residents
- Conducted meetings and face-to-face visits with various merchant stakeholders along the alignment
- Preparation and dissemination of construction notices
- Produced quarterly construction update video and other multimedia content
- Responded to constituent complaints
- Coordinated video shoot with the SF Hotel Council and Union Square BID

### Outreach in Support of Mitigation and Monitoring

Team members participated in weekly progress to address neighborhood concerns

Outreach and communication efforts continue in Chinatown, Union Square, and SOMA

Weekly photo documentation of project work and editing

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

### Media Coverage

Central Subway Media Coverage			
Date	Title (with link to story)	Source	Reporter/Writer
2/23/2017	<a href="http://www.bizjournals.com/sanfrancisco/news/2017/02/23/mission-bay-2017-transportation-bart-subway-ferry.html?ana=tw">http://www.bizjournals.com/sanfrancisco/news/2017/02/23/mission-bay-2017-transportation-bart-subway-ferry.html?ana=tw</a>	San Francisco Business Times	Daphne Sashin
2/26/2017	<a href="#"><i>San Francisco's Big Dig Ahead Of Schedule</i></a>	CBS Channel 5 KPIX	Wilson Walker
2/27/2017	<a href="http://sf.curbed.com/2017/2/27/14755272/central-subway-photos-chinatown-sf">http://sf.curbed.com/2017/2/27/14755272/central-subway-photos-chinatown-sf</a>	Curbed San Francisco	Adam Brinklow

# 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 structural steel installation – Continued Inspection/acceptance/documentation by Smith Emery CWI's of all welds associated with the ongoing Installation of some structural and mostly excavation support steel
- 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 and Initial Phase Meetings continue as scheduled. Additional Initial Phase Meetings are conducted at the request of the SFMTA or TPC QC as circumstances demand or as unanticipated issues occur
- Sequential Excavation Method (SEM) Meetings (daily at 8:00 am at the CTS site) and Instrumentation/Monitoring and Construction Management Task Force (CMTF) Meetings (Tuesdays and Fridays; changed from Thursday to better align with SEM convergence and pressure cell readings that are taken Monday and Thursday) at 9:00 am
- Bi-Weekly Quality Task Force (QTF) Meetings – ongoing dialog regarding; planning for upcoming Work, identification and mitigation of in-process potentially unsatisfactory work, generation of CNCRs, welding inspection documentation 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
- Monthly Project Risk Mitigation, Safety and Security, MEP Progress and weekly CMB Meetings as scheduling constraints allow

### Document comment and review:

- Contractor's submittals, e.g., review of welding, concrete (including shotcrete) 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; the now few items requiring further action/investigation (missing or inconsistent data, compressive strength results that appear to have a very broad range of values, failure to adequately identify the location where tests/specimens are taken, non-identified low test results and such) are brought to the attention of the Contractor
- Numerous meetings associated with how TPC at UMS is documenting on-going work and acceptance of work (primarily as a result of the RE's processing of pay requests predicated upon TPC QC's SE CWI's Daily Inspection Reports (DIRs) have resulted in the continuing challenging task of the development of a welding inspection log that will eventually clearly indicated exactly what welds/connection have been included in the Monthly Pay Application as well as document-

## Quality Assurance - Continued

ing that all welds have been performed to and accepted as required by our Contract Documents and the Welding Code (D1.1). The aforementioned continues

- Also associated with UMS steel installation is the on-going issue of TPC QC providing complete CWI DIRs in a timely manner to CM13. Currently, TPC QC is in the process of improving upon the approximately now 1 week lag of CWI DIRs being posted to CM13
- Contractor Non Conformance Reports (CNCR) Status as indicated in the TPC QC CNCR Log:
  - ◆ 20 (+1 from last month) CNCRs are currently posted to the CNCR Log as INITIAL entries (C1300 is required to generate a CNCR within 24 hours of becoming aware of what appears to be non-conforming work).
  - ◆ 26 (+4 from last month) CNCRs are currently posted to the CNCR Log as DISPOSITIONED and are being reviewed by associated SFMTA RE to verify that the Contractor's proposed disposition is appropriate.)
  - ◆ 12 (+1 from last month) CNCRs are currently posted to the CNCR Log as DISPOSITIONED (NOT ACCEPTABLE) and have been returned to the Contractor because the RE's review of the Contractor's proposed disposition determined that the proposed disposition is not appropriate and must be revised).
  - ◆ 26 (+1 from last month) CNCRs are currently posted to the CNCR Log as APPROVED because the suggested REPAIR dispositions have been approved and the CNCRs will remain open until the approved REPAIR procedure is performed.
  - ◆ 163 (same as last month) CNCRs are currently posted to the CNCR Log as CLOSED.
  - ◆ 36 (+1 from last month) CNCRs are currently posted to the CNCR Log as VOIDED (subsequent evaluation of the INITIAL CNCRs determined that a CNCR is not warranted)
  - ◆ 283 (+6 from last month) CNCRs are currently posted to the CNCR Log

### QA Issues:

- None to report for this period

### QA Concerns:

- As is typical to similar Projects, work performed prior to receipt of approval status of required submittals/RIFs with/without knowledge of QC remains a potential item(s) of concern
- TPC's Record Document (as-built) effort refinement, to include CNCRs and a timely recording of Work performed that is different than what is required by the latest approved Conformed Design Drawings. Follow-up Quality Assurance Surveillance QAS076 was conducted; posted to CM13 and provided to TPC for their action. This follow-up Surveillance documents, as had previously been identified in QAS072 (provided to TPC for their corrective action - January of 2016) some lack of conformance to the requirements of the *Record Document Specification Section 01 78 39 (As-Builts)*
- Revision of and adherence to approved Required Excavation Support System (RESS) sheets at CTS, as expressed by the RE/DSP's Senior Engineers, at the daily SEM Meetings. Note that the required changes to and approval thereof of RESS sheets, prior to the start of effected Work, continues to be implemented in a most acceptable manner
- The effort associated with the UMS RE and RE Staff ensuring that only acceptable work is includ-

ed in the RE's approval of the Contractor's monthly invoice. The primary issue being TPC's reluctance to provide associated documentation of TPC's QC acceptance of the work included in each monthly payment invoice

### **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
- TPC's response to Quality Assurance Audit Report QAA 026, Implementation of TPC's Quality Control Program (QCP) was received and as resources allow, is currently under review with some additional documentation/information required prior to audit closeout; specifically associated with documentation related to mechanical couplers
- Conversation with SFDBI Electrical Inspection Department has begun to develop the understanding of their role for CSP

## Risk Management

Risk Mitigation Management Meeting No. 91 was held on February 2, 2017. The Risk Assessment Committee reviewed and discussed the Projects Construction Risks with ratings above 6; and Active Construction Risks rated below 6.

This month, two (2) new potential risk were introduced to the Committee. These risk will be further evaluated at next month meeting to determine the risk rating and strategies for mitigation.

Currently the Program is tracking thirty-three (33) remaining construction risks and one (1) remaining requirement risk on the Project Risk Register. With the use of an individual risk mitigation status sheet, monthly updates are provided by the Risk owner to demonstrate the assigned mitigation strategy is being implemented or suggest recommendations to alleviate issues caused by unforeseen conditions. The status of these risk items will continue to be closely monitored by the Program.

### Top Ten Risk

Risk #	Risk Description	Risk Owner	Risk Rating	Contract
232	Behind Schedule - Unable to Recover from Delay to 1300 Contract	ES	20	GEN
240	Unresolved Assignment of Schedule Delay Responsibility (may lead to increase cost)	ES	8	GEN
234	Sequential Excavation Method at CTS - Contractor's propose method will induce subsidence	DJ	7	CTS
233	Acceptance of Shotcrete Substitution - leads to final product being inferior in performance and availability of shotcrete needed for the permanent liner.	DJ	6	STA
52	Unacceptable settlement and impact on major utilities at CTS. (OLD SEWERS AND OTHERS WITHIN 20FT SPACE BETWEEN TOP OF CAVERN AND STREET LEVEL)	DJ	6	CTS
238	Quality Program is ineffective in processing the nonconformance items causing schedule impacts	ML	6	GEN
205	Prolong period of CMod's creates additional cost/causes bad blood between Resident Engineer and Contractor	ES	6	GEN
229	CN1300 System Acceptance Testing	AH	6	GEN
230	SFMTA Commissioning Coordination (inaccurate time for coordination or participation from Muni Ops)	AH	6	GEN
237	Non-Conforming work is not identified by TPC's Quality Control Program	ML	6	GEN

# 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 January, safety work on the 1300 contract progressed as follows:

During the month of January, TPC did not incur any first aid or lost time incidents.

## **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 the CTS station, the ventilation issues have finally been corrected. We will be watching the SEM work during the month.
2. At the UMS station, work continues underground with excavation. We will be watching the excavation closely during the coming month.
3. At the YBM station, invert pours have been completed inside of the station. We will now be watching the head house work.
4. At the STS station, work continues on the utility relocations. We will be closely watching the welding process being performed at the portal opening.



# Program Safety & Security - continued

## Project Safety Record - Contract 1300

### SAFETY GOALS

Through Month End -Feb 2017

<b>OSHA Recordable Accidents, &lt;3.4</b> <b>Lost Time Cases, &lt;1.6</b>
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JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	5	1	6	0.60
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	1	0	1	0.10
<b>Total Project Incidents</b>	<b>6</b>	<b>1</b>	<b>7</b>	<b>0.71</b>
Man Hours Worked Through M/E Feb 2017	836,568	1,146,998	<b>1,983,566</b>	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	0	0	0	0.00
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
<b>Total Project Incidents</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>
Man Hours Worked Through M/E Feb 2017	51,736	54,379	<b>106,116</b>	

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

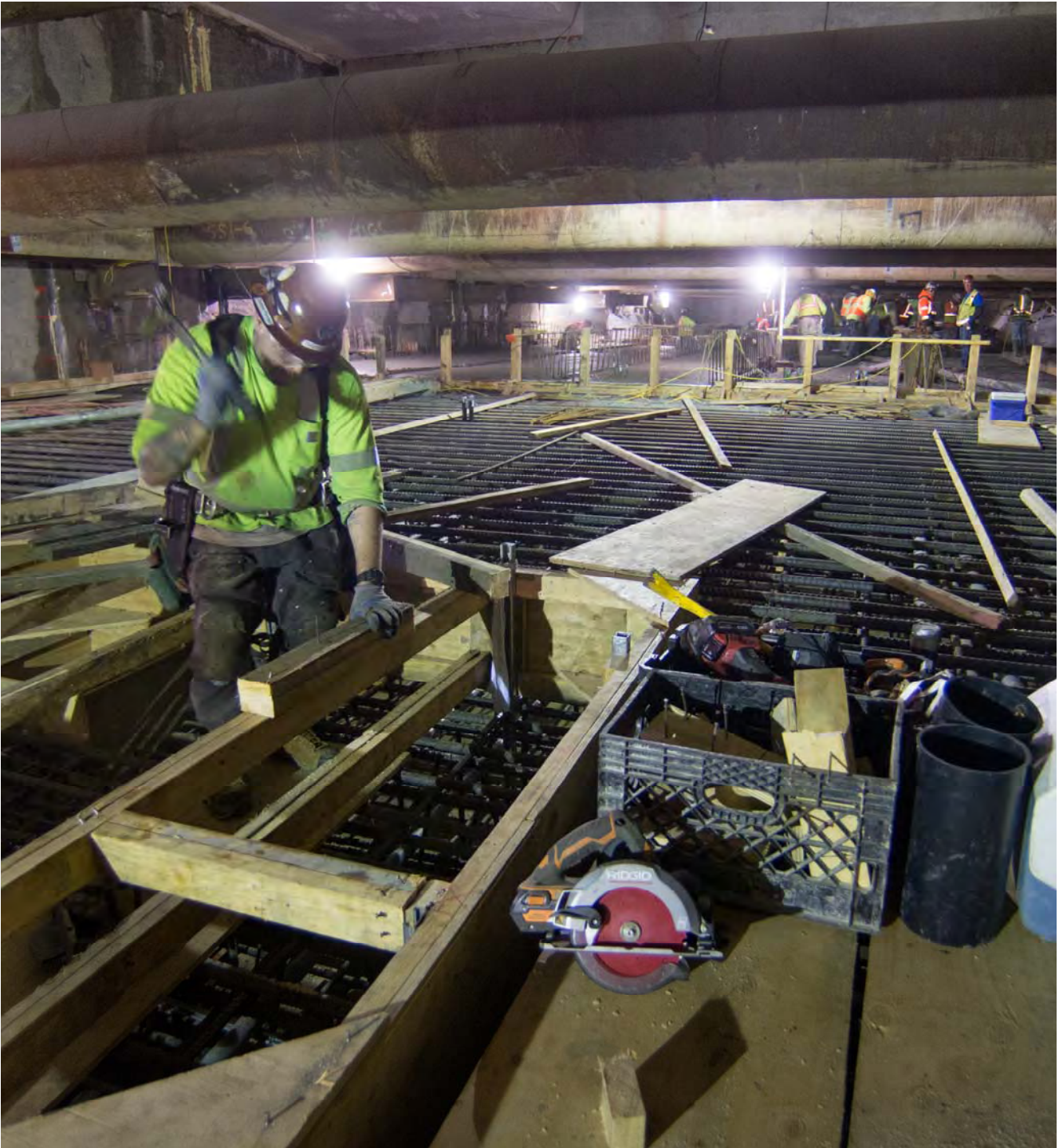
OSHA Recordable Accidents - 2008 Construction Industry Rate for Highway, Street, and Bridge Construction = 3.9

\*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.



***Concrete forms are constructed atop the massive rebar cage which will become the invert or floor slab of the station box.***

## Staffing

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

	Dec-2016		Jan-2017		Feb-2017	
	Planned	Actual	Planned	Actual	Planned	Actual
<b>Project Management</b>						
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	4.00	5.50	4.00	5.50	3.00
Finance	2.00	2.00	2.00	2.00	2.00	2.00
Project Controls	4.80	6.30	4.80	6.30	4.80	6.30
<b>Subtotal</b>	<b>22.10</b>	<b>22.00</b>	<b>22.10</b>	<b>22.00</b>	<b>22.10</b>	<b>21.00</b>
<b>Construction Management</b>						
CM - CN 1252	1.00	1.00	0.00	0.00	0.00	0.00
CM - CN 1300	29.98	30.98	29.98	30.98	29.98	30.98
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
<b>Subtotal</b>	<b>43.38</b>	<b>44.38</b>	<b>42.38</b>	<b>43.38</b>	<b>42.38</b>	<b>43.38</b>
<b>Start Up</b>						
Start Up / Safety & Security	3.00	2.10	3.00	2.10	2.00	2.10
<b>Subtotal</b>	<b>3.00</b>	<b>2.10</b>	<b>3.00</b>	<b>2.10</b>	<b>2.00</b>	<b>2.10</b>
<b>Total</b>	<b>68.48</b>	<b>68.48</b>	<b>67.48</b>	<b>67.48</b>	<b>66.48</b>	<b>66.48</b>

## 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 from 2017 - 2018 to supplement the fleet when the SFMTA's Third Street Phase 2 - Central Subway Project extension opens.

Production of the first 12 cars continues. The first car was delivered to SFMTA January 13, 2017, and the second was delivered February 28, 2017. Car 2001 dynamic testing, including clearance testing, has started on the mainline. Post-delivery static testing is underway for Car 2002. Final assembly and testing of Cars 2003 and 2004 are in process.



***A welder sitting atop a steel I-beam bracket cuts vertical brackets to precise measurements before walers are installed.***

# central **T** subway

## Current Construction Activity



**Chinatown (CTS)**



**Union Square/Market Street (UMS)**



**Yerba Buena/Moscone (YBM)**



**4th St. Surface Track, Systems (STS)**





*The entrance to the right side drift excavation of the south platform cavern, adjacent to the entrance archway to and from the station headhouse.*



*A bulldozer operator collects material to be lifted to the surface, under the main access shaft of the station headhouse.*



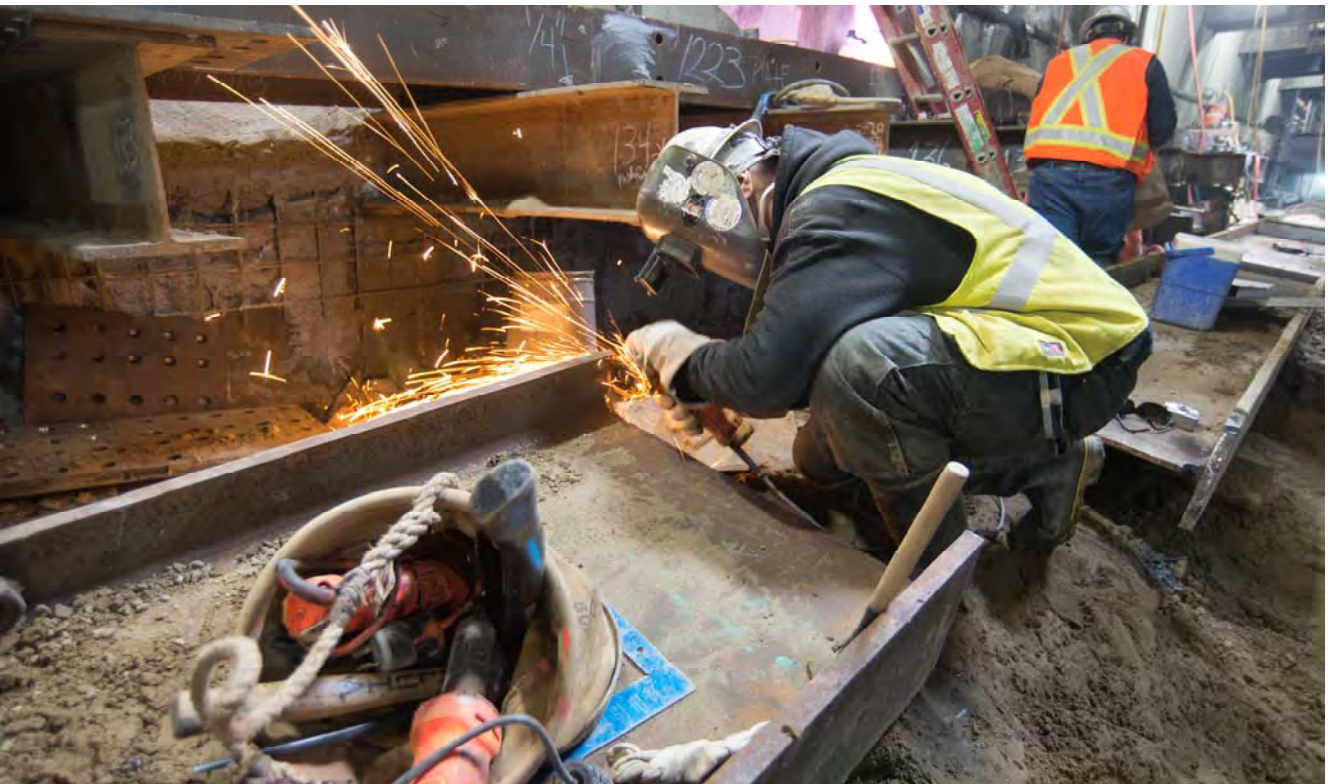
*A wheel grinds away at soil inside the left side drift of the north platform cavern.*



*One worker pauses as another checks connections on the arm of an excavator inside the station headhouse.*



*Work to remove excavated material inside the north concourse is done using a bobcat and steel bucket lifted through the access portal to Stockton.*



*A worker grinds the edges of a large steel beam to clean up the surface and round them off.*





*Workers detach a large steel beam used in temporary reinforcing from a crane hook, lowered in through the access shaft just north of O'Farrell.*



*A utility trench is being dug on the north side of stockton, inside the north station entrance's worksite.*



*Workers prepare to bring materials in the station box from the headhouse portal opening following a crane lift.*



*Workers smooth fresh concrete in the section section of the invert slab to be poured inside the station box.*



*A hose is extended from a concrete pump on the surface, so workers can bring wet concrete where it's needed during a pour of another section of the invert slab.*



*Concrete is poured into a utility trench mid-block between Howard and Folsom, on the west side of 4th, adjacent to the temporary station box ventilation structure.*



***New sections of concrete sewer pipe and other utilities are being installed at the intersection of 4th and Welsh.***



***The bucket of an excavator is carefully positioned to dump gravel into part of a utility trench at 4th and Welsh as part of backfilling operations.***

## STS—Continued



*Workers carefully excavate another section of utility trench further north toward Brannan, being careful not to disturb active gas and water lines.*



*Two lanes for two sets of tracks slowly are coming into shape in the tunnel portal, as work to construct the invert is underway.*

*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 \$1,036.05 million, a \$10.05 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,001.24 million) plus the utilities joint trench Form B Reimbursement payment (\$11.15 million), invoices currently being processed (\$19.60 million) and estimates of outstanding pay requests (\$4.06 million). This incurred amount equals 65.64% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,329.79 million. This represents 84% of the total project budget.

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.1	66	5/31/2015	\$ 2,121.00
CS155.1	67	6/30/2015	\$ 1,180.00
CS155.1	66&67	8/31/2015	\$ 3,005.81
CS155.1	68&69	10/31/2015	\$ 8,465.57
CS155.1*	70&71	12/31/2015	\$ 7,898.00
CS155.1*	72&73&74	3/31/2016	\$ 13,280.00
CS155.1*	75&76&77	6/30/2016	\$ 24,327.00
CS155.1*	78&79&80	9/30/2016	\$ 65,000.00
CS155.1*	81&82	11/30/2016	\$ 30,000.00
CS155.1*	83&84	1/31/2017	\$ 30,000.00
CS155.1*	85	2/28/2017	\$ 15,000.00
CS155.2	77	7/31/2016	\$ 353,575.05
CS155.2	78	8/31/2016	\$ 382,761.90
CS155.2	79	9/30/2016	\$ 524,314.56
CS155.2	80	10/31/2016	\$ 403,491.31
CS155.2	81	11/30/2016	\$ 370,495.64
CS155.2	82	12/31/2016	\$ 428,924.91
CS155.2	83	1/31/2017	\$ 370,766.70
CS155.2*	84	2/28/2017	\$ 370,766.70

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.3	75	6/30/2016	\$ 123,094.11
CS155.3	76	7/31/2016	\$ 78,529.03
CS155.3	77	8/31/2016	\$ 92,885.89
CS155.3	78	9/30/2016	\$ 115,190.05
CS155.3	79	10/31/2016	\$ 74,598.61
CS155.3	80	11/30/2016	\$ 107,644.79
CS155.3	81	12/31/2016	\$ 102,053.91
CS155.3*	82	1/31/2017	\$ 70,096.88
CS155.3*	83	2/28/2017	\$ 71,302.24
CN 1300	37	1/31/2017	\$ 7,663,326.00
CN 1300*	38	2/28/2017	\$ 8,766,099.17
CS149*	95	11/30/2016	\$ 500,000.00
CS149*	96	12/31/2016	\$ 500,000.00
CS149*	97	1/31/2017	\$ 500,000.00
CS149*	98	2/28/2017	\$ 500,000.00
CS156*	72	11/30/2016	\$ 55,462.56
CS156*	73	12/31/2016	\$ 64,250.01
CS156*	74	1/31/2017	\$ 40,466.35
CS156*	75	2/28/2017	\$ 39,626.86
other accruals*		2/28/2017	\$ 813,457.37

\* Estimated Amount

\$ 23,659,728.23

## 2. CONTINGENCY ALLOCATIONS AND USAGE

The current Total Project Contingency is **\$75.87 million**, which is a \$15.87 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 did not process any contract modifications. Contract 1300 Station processed six contract modifications in the amount of \$1,070,175. Refer to Report 7.5 for approved contract modifications and potential changes.

**3. BUDGET TRANSFERS**

In this reporting period, there were two Budget Transfers to set up CN1300 Job Readiness Program contract and release completed Real Estate Phase assigned contingency in result of increase program unallocated contingency by \$4,205,478, refer to Report 7.6 for details.

**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 \$11.15 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)	4,256,660	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)	572,014	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)	247,848	1.3.086.05.040.02 - YBM.1255: SITE UTILITIES, UTILITY RELOCA
<b>TOTAL</b>	<b>(12,227,954)</b>	<b>11,148,063</b>	

**5. EARNED VALUE (EV) ANALYSIS**

In February 2017 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA February Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

**Preliminary February Earned Value**

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,336,440,370
Earned Value:	\$1,028,349,131
Actual Cost:	\$1,036,046,099
Schedule Performance Index (SPI):	0.77
Cost Performance Index (CPI):	0.99
Percent Complete:	65.1%



**SFMTA, EV Chart**  
**Feb 2017 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	SPI
<b>CENTRAL SUBWAY PROJECT</b>										
	Preliminary Engineering Phase	06/03/03 A	10/25/21	65.1%	\$1,578,300,000.11	\$1,336,440,370.13	\$1,028,349,131.19	\$1,036,046,099.03	0.99	0.77
	Final Design	06/03/03 A	01/07/10 A	100%	\$46,542,061.34	\$46,542,061.02	\$46,542,061.02	\$46,542,060.88	1.00	1.00
	Light Rail Vehicles	01/08/10 A	06/17/13 A	100%	\$115,075,987.10	\$115,075,987.06	\$115,075,987.06	\$113,950,952.01	1.01	1.00
	Real Estate	04/15/13 A	03/22/19	8.25%	\$26,385,653.00	\$13,309,000.00	\$2,177,131.58	\$2,147,782.08	1.01	0.16
	Construction Phase	09/01/08 A	02/27/17	82.4%	\$32,140,417.71	\$36,142,634.71	\$30,822,332.40	\$30,625,616.53	1.01	0.85
	Construction Support and Costs	01/03/10 A	03/22/20	62%	\$1,349,275,478.96	\$1,125,370,697.34	\$833,731,619.13	\$842,779,897.53	0.99	0.74
	Construction Utility Contract #1 - MOS & Portal CN-1250	01/03/10 A	03/22/20	49.66%	\$200,922,846.96	\$110,821,294.67	\$89,644,307.33	\$114,532,158.90	0.87	0.80
	Construction Utility Contract #2 - JMS CN-1251	01/04/10 A	05/23/11 A	100%	\$11,968,150.00	\$11,968,150.00	\$11,968,150.00	\$11,968,150.00	1.00	1.00
	Construction Tunnels CN-1252	01/12/11 A	10/15/12 A	100%	\$20,794,582.00	\$20,794,582.00	\$20,794,582.00	\$20,794,582.00	1.00	1.00
	Unallocated Contingency	06/09/11 A	02/28/17	93.05%	\$235,913,500.00	\$251,068,967.23	\$233,608,864.28	\$233,793,899.81	1.00	0.93
	Project Management	06/03/13 A	08/06/19	54.32%	\$879,676,400.00	\$730,717,703.24	\$467,715,685.52	\$461,690,898.82	1.01	0.64
		05/09/19	10/21/19	0%	\$8,880,402.00	\$0.00	\$0.00	\$0.00	0.00	0.00
		10/21/19	10/25/21	0%	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00

The preliminary Contract 1300 cost shows Earned Value Cost \$6M 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))
<b>Prelim. Engineering</b>	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
<b>Final Design</b>	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
<b>Procurement</b>	Planned Delivery Date	Actual Delivery Date	Time Keeping; Vendor Accruals and Invoices
<b>Real Estate</b>	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor/ Material Accruals and Invoices
<b>Construction</b>	Schedule of Work	% Complete* x Budget at Completion (BAC)	Vendor Accruals and Invoices
<b>Sub-Total</b>	Performance Measurement Baseline (PMB)	Total Earned Value	Total Actual Cost
<b>Below the Line</b>	+ Contingency		
<b>Total</b>	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.

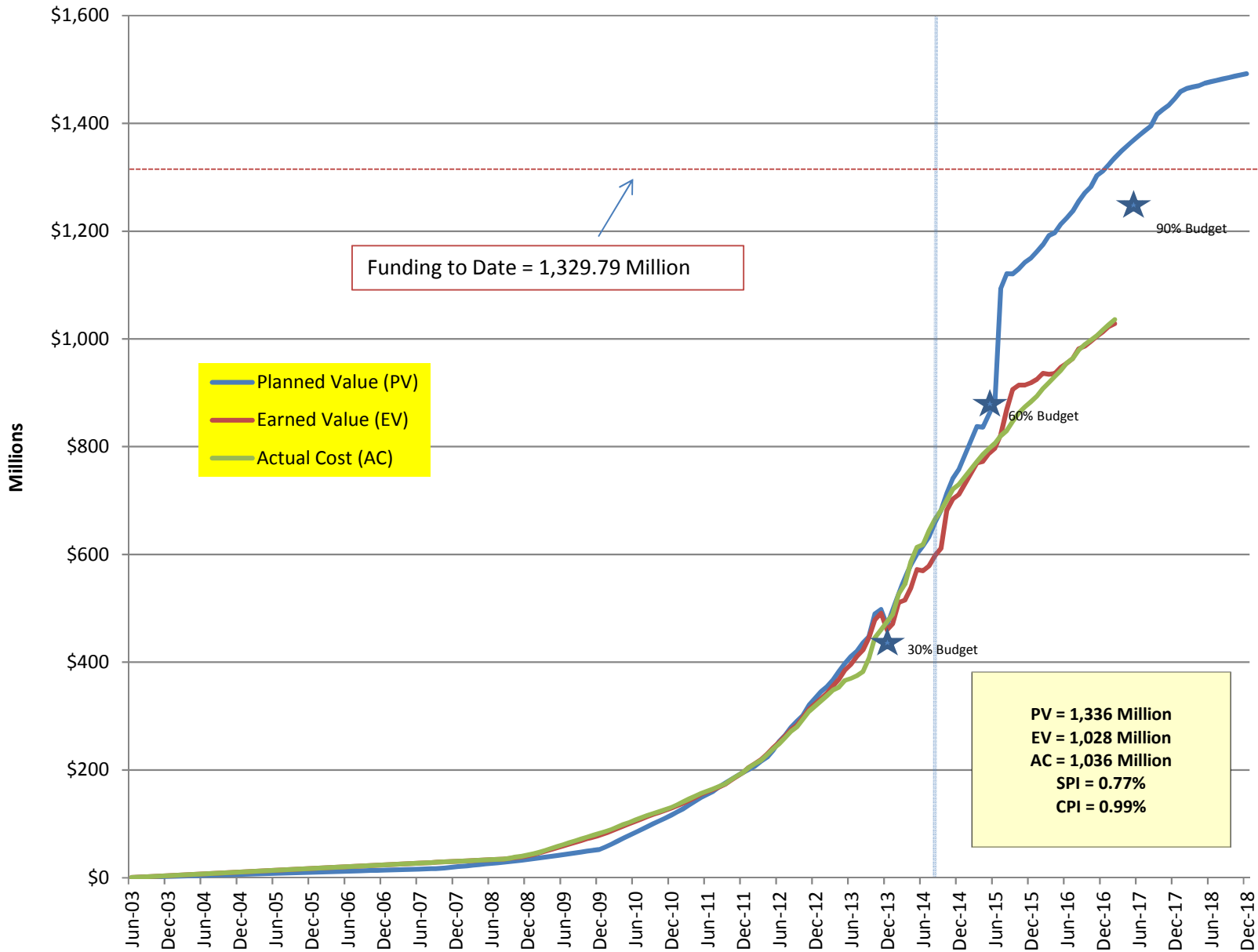
<b>Funding Available Table</b>		
	<b>Funding</b>	
	<b>Committed Funding Sources</b>	<b>Total Awarded Funds to Date</b>
<b>Federal</b>		
Sect. 5309-NS	\$942,200	\$769,196
CMAQ	\$41,025	\$41,025
<b>Federal Subtotal</b>	<b>\$983,225</b>	<b>\$810,221</b>
<b>State</b>		
TCRP	\$14,000	\$14,000
State RIP	\$88,000	\$12,498
Prop. 1B (I-Bond) PTIMSE	\$307,792	\$307,792
Prop. 1A (HSR-Bond)	\$61,308	\$61,308
<b>State Subtotal</b>	<b>\$471,100</b>	<b>\$395,598</b>
<b>Local</b>		
Prop. K	\$123,975	\$123,975
<b>Local Subtotal</b>	<b>\$123,975</b>	<b>\$123,975</b>
<b>CPT 544 Total</b>	<b>\$1,578,300</b>	<b>\$1,329,794</b>

**7. LIST OF COST REPORTS**

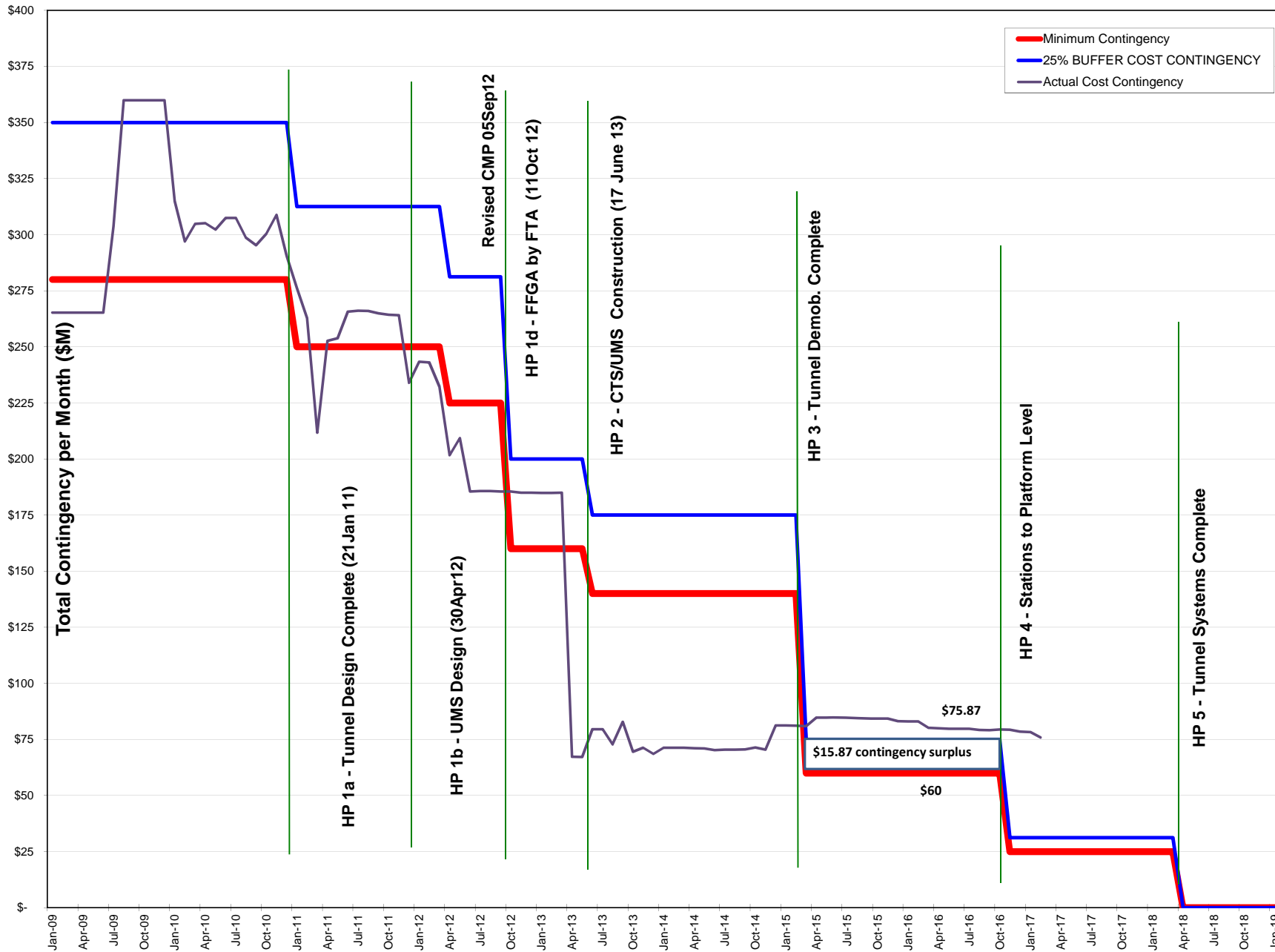
- 7.1 Program Project Budget
- 7.2 Earned Value Cash Flow
- 7.3 Contingency Drawdown Curve
- 7.4 Summary Contingency Management Trend Report
- 7.5 Detail Contingency Usage Report
- 7.6 Budget Revisions: Report sorted by Construction Packages & Soft Costs
- 7.7 Project Budget & Expenditure Report: Sorted 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

<b>A. Central Subway Project</b>						
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
<b>Total:</b>		<b>\$1,578,300,000</b>				
<b>B. Related SFMTA Capital Improvement Projects</b>						
Project	Name	Amount	PM	Funding Source	Reporting	
2	CPT690 TBM Retrieval Shaft Relocation	\$9,700,000	Funghi/Magyar	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. Magyar	I-Bond Interest	no	4
5	CPT705 MOH - Broadway/Sansome	\$8,000,000	K. Magyar	MTA Operating Funds	no	5
<b>Total:</b>		<b>\$27,047,750</b>				
<b>C. Central Subway Project - Project Offset Credits</b>						
	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	15
11	6/27/2016 DPW - MOU for Water Line above YBM Station	\$438,218	68W592	Contract 1300 CMod #20	yes	16
<b>Total:</b>		<b>\$24,674,586</b>				

# 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	[a + b]	d	[c + d]	f	g	h	i	j	j	k		
<b>SCC 10-50 CONSTRUCTION CONTRACT PACKAGES</b>														
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		17	
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		18	
1252	GUIDEWAY TUNNEL	233,584,015	1,494,770	235,078,785	170,654	235,249,439	23,658,464	(21,328,979)	2,329,485	834,715	664,061	235,913,500	664,061	19
1300	STATIONS	839,676,400	6,382,420	846,058,820	25,086,767	871,145,587	20,000,000	20,000,000	40,000,000	33,617,580	8,530,813	879,676,400	8,530,813	20
	1253 UNION SQUARE/MARKET ST STATION [JMS]	294,030,590	1,849,309	295,879,899	14,296,367	310,176,266	5,000,000	15,000,000	20,000,000	18,150,691	3,854,324	314,030,590	3,854,324	21
	1254 CHINA TOWN STATION [CTS]	247,567,810	2,859,843	250,427,653	3,693,500	254,121,153	5,000,000	5,000,000	10,000,000	7,140,157	3,446,657	257,567,810	3,446,657	21
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	(150,129)	157,938,871	3,357,828	161,296,699	5,000,000		5,000,000	5,150,129	1,792,301	163,089,000	1,792,301	
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	1,823,396	141,812,396	3,739,073	145,551,469	5,000,000		5,000,000	3,176,604	(562,469)	144,989,000	(562,469)	
OTHER		32,293,501		32,293,501	0	32,293,501	1,160,000		1,160,000	1,160,000	1,160,000	33,453,501	1,160,000	
SCC 10 - 50 Construction Sub-total		1,131,902,776	14,533,432	1,146,436,208	25,257,421	1,171,693,629	44,818,464	(1,328,979)	43,489,485	35,612,295	10,354,874	1,182,048,503	10,354,874	
<b>SCC 60-80 SOFT COSTS PACKAGES</b>														
60	ROW, LAND, EXISTING IMPROVEMENTS	36,511,799	(4,265,478)	32,246,321		32,246,321	1,000,000	(1,000,000)	0	0	0	32,246,321	0	22
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	23
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	9,799,712	31,297,732	31,297,732	31,297,732	387,371,094	31,297,732	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	5,034,457	8,880,402	8,880,402	8,880,402	8,880,402	8,880,402	24
<b>TOTAL</b>		<b>1,503,041,328</b>	<b>(531,758)</b>	<b>1,502,509,570</b>	<b>25,257,421</b>	<b>1,527,766,991</b>	<b>70,162,429</b>	<b>13,505,190</b>	<b>83,667,619</b>	<b>75,790,429</b>	<b>50,533,008</b>	<b>1,578,299,999</b>	<b>50,533,008</b>	
											<b>Total Project Budget</b>	<b>1,578,300,000</b>	25	
											<b>Estimate At Completion</b>	<b>1,527,766,991</b>	26	
											<b>Variance</b>	<b>50,533,008</b>	27	

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 \$235,078,784.60  
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
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

Connecting people. Connecting communities.

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
56	Deleted Water Utility Replacement/Water, Sewer, MRY and AWSS Design Changes	PCC 24, 28	(\$15,259.00)	\$235,398,442.67
57	YBM Concrete Overpour and Jet Grout at Headwalls	COR 072	(\$84,509.00)	\$235,313,933.67
58	Credit - Delete AWSS Material Supply		(\$201,288.32)	\$235,112,645.35
59	Credit - 1 No. AMTS Unit		(\$33,860.75)	\$235,078,784.60
<b>Sub Total:</b>			<b>\$1,494,769.60</b>	

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

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	\$839,676,400				\$846,058,820
Substantial Completion	2/10/2018				2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES
<b>Potential Changes</b>	<b>14,296,367</b>	<b>3,693,500</b>	<b>3,357,828</b>	<b>3,739,073</b>	<b>28</b>
<b>Change Order - Pending</b>					
CMod #64 STS DSC CORs and SFWD				31,217	
CTS COR 372 DSC Potholing @ N Acces		9,846			
CTS PCC 43 Removal of Bus Bulb		15,180			
CTS-Plaza Surface Level Struct Mods		(10,337)			
STS COR #296 Mult E Util Confl AWSS				47,052	
STS COR 523 AV & GV on 8" WD Main				1,236	
STS COR 601 Conc Enc in cn. w W lin				2,730	
STS COR 641 SW delay due to conf ut				9,114	
STS COR 662 Foo cnf with catch bsn				1,254	
STS COR 823 Unkn Brck Ctch Basin				1,718	
UMS FACO #29 BART Hazmat Abatement	11,856				
UMS FACO #53 NDSC Transite Pipe	61,055				
YBM COR 115 C1250 unencased JT			9,843		
YBM COR 44 Buried concrete wall			29,801		
YBM COR 45 Abandoned sewer not slur			7,719		
YBM COR 49 Buried timber piles			78,399		
YBM COR 50 Contam soil along H Line			39,560		
<b>Change Order Request (COR)</b>					
CTS COR 1011 Platform Cavern Void		350,000			
CTS COR 1014 Invt Slb Crb or Trough		5,000			
CTS COR 1016 Locate Water Leak		936			
CTS COR 1018 Gas Line Rupture		8,386			
CTS COR 255 Additional Instruments		429,777			
CTS COR 445 3x5 w/ HDPE/PVC Inside		10,001			
CTS COR 526 Connection b/t Wall & D		25,001			
CTS COR 527 Connection b/t Wall/Dec		40,939			
CTS COR 529 Rock Mass at Elev 37'		25,001			
CTS COR 568 CMOD 019 Reservations		35,001			
CTS COR 574 Escalator supports		1			
CTS COR 583 Elev 1-4 SFFD monitor		53,619			
CTS COR 628 Add Beams and Embeds		8,331			
CTS COR 659 Add Grts at Sta Ag glas		1,537			
CTS COR 679 GI Cutos & Add Sp hds		23,450			
CTS COR 681 Crss Cut Cvrn SEM Excvn		60,001			
CTS COR 686 Es & Gls Enc Sif Clning		6,716			
CTS COR 722 Elv 1-4 OH Str Host Bms		23,823			
CTS COR 723 Strc Gls Asse Add Desig		0			
CTS COR 780 Aded Frit on Roof Panls		19,229			
CTS COR 824 Multiple Setups, Standb		1,387			
CTS COR 886 Extrm Hrd Grnd Condition		45,001			
CTS COR 917 Spriklr Hnging Method		50,001			
CTS COR 925 Cont Metal Ring		10,001			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018				\$846,058,820 2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES
STS- AT&T Conduit Changes				22,290	
STS COR 014 Addtl MNHS for 78" SW				20,217	
STS COR 1001 Deficient Comcast Cond				5,000	
STS COR 1012 ATCS Work at SFMTA				10,001	
STS COR 1017 Increase Neoprn Pad le				5,000	
STS COR 1022 2" Traffic Sgnl Condui				30,000	
STS COR 1030 1" Water line in Confl				2,500	
STS COR 1032 Lenox-TMC Design Cnflc				10,001	
STS COR 1034 E live DT/MRY Ductbank				50,000	
STS COR 1038 E Unkn 18" Steel Pipe				5,000	
STS COR 220 DSC Relocate MRY DB&Vlt				0	
STS COR 297 TC for Track Work at 4t				150,001	
STS COR 402 3x5 SW Confl w/ VCP SW				10,001	
STS COR 404 Contam Soil in MRY DB				12,303	
STS COR 406 Addtl TC at 4th/King				675,001	
STS COR 411 Delay 8" WL miss serv				7,501	
STS COR 455 Conflicts w/ 8" WD Line				10,001	
STS COR 456 Conflicts w/ MRY Poles				20,001	
STS COR 461 WD Confl w/ Mult Utilit				100,001	
STS COR 475 Removal of Fiber Optic				1,101	
STS COR 476 Conc DB Conf w/ FH				25,001	
STS COR 484 New WD & AWSS Alignment				44,350	
STS COR 488 Tunnel Track Alignment				50,001	
STS COR 491 Util in conf w/ 10" VCP				10,001	
STS COR 500 Tunnel Monuments				5,001	
STS COR 531 ATT Confl w/ 36" FM				25,001	
STS COR 559 Temporary Trolley Pole				15,001	
STS COR 604 Duct Bank in conf. w se				4,271	
STS COR 665 Ov prd Lit Pl fdn in				901	
STS COR 675 Dct bnk & 3" Gas Line				10,001	
STS COR 682 Shtdown #1 Rail Mods				9,432	
STS COR 683 Gas Ln & unkn Duct Bank				5,001	
STS COR 688 Ukn Piers /conct N 12"				5,001	
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 700 RFI-00795.1				142,836	
STS COR 702 Brk Cs Bsn cnct w N Cuv				5,001	
STS COR 737 Dct Bnk infc w AT&T Rem				5,001	
STS COR 766 Wood Pir inCon w N Pils				25,001	
STS COR 788 Add Basin & Culvert				28,843	
STS COR 791 CP5 Drainage Pipe BckFl				3,871	
STS COR 796 Woodn Piers Woodn Beams				10,001	
STS COR 821 Mounting Detail for Axl				76,027	
STS COR 826 DSC Swr Cap & I Beams				10,001	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018				\$846,058,820 2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 833 Unknown Conc Blanket				5,001	
STS COR 844 4th & King Trcwrk Shtdn				705	
STS COR 846 Util Conf w/ 78" SW Crw				15,001	
STS COR 849 brk Pen incof w 78" Swr				2,501	
STS COR 855 Flooded Subgrade				20,001	
STS COR 865 Sd Swr Mnhl & 15" Sw Ln				15,001	
STS COR 873 Ex L3 DcBnk Incn Pv Ren				2,400,001	
STS COR 874 Inter Loc of MRY Dc Bk				20,001	
STS COR 875 Existing Railroad Ties				2,704	
STS COR 890 Ex Pll Box Incon Crb Rm				3,001	
STS COR 894 Ins I Bm for 3648 Shor				1,246	
STS COR 900 Ex PG&E Vlt @ Wrog Grde				30,001	
STS COR 909 PGE Gas Interruption				50,001	
STS COR 911 E SW Conf w 48" SW				15,001	
STS COR 919 Add Feather to Hg Csts				10,001	
STS COR 920 Hoist Beam Supports CP5				(1,932)	
STS COR 921 Exi Cond Clu incon/ Swr				6,001	
STS COR 924 Ovpod Con inconf Catbsn				2,869	
STS COR 926 E TS conduits conf w pa				10,001	
STS COR 927 E Gas Conf w N CB				3,001	
STS COR 929 MH Conf w SW Grout				5,001	
STS COR 930 SW Cracks Conf w Grout				5,001	
STS COR 931 Tree Removal				2,998	
STS COR 934 Revised Curb/Gutter				10,001	
STS COR 937 ATCS Workstation Design				10,001	
STS COR 941 E Ulti Conf w 78" SW Ca				10,001	
STS COR 942 Radio Sys Prelim Design				50,001	
STS COR 948 Sidewalk Elev Change				10,001	
STS COR 950 Gas Conf w N 8" AWSS				5,001	
STS COR 958 Trk Pave Change				50,001	
STS COR 962 4th/King Incomp Hrdwr				34,448	
STS COR 967 Lwr Lvl Can Per SFMTA				270	
STS COR 969 Mv Stl Plts L Frm Twnsd				389	
STS COR 970 16" WL Installation				50,001	
STS COR 983 Ex Rbr in Cnflt w/ WL				2,500	
STS COR 995 E 3" Asbs Conduit Cnflt				10,000	
STS COR 999 E 18" Steel Pipe Confli				10,000	
UMS COR 1010 Emerg Phn Dsgn Conflic	5,000				
UMS COR 1015 Drain Line at Ellis	10,000				
UMS COR 1023 CIP Wall Reinforcing	10,001				
UMS COR 1029 Beam 95 Conn Design	10,001				
UMS COR 1036 N Concrs Drainage Conn	10,001				
UMS COR 1043 Info Kiosk Design Conf	10,001				
UMS COR 1048 N Cncrs Drainage Conn	10,001				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018					\$846,058,820 2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES	
UMS COR 1054 Instl SD Pipe at N Cnc	10,001					
UMS COR 110 DSC Obst. at JG Columns	2,062,420					
UMS COR 336 Vault on Grid Line 9	1,312					
UMS COR 403 Waterproofing at BART	63,285					
UMS COR 425 N Cncrs A-Pl Strup Cnfg	3,911					
UMS COR 499 48-inch Steel Casing	42,934					
UMS COR 660 Added Grommets at Booth	1,134					
UMS COR 687 Trant Pipe at St 134+00	497					
UMS COR 725 Seis Qu Cer for St Glze	10,738					
UMS COR 747 NDSC Unidnified Con Pile	50,001					
UMS COR 798 Comp Grout Damage	50,001					
UMS COR 810 Unkn Bem @ M Macys Wall	10,001					
UMS COR 817 Odor at N. Concourse	100,000					
UMS COR 845 Unidntfid Conc Obstrctn	10,001					
UMS COR 854 Unfid Mtl Obst @ Cor 25	10,001					
UMS COR 883 Ventilation System FCP	0					
UMS COR 892 Escalator Raceways	492,065					
UMS COR 913 Machine Room Size	0					
UMS COR 914 Glass Floor Connection	0					
UMS COR 933 CMod for Option 2	0					
UMS COR 959 Elev 3 & 4 Load	0					
UMS E Vault Conflicting Pile Line	14,576					
UMS-FACO #30 NDSC Inadequate CDF	157,462					
UMS-FACO #50 UMS Parking Garage	10,659					
USG COR 1020 Metal Deck	10,000					
USG COR 1028 CMU Wall Concrete Slab	5,000					
USG COR 293 Water on N.Concourse	1,832					
USG COR 779 E WI Bm Reinf Chng	6,651					
USG COR 808 Dimensions at Escalator	0					
USG COR 998 Class 1 Hazardous Soil	200,000					
YBM COR 1000 Added Raceway Instal			10,000			
YBM COR 1004 Fire Protection Submit			5,000			
YBM COR 1027 Additional Mezz Lighti			5,001			
YBM COR 1033 HVAC & Mech Conflicts			10,001			
YBM COR 825 Tunnel Segm Steel Fibers			153,380			
YBM COR 836 Slurry Wall Reinforcing			0			
YBM COR 848 Chip Invert Headwall			30,000			
YBM COR 905 Invert Drawings			0			
YBM COR 915 Escala. 1-4 HVAC changes			0			
YBM COR 949 Escalator Raceways			0			
YBM COR 960 N & S Head WI Rbr Chng			64,027			
YBM COR 982 Fir Alarm Submtl Rej			5,000			
<b>Forecasted - Trends Negotiation</b>	<b>4,634,169</b>	<b>1,707,683</b>	<b>588,755</b>	<b>253,808</b>		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018					\$846,058,820 2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES	
Change of date range to receive art	(10,001)					
CTS - PCC #036 (CMU Wall Bracing)		19,552				
CTS COR 582 Monitor at Agent Booth		95,958				
CTS COR 625 Added Cane Detc Rail		1,889				
CTS COR 626 Ad HSS & Plt @ H Beam		5,130				
CTS COR 627 Add HSS Col @ Tickt Mac		3,404				
CTS COR 643 Cncrt at S Pltfm Excvtm		10,000				
CTS COR 695 Mod to Grondng System		10,001				
CTS COR 706 Glas Canpy Trench Drain		10,001				
CTS COR 866 ATCS/Thals Sngl Pwr Sor		10,001				
CTS COR 899 Add Soil Samp & Testing		10,001				
CTS COR 923 Esc Equip Room Size		10,001				
CTS COR 947 Shtcrt Filr Line @ slry		10,001				
CTS COR 957 Egress Shft Opening		10,001				
CTS COR 961 Relocate VCP due to del		10,001				
CTS COR 966 5' TBM Segmt wdth		50,001				
CTS Delete PGE Work at Vault 732		(35,036)				
CTS PCC 001 Delete DB on Stockton		(84,018)				
CTS PCC#25 Stairs 5, 6, 7 Mods		30,387				
CTS-COR#201 Swr Line & Station Roof		46,046				
CTS-Delete Tree Planting		(3,967)				
CTS-FACO#39- Soil Testing cmplly OAB		5,478				
CTS-PCC40 Plaza Surface Slab Pntrtn		5,525				
STS - Deletion of ARS (Revision 1)				(4,689,000)		
STS - OCS Pole Changes				12,706		
STS - PCC#28 Portal Dowels				(1,753)		
STS Comm and Elec Cabinets Relocati				67,221		
STS COR #229 Multi E Util Conf w N				8,284		
STS COR #241 2-In WD Line w Offset				5,386		
STS COR #88 Modify CBs and Culverts				4,395		
STS COR #92 PG&E Vault Conf 12 AWSS				78,074		
STS COR 067 FACO #41 GW Lead Filter				22,695		
STS COR 074 AWSS Offset/Sewer Demo				108,384		
STS COR 089 Extra Sewer Work				29,468		
STS COR 090 Subsurface Obstrc				20,452		
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		
STS COR 100 DSC Zayo PVC Conf w SW				4,082		
STS COR 101 Cleaning for non-78" SW				58,906		
STS COR 164 DSC 8" AWSS Lat Conf 78				4,077		
STS COR 198 NDSC Out of Spec Cover				8,123		
STS COR 210 WD pit size increase				21,988		
STS COR 211 SW conf AWSS 4th/Freelo				4,561		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018				\$846,058,820 2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 254 DSC 4" Confl w 36" FM				25,197	
STS COR 258 WD/PVC Conflict				87,511	
STS COR 290 E CB PVC Confl WD AWSS				3,329	
STS COR 367 DSC Conf w/ CP and FM				36,256	
STS COR 371 Conflicts w/ 12" AWSS				8,402	
STS COR 387 Oil Line Confl SW MH				6,124	
STS COR 392 Util at 4th-Town SW MH				13,246	
STS COR 401 AWSS Layout 4th/King				31,866	
STS COR 409 Conc in confl w/ (N) FM				3,466	
STS COR 416 Conc DB/wall/lines conf				81,783	
STS COR 443 AWSS Procurement Delay				5,777	
STS COR 447 Added Exc for SFWD POC				29,423	
STS COR 454 Addtl Conflicts w/ 8" W				91,410	
STS COR 469 SW Cleaning 4th/King				1,836	
STS COR 480 Conc confl w (N) FM				886	
STS COR 520 Lat Conf AWSS				3,867	
STS COR 522 Thickened Str. Stan				7,046	
STS COR 530 Tunnel Track Machine				20,064	
STS COR 533 Conc wall confl util				39,170	
STS COR 536 Util in Conf w 36" FM				66,287	
STS COR 558 CB in conf w AWSS				862	
STS COR 567 Loct of Plinth Breaks				10,000	
STS COR 584 Debris confl w/ culvert				6,275	
STS COR 615 Sump Pump Pit Cover				1,064	
STS COR 621 Additional WD Exc. per				26,293	
STS COR 623 Unkn Con Structure				2,966	
STS COR 632 Omit Unist & add Anr Bt				2,180	
STS COR 633 Ligting Arrrests Signal				10,001	
STS COR 634 Forc Mn Dsn PCO 329				132,332	
STS COR 639 Util conf w/ 12" AWSS				27,197	
STS COR 644 Wod Pier Cnf w AWSS				13,258	
STS COR 650 Asbestos conf w/ ATT DB				4,518	
STS COR 655 Unkn Cnc St / cn w cbsn				1,224	
STS COR 657 Tunnel Ca Bsn Dsn Chang				20,001	
STS COR 664 Threaded Dowels				10,001	
STS COR 666 Ukn Con Vlt/con N36"				10,118	
STS COR 677 Fir Supsion stnpip Mat				3,895	
STS COR 703 Tunl Wakway Expn jnts				386	
STS COR 736 Addition Rein Handholes				6,340	
STS COR 751 Db in coflct 36" FM& MH				2,311	
STS COR 755 AWSS Material Delay				1,495	
STS COR 772 Reconn Unkn Prop Drn Ln				2,200	
STS COR 785 Unkn Con STin con W Swr				8,344	
STS COR 787 AT&T Dct Bnk InCw N 36"				35,001	



Contract Modification/Trend Log - Contract 1300 Stations

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	UMS	CTS	YBM	STS		
STS COR 803 SFMTA External IT Feeds				10,001		
STS COR 807 Tunnel Invret Slab				13,198		
STS COR 813 Permissive Signal				10,001		
STS COR 829 Unkn Concrete Blanket				3,613		
STS COR 834 Thales ATCS TC Pwr Dist				10,001		
STS COR 852 Caltrans Encrocmnt Prmt				10,001		
STS COR 862 Tactile Warn Surf				10,001		
STS COR 880 Ex Dbk in con Ins SC				10,001		
STS COR 891 Phase 2 Pavment Renvtin				10,001		
STS COR 893 Abnd Wtr Ser @St 175+21				682		
STS COR 918 Accel Prem Time for Swr				13,199		
STS COR 965 DB conf w 8" WL and Sle				40,000		
STS COR 971 All Stns Rej of CCTV Sy				5,001		
STS COR 974 Fldng frm Brkn Wtr Mn				10,001		
STS COR 976 Ex Unkwn Mnhl & Dct Bnk				10,001		
STS COR 979 (N) CB in Conf w/ (E) V				10,001		
STS COR 98 DSC MRY MH Conf w N CB				10,001		
STS COR 981 Ex 12" WM incorr				50,000		
STS COR 987 Unkn Utl confit w/ (N)				40,000		
STS COR 996 Prtl WL Cnflct w/ slab				25,000		
STS Existing Fuel & Transite in MRY				14,101		
STS PCC 052 Deletion of ARS Pt II				(177,246)		
STS PCC 063 Del ATT/TSIC/PGE on 4th				(36,495)		
STS PCC 066 Add CS ATCS Emer Stop B				205,873		
STS PCC 084 Removal of ATT DB & Vau				112,619		
STS PCC 096 4th Street SW Slip Lini				215,751		
STS PCC 117 PDS Signs Moun Brackct				50,034		
STS PCC 151 LED Street Lamps				104,516		
STS Track Switch Machine Change				391,909		
STS Traffic Signal and SL Changes				298,307		
STS-FACO #48 Work Related St Lght				2,051		
UMS - DCW and Hose Bibbs	29,159					
UMS - N. Entrance Art Glass and Gla	0					
UMS - PCC #039 (12" WL Relocate)	335,468					
UMS - PCC #29 (Concrete Wale Suppt)	41,424					
UMS - PCC 027 (Escalator Barricade)	(9,227)					
UMS COR 191 DSC E PG&E Vault 582	1,114					
UMS COR 300 14 HDPE at Geary	(9,516)					
UMS COR 301 Concr. Overpour and PVC	14,792					
UMS COR 313 E MCI Valt Con w Ple In	5,652					
UMS COR 389 4" Steel line asbestos	20,001					
UMS COR 391 AT&T Duct Bank Conflict	25,001					
UMS COR 417 Redesigned Manhole	14,385					
UMS COR 466 Asbestos Conduit	21,344					

Contract Modification/Trend Log - Contract 1300 Stations

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	UMS	CTS	YBM	STS	COST REPORT NOTES	
UMS COR 493 Steel Shape Inside Pile	25,001					
UMS COR 510 6" VCP Side Sewer	19,696					
UMS COR 565 GEN Emer Vent Design	500,001					
UMS COR 579 Elevators 1-4 SFFD	41,648					
UMS COR 636 Bi-Fold Door Tube Steel	24,911					
UMS COR 661 Card Acc & Dr alarm Pnts	10,001					
UMS COR 707 Prc /Ins Gas by PG& E	(9,680)					
UMS COR 726 Beam 213 Stair Opening	10,001					
UMS COR 743 Ovrhd Bi-Fold Door SDs	10,001					
UMS COR 770 Fiil Void Sp with CDF	1,943					
UMS COR 781 Utilty Trench Supp Slab	20,001					
UMS COR 789 Strs 3&4 SOE Shotcrete	10,001					
UMS COR 858 Esc Elc Pwr Cont Docms	20,840					
UMS COR 861 Fire Protec Deulge Vlve	10,001					
UMS COR 885 Light Pole Foundation	10,001					
UMS COR 902 CMU Wall Dril Epx Clarf	10,001					
UMS FACO #31 NDSC Incomplete PGE DB	165,944					
UMS FACO #34 Becho Obstruct J Piles	7,435					
UMS FACO #38 Pile H3 & H4 Piles	15,438					
UMS FACO #45 Blocked Stubs PG&E	7,500					
UMS FACO #52 NDSC Transite Pipe	7,275					
UMS Geoprobe Credit	(15,600)					
UMS MRY Duct Bank-East Conflict	41,038					
UMS PCC 103 PG&E S.light at Maiden	6,831					
UMS PCC 150 S. HW Wale Connection	26,640					
UMS PCC 195 Reinf. of Wall to Slab	3,947					
UMS PCC 86 Headwall Pile Conflict	8,982					
UMS Powell St. Elevator Site Hazmat	16,028					
UMS Sewer Line Conflict	744,465					
UMS Transfer Instru BART Facilities	45,280					
UMS-FACO #19 Street Light at Stock.	2,361					
UMS-FACO #32 8" Waterline Conf NDSC	75,291					
UMS-Relocation of Traffic Signal Co	32,275					
USG COR 227 Plaza Lvl. Sequence	200,001					
USG COR 259 Lead Paint on Columns	87,455					
USG COR 261 8" Wall at Grid 11B	5,632					
USG COR 274 Shear Wall at Grid 10	68,945					
USG COR 365 Elevator Hoist Beam	19,692					
USG COR 383 Slab Conn. at GL C&D	15,000					
USG COR 415 Glass Roof Steel Elev.	10,001					
USG COR 509 Soil Nail Shotcrete Wal	896,524					
USG COR 652 Elev. 1 & 2 Cond. Shaft	19,895					
USG COR 805 Fotngs 16A As Built Dim	10,001					
USG COR 868 Drainge Pipe & 6" Slab	10,001					

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018					\$846,058,820 2/10/2018
	UMS	CTS	YBM	STS	COST REPORT NOTES	
USG COR 882 HSS Beam Termination	10,001					
USG COR 975 N Cncrs Invert Slab Slip	5,001					
USG Door Openings in Shear Walls	41,774					
USG Hydrant Relocation on Geary St.	65,163					
USG PCC 105 Adj to Row X and Row Y	31,108					
USG PCC 107 Light Pole Footings	7,595					
USG PCC 110 Term of Built Up Colus	79,811					
USG PCC 124 Irrigation Main	20,124					
USG PCC 127 Footing Elev Suvey Diff	13,771					
USG PCC 128 Dowls of Rbar Conn Dtls	170,189					
USG PCC 134 Temp South Wall Support	90,268					
USG PCC 141 Wtrproof & Drn at P	292,754					
USG PCC 174 Fan Trench Strut Clar.	2,430					
USG PCC 186 Bollard on Ramps	28,992					
USG PCC 31 HVAC Trench Mod.	235,133					
USG PCC 68 Ramp Barriers Handrail	33,214					
USG PCC 73 Acceleration of Work	102,203					
USG PCC 87 Tiebacks, L2, GL 14-15	219,335					
USG Removal of Existing Column	4,116					
YBM COR 063 Buried objects in P-86			12,348			
YBM COR 248 Transite pipe Folsom			1,501			
YBM COR 249 Utility conflicts Folso			93,425			
YBM COR 385 PG&E Damage to Work			26,285			
YBM COR 390 Chip Mezzanine Headwall			55,602			
YBM COR 485 Chip Concourse Headwall			30,001			
YBM COR 564 Concrete Encased PG&E			15,000			
YBM COR 64 Buried sheet pile P-7			409			
YBM COR 705 Del bems & Embds/Ven sh			(17,893)			
YBM COR 711 Conduit for AC Swichgea			23,205			
YBM COR 732 Rstroom Fclty Wall Revs			10,001			
YBM COR 838 Abrasive Stair Nosing			19,807			
YBM COR 841 Design Chng Stair 1 run			7,638			
YBM COR 86 AT&T Side Sewer Conflict			133,997			
YBM COR 939 Broken Water Dept. Line			25,000			
YBM COR 988 FHC & Phn @ Str 6 Cnfft			5,000			
YBM PCC 061 Escalator Pit Provision			46,809			
YBM PCC 131 Add Rec Room CN316			2,535			
YBM PCC 138 Add Rec Room SU310			1,535			
YBM PCC 21 Delete Instrument & Monit			(50,195)			
YBM PCC 41 Install #7 Box Clementin			38,501			
YBM PCC 69 SW Bulb-out at Stair#1			40,001			
YBM PCC 76 AWSS, SSFM, WM Design			627,854			
YBM PCC 79 Install 12in WM to Howar			256,730			
YBM PCC 82 Delete Scope Due to Hote			(39,025)			

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	UMS	CTS	YBM	STS	COST REPORT NOTES
YBM PCC 85 Ticketing Hall Changes			57,586		
YBM PCC 99 Art Glass Changes			34,040		
<b>Proposed Contract Change (PCC)</b>					
CTS PCC 067 Wall Shift North Access		(1,097)			
CTS PCC 083 Switchgear Breakers		30,001			
CTS PCC 104 Water Leak NE HH		20,001			
CTS PCC 119 Platform Lvl Wall Art In		(10,001)			
CTS PCC 120 Prov Cond-Lft-net System		0			
CTS PCC 135 Esc 5/6 Addl Supp Locs		10,001			
CTS PCC 167 Drn for Gls Canopy on E		5,001			
CTS PCC 169 JT, SW and PG&E Changes		10,001			
CTS PCC 170 Add 2 Gate Vlvs Stockton		31,001			
CTS PCC 177 Add Esc 5 & 6 Supp		1			
CTS PCC 178 Add Beams and Embeds		1			
CTS PCC 179 Added Gromets		1			
CTS PCC 180 Extra WD Work for 12" L		1			
CTS PCC 204 Shrnk Ft Prnt Emer Shft		0			
CTS PCC 207 SEM Sequencing Changes		0			
CTS PCC 98 Slurry Wall Wr Proofing		20,001			
GEN PCC 183 Electric Power Elevators			150,000		
GEN PCC 189 Anti-Graffiti Film			200,001		
GEN PCC 33R End Platform Gate Revisi			57,403		
STS PCC 095 Frame/Grate Change				(50,001)	
STS PCC 114 Rev1 Stdpipe & Cond				30,001	
STS PCC 121 PG&E Pnts Streetlightig				242,370	
STS PCC 160 ATCS Change Reverse Run				400,001	
STS PCC 161 Delete Plat ESPBs				(10,001)	
STS PCC 188 ATCS Pwr Src at CTS				1	
STS PCC 206 Replace CCTV equipment				0	
UMS Jet Grout at O'Farrell	35,001				
UMS Locate PG&E Conduits	20,001				
UMS MRY Duct Bank-West	54,981				
UMS PCC 118 Elevator Hoist Beams	0				
UMS PCC 122 Drain Piping Details	250,001				
UMS PCC 136 Transformer Vault 3138	8,199				
UMS PCC 153 Geary Catch Basin	(32,257)				
UMS PCC 168 Swing Gates Attachment	9,000				
UMS PCC 181 Plaza ADA Enhancements	7,500				
UMS PCC 193 Lightbox & Glazed Door	21,000				
UMS PCC 198 Ellis Deck Vertical Joi	0				
UMS PCC 212 Trouble Lights	(10,000)				
UMS PCC 213 Electrical at Ellis St.	10,000				
UMS PCC 215 Rmv Conduits in Casing	0				
UMS PCC 71 Rerouting of Slab Drains	0				

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	UMS	CTS	YBM	STS	COST REPORT NOTES	
UMS PCC 93 Ellis Deck Seismic Joint	10,001					
UMS PCC 94 Clean out MRY Ductbank	18,060					
UMS Preload Rqmt for Concourse Level	10,001					
UMS_CTS_YBM PCC 166 Escalator Req's	0					
USG PCC 101 Elev. Machine Rooms	10,000					
USG PCC 102 Fire & Life Safety	40,000					
USG PCC 106 Edge of Slab for 8" Conn	10,001					
USG PCC 108 Con Wok chges du to DSC	10,001					
USG PCC 109 Rein Dtls for Struc Con	10,001					
USG PCC 111 Conc Cemo & Rev Con Dtl	10,001					
USG PCC 112 Glass Walk Roof System	10,001					
USG PCC 113 Elv/Esc Pit Floor Slope	10,001					
USG PCC 116 Demo Column, Const Beam	30,000					
USG PCC 123 South Wall Ground Beams	4,001					
USG PCC 125 Foot,SOG & Str St Chang	50,001					
USG PCC 129 Escalator Work Point	75,000					
USG PCC 133 Sheet Metal HVAC Duct	20,000					
USG PCC 142 Storage Light & Elect.	22,000					
USG PCC 143 Wall Conn, at GL 10/B	0					
USG PCC 144 Conc. Finishing/Repairs	150,000					
USG PCC 147 Geary Streetlight	10,000					
USG PCC 154 Trench Drain at 17 Line	1,000					
USG PCC 155 16-D Footing Demolition	18,000					
USG PCC 156 CMU Footings	25,000					
USG PCC 157 Plaza Level Vent Shaft	0					
USG PCC 158 Elev. Pit CDF Backfill	0					
USG PCC 164 GL 14 Waterproofing	37,934					
USG PCC 165 Arch. Precast Support	30,496					
USG PCC 175 Drainage Under Slab	0					
USG PCC 185 Wall at Line 10 and Hyd	0					
USG PCC 190 Plaza Level Slab Detail	5,000					
USG PCC 191 Column 14 A Changes	2,500					
USG PCC 197 Precast Planter Pots	8,650					
USG PCC 199R-1 Delete Bm and Plntrs	5,000					
USG PCC 89 E. Light Pole Foundation	2,501					
YBM PCC 126 Changes to Kiosks			50,000			
YBM PCC 130 HVAC VRV's			(23)			
YBM PCC 132 Raise Pit Floor Elev 4			60,000			
YBM PCC 140 Stair 3, Escalators 1&2			20,000			
YBM PCC 145 Stair 7/Escalators 3, 4			20,000			
YBM PCC 148 Elev.3, 4 Hoist Beam MP			40,000			
YBM PCC 152 Elevator 1 & 2 changes			100,000			
YBM PCC 159 PG&E Ductbank Changes			(10,000)			
YBM PCC 162 Deluge Valve Door			20,000			

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	UMS	CTS	YBM	STS	COST REPORT NOTES
YBM PCC 171 Additional PTZ CCTV			2,000		
YBM PCC 182 Primers & Vents for FDs			75,000		
YBM PCC 187 Escala. 1-4 HVAC changes			0		
YBM PCC 202 CTS/UMS/YBM Lighting			0		
YBM PCC 208 Added Conduits Invert			0		
YBM PCC 209 Tract Power GRS Downsize			(1)		
YBM PCC 210 Elev 1&2 MRL to Hydraul			(5,000)		
YBM PCC 214 FHC and AR Phones			10,000		
YBM PCC 37 SFAC Node Sculpture			50,797		
YBM PCC 56 OCS Pole Foundations			551		
YBM PCC 59 Pavers Basis of Design			7,516		
YBM PCC 91 Concourse Beam Revision			15,000		
YBM PCC 97 Change Concourse Opening			8,020		
<b>Approved</b>	<b>1,849,309</b>	<b>2,859,843</b>	<b>(150,129)</b>	<b>1,823,396</b>	
<b>Contract Modification</b>					
CMod #1 BART Elevator Option 1 @ Pow	90,000				
CMod #10 YBM PCC 042			64,287		
CMod #11 UMS PCC 002	12,997				
CMod #12 STS Traffic Control				1,032,302	
CMod #13 CTS COR 006		57,707			
CMod #14 YBM COR 036, 078			58,526		
CMod #15 YBM COR 196			3,178		
CMod #16 UMS COR 184	8,261				
CMod #17 CTS CORs 001 053 & 069		54,322			
CMod #18 CTS PCC 012		60,248			
CMod #19 CTS COR 007, 026		2,274,225			
CMod #20 YBM PCC 047 and 45			364,562		
CMod #21 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	
CMod #25 - Various CORs			59,113		
CMod #26 YBM COR 072			84,509		
CMod #27 UMS PCC 092	0				
CMod #28 CTS PCC 017.1		97,743			
CMod #29 STS PCC 009.1				(143,668)	
CMod #3 CTS Work Safely Ard Power Po		25,956			
CMod #30 YBM Various CORs			334,165		
CMod #31 UMS COR 595	53,701				
CMod #32 YBM Various PCCs			92,934		
CMod #33 CTS Various CORs		56,422			
CMod #34 CTS Various CORs		19,334			
CMod #35 STS PCC 077				11,147	
CMod #36 YBM Conflict with Waterline			14,484		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	\$839,676,400 2/10/2018				\$846,058,820 2/10/2018	
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CMod #37 CTS Various CORs		8,886				
CMod #38 STS Various CORs				52,553		
CMod #39 UMS Various CORs	23,271					
CMod #4 CTS-Force Account Change Or		130,000				
CMod #40 YBM Analytical Soil Test			3,655			
CMod #41 YBM Class 2 Conta. Material			40,250			
CMod #42 UMS Addl. Service Conduits	36,873					
CMod #43 UMS D85 Structural Pile	65,188					
CMod #44 UMS Grade 50 Steel	572,884					
CMod #45 STS: PCC 008 - OCS and Truck Changes				107,285		
CMod #46 YBM/CTS/UMS S.walk Hatches			35,489			
CMod #47 UMS Roof Deck Schedule	76,124					
CMod #48 UMS Undgrnd. Storage Tanks	97,817					
CMod #49 STS DSC CORs				136,728		
CMod #5 YBM Deletion of Comp Groutin			(1,833,869)			
CMod #50 STS DSC CORs				67,036		
CMod #51 YBM Various CORs and PCCs			24,875			
CMod #52 YBM Undgrnd. Storage Tanks			167,393			
CMod #53 STS DSC CORs				17,035		
CMod #54 UMS USG Underpinning	732,157					
CMod #55 YBM Archeological Discovery			102,734			
CMod #56 YBM Contaminated Material			106,923			
CMod #57 STS Crossover Materials				21,245		
CMod #58 STS DSC CORs				90,081		
CMod #6 CTS Plaza Constr Supt Servi		75,000				
CMod #7 STS FACOs 016, 017 &COR 009				80,170		
CMod #8 STS PCC 006 ATT MH, PB&Trench				225,208		
CMod #9 YBM COR 10,15,16,18,20,25			126,663			
<b>Grand Total</b>	<b>16,145,676</b>	<b>6,553,343</b>	<b>3,207,699</b>	<b>5,562,469</b>		

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

Report Period: February 2017

		January 2017			February 2017				
Group by Contract & SCC	CATEGORY ITEM	January 2017 Base	January 2017 Allocated Contingency	January 2017 Base + Allocated Contingency (YOE)	February 2017 Base	February 2017 Allocated Contingency	February 2017 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [January 2017] vs. [February 2017]	Cost Report Notes
10-50	<b>CONSTRUCTION CONTRACT PACKAGES</b>	<b>1,143,971,729</b>	<b>37,016,774</b>	<b>1,180,988,503</b>	<b>1,146,361,208</b>	<b>35,687,295</b>	<b>1,182,048,503</b>	<b>1,060,000</b>	
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	235,078,785	834,715	235,913,500	235,078,785	834,715	235,913,500	0	29
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
1300	<b>CN1300 STATIONS TOTAL</b>	<b>844,654,340</b>	<b>35,022,060</b>	<b>879,676,400</b>	<b>845,983,820</b>	<b>33,692,580</b>	<b>879,676,400</b>	<b>0</b>	30
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	295,147,742	18,882,848	314,030,590	295,879,899	18,150,691	314,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	250,352,653	7,215,157	257,567,810	250,352,653	7,215,157	257,567,810	0	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	157,536,946	5,552,055	163,089,001	157,938,871	5,150,130	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	141,616,999	3,372,000	144,988,999	141,812,396	3,176,603	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	<b>OTHER CONSTRUCTION TOTAL</b>	<b>46,386,751</b>	<b>1,160,000</b>	<b>47,546,751</b>	<b>47,446,751</b>	<b>1,160,000</b>	<b>48,606,751</b>	<b>1,060,000</b>	
40.06	PUBLIC ART PROGRAM	8,175,555	1,160,000	9,335,555	8,175,555	1,160,000	9,335,555	0	
40.08	CN1300 JOB READINESS PROGRAM - OUTREACH	0			1,060,000		1,060,000	1,060,000	31
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	32
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: February 2017

		January 2017			February 2017				
Group by Contract & SCC	CATEGORY ITEM	January 2017 Base	January 2017 Allocated Contingency	January 2017 Base + Allocated Contingency (YOE)	February 2017 Base	February 2017 Allocated Contingency	February 2017 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [January 2017] vs. [February 2017]	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	<b>ROW, LAND, EXISTING IMPROVEMENTS</b>	<b>32,246,321</b>	<b>5,265,478</b>	<b>37,511,799</b>	<b>32,246,321</b>	<b>0</b>	<b>32,246,321</b>	<b>(5,265,478)</b>	
60.01	PURCHASE OR LEASE OF REAL ESTATE	30,065,810	5,265,478	35,331,288	30,065,810	0	30,065,810	(5,265,478)	33
60.02	RELOCATION OF EXISTING HOUSEHOLDS	2,180,511		2,180,511	2,180,511		2,180,511	0	
70	<b>VEHICLES</b>	<b>13,309,000</b>	<b>13,076,653</b>	<b>26,385,653</b>	<b>13,309,000</b>	<b>13,076,653</b>	<b>26,385,653</b>	<b>0</b>	
70.01	LIGHT RAIL	13,309,000	13,076,653	26,385,653	13,309,000	13,076,653	26,385,653	0	34
70.07	SPARE PARTS								
80	<b>PROFESSIONAL SERVICES</b>	<b>310,518,041</b>	<b>18,221,079</b>	<b>328,739,120</b>	<b>310,518,041</b>	<b>18,221,079</b>	<b>328,739,120</b>	<b>(0)</b>	
80.01	PRELIMINARY ENGINEERING	46,202,674		46,202,674	46,202,674		46,202,674	0	
80.02	FINAL DESIGN	61,318,331		61,318,331	61,318,331		61,318,331	0	
80.03	PROJECT MANAGEMENT FOR DESIGN & CONSTRUCTION	89,012,544	13,905,845	102,918,389	89,012,544	13,905,845	102,918,389	0	

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

Report Period: February 2017

		January 2017			February 2017				
Group by Contract & SCC	CATEGORY ITEM	January 2017 Base	January 2017 Allocated Contingency	January 2017 Base + Allocated Contingency (YOE)	February 2017 Base	February 2017 Allocated Contingency	February 2017 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [January 2017] vs. [February 2017]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	91,096,881	2,956,812	94,053,693	91,096,881	2,956,812	94,053,693	(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	8,212,604		8,212,604	8,212,604		8,212,604	(0)	
80.07	SURVEYS, TESTING, INVESTIGATION. INSPECTION	933,100		933,100	933,100		933,100	0	
80.08	START-UP	6,941,907	1,358,422	8,300,329	6,941,907	1,358,422	8,300,329	0	
	<b>ALL SCC CATEGORIES 10 TO 80</b>	<b>1,500,045,091</b>	<b>73,579,984</b>	<b>1,573,625,076</b>	<b>1,502,434,570</b>	<b>66,985,027</b>	<b>1,569,419,597</b>	<b>(4,205,478)</b>	35
90	UNALLOCATED CONTINGENCIES			4,674,927			8,880,405	4,205,478	36
	<b>TOTAL PROJECT COST 10 TO 100</b>			<b>1,578,300,002</b>			<b>1,578,300,002</b>		
	<b>TOTAL CONTINGENCY</b>			78,254,911			75,865,432		
	<b>CONTINGENCY MINIMUM</b>			60,000,000			60,000,000		
	<b>BELOW OR ABOVE MINIMUM</b>			18,254,911			15,865,432		

COST STATUS BY CATEGORY	SCC CODES	BUDGET January 2017	BUDGET TRANSFERS	BUDGET February 2017	February 2017 CTD	February 2017 EAC
CONSTRUCTION	SCC 010 - 050	1,180,988,504	1,060,000	1,182,048,504	756,254,469	1,171,693,629
REAL ESTATE	SCC 060	37,511,799	(5,265,478)	32,246,321	30,731,521	32,246,321
VEHICLES	SCC 070	26,385,653	0	26,385,653	2,147,782	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	61,199,308	61,318,331
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	196,972,082	0	196,972,082	128,033,535	180,109,425
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,246,033	0	24,246,033	11,476,809	22,887,611
UNALLOC CONTINGENCY	SCC 090	4,674,924	4,205,478	8,880,402		
<b>Grand Total</b>		<b>1,578,300,000</b>	<b>(0)</b>	<b>1,578,300,000</b>	<b>1,036,046,099</b>	<b>1,527,766,991</b>

SCC DESCRIPTION	February 2017 BUDGET	February 2017 CTD
010 - GUIDEWAY & TRACK ELEMENTS	285,227,879	219,671,955
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	588,378,363	320,244,427
040 - SITEWORK & SPECIAL CONDITIONS	213,196,951	193,156,050
050 - SYSTEMS	95,245,311	23,182,037
060 - ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	30,731,521
070 - VEHICLES (number)	26,385,653	2,147,782
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	328,739,120	246,912,327
090 - UNALLOCATED CONTINGENCY	8,880,402	
<b>Grand Total</b>	<b>1,578,300,000</b>	<b>1,036,046,099</b>

SCC DESCRIPTION	February 2017 BUDGET	February 2017 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	145,000
010.06-Guideway: Underground cut & cover	69,816,407	61,878,677
010.07-Guideway: Underground tunnel	201,340,746	152,381,762
010.09-Track: Direct fixation	6,761,089	2,647,916
010.12-Track: Special (switches, turnouts)	4,449,637	2,618,600
020.01-At-grade station, stop, shelter, mall, terminal, platform	7,602,857	1,452,844
020.02-Aerial station, stop, shelter, mall, terminal, platform	3,176,603	0
020.03-Underground station, stop, shelter, mall, terminal, platform	555,897,066	314,905,735
020.07-Elevators, escalators	21,701,837	3,885,848
040.01-Demolition, Clearing, Earthwork	12,294,303	11,854,204
040.02-Site Utilities, Utility Relocation	59,490,711	61,403,626
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	7,452,221	4,618,315
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	624,100
040.05-Site structures including retaining walls, sound walls	2,706,431	2,706,431
040.06-Pedestrian / bike access and accommodation, landscaping	9,790,995	2,384,076
040.07-Automobile, bus, van accessways including roads, parking lots	6,579,099	3,234,614
040.08-Temporary Facilities and other indirect costs during construction	113,760,292	106,330,684
050.01-Train control and signals	28,031,423	7,264,219
050.02-Traffic signals and crossing protection	12,562,529	9,116,474
050.03-Traction power supply: substations	21,465,073	5,264,911
050.04-Traction power distribution: catenary and third rail	12,441,113	1,365,429
050.05-Communications	12,030,586	171,003
050.06-Fare collection system and equipment	6,100,000	0
050.07-Central Control	2,614,586	1
060.01-Purchase or lease of real estate	30,065,810	28,322,091
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	26,385,653	2,147,782
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,199,308
080.03-Project Management for Design and Construction	102,918,389	66,605,256
080.04-Construction Administration & Management	94,053,693	61,428,279
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.	8,212,604	4,304,907
080.07-Surveys, Testing, Investigation, Inspection	933,100	831,706
080.08-Start up	8,300,329	0
090.00-Unallocated Contingency	8,880,402	
<b>Grand Total</b>	<b>1,578,300,000</b>	<b>1,036,046,099</b>

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] February 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
<b>TOTAL PRELIMINARY ENGINEERING</b>	<b>46,542,061</b>	<b>46,542,061</b>	<b>0</b>	<b>0</b>	<b>46,542,061</b>	<b>0</b>	37
11 - SFMTA PROJECT MANAGEMENT	8,800,164	8,253,957	0	0	8,253,957	546,208	38
12 - SFMTA ENGINEERING SERVICES	11,425,594	11,425,594	0	0	11,425,594	0	39
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	0	40
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	336,735	319,335	0	17,400	336,735	0	41
32 - DPW - IDC ENGINEERING (HYDRAULIC)	3,322,887	3,336,432	0	0	3,336,432	(13,545)	
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	42
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	26,793,234	26,793,234	0	0	26,793,234	0	43
66 - ANIL VERMA	395,204	395,204	0	0	395,204	0	44
67 - HILL INTERNATIONAL CONTRACT 156	6,716,294	6,716,294	0	0	6,716,294	0	45
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	46
72 - STATIONS - CONTRACT # CONTRACT 155-2	26,220,609	26,220,609	0	0	26,220,609	0	47
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	11,432,312	11,432,312	(0)	0	11,432,312	0	48
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	
<b>TOTAL FINAL DESIGN</b>	<b>115,075,988</b>	<b>113,933,552</b>	<b>0</b>	<b>17,400</b>	<b>113,950,952</b>	<b>1,125,035</b>	
11 - SFMTA PROJECT MANAGEMENT	15,589,933	8,681,928	198,567	178,797	8,860,725	6,729,208	
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	15,589,933	8,681,928	198,567	178,797	8,860,725	6,729,208	
12 - SFMTA ENGINEERING SERVICES	2,923,582	2,449,295	9,979	8,369	2,457,664	465,918	
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	2,800,000	2,391,647	9,979	8,369	2,400,016	399,984	
13 - SFMTA CONSTRUCTION MANAGEMENT	37,118,350	12,380,902	228,283	205,741	12,586,643	24,531,707	
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	37,118,350	12,380,902	228,283	205,741	12,586,643	24,531,707	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	1,913,566	53,674	32,502	1,946,068	2,072,579	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	86,411	1,391	0	86,411	213,189	

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	[B] February 2017 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 CTS	274,900	73,760	210	211	73,971	200,929	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	119,084	1,545	887	119,971	118,429	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	222,114	6,901	985	223,099	653,777	
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	
1.3.016.08.040.08 - 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]	252,536	252,536	0	0	252,536	0	
1.3.016.08.080.04 - DPT:SSD [13BN]	23,302	23,302	0	0	23,302	0	
1.3.016.08.080.04 - DPT:SSD [13CN]	963	963	0	0	963	0	
1.3.016.08.080.04 - DPT:SSD [B85]	92,008	92,008	0	0	92,008	0	
1.3.016.03.040.08 - PCOS:1300/UMS [68CPT544132W.CPT544132W]	0	161,753	0	0	161,753	(161,753)	
1.3.016.05.040.08 - PCOS:1300/YBM [68CPT544132Y.CPT544132Y]	0	4,052	0	0	4,052	(4,052)	
1.3.016.09.040.08 - PCOS:1300/STS [68CPT544132Z.CPT544132Z]	0	163,111	43,626	30,418	193,529	(193,529)	
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	39,495	0	0	39,495	286,974	
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	13,026	0	0	13,026	286,974	
19 - OTHER SFMTA	700,000	944,829	0	0	944,829	(244,829)	
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	1,800	714	0	0	714	1,086	
1.3.019.08.040.08 - OTH.MTA 1251 MATERIALS	150,000	126,149	0	0	126,149	23,851	
1.3.019.08.080.07 - OTH.MTA OPERATION SUPPORT DUR1	548,200	817,966	0	0	817,966	(269,766)	
21 - ARTS COMMISSION	12,010,885	2,911,862	13,047	84,445	2,996,307	9,014,579	
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]	2,020,290	388,167	0	0	388,167	1,632,123	49
1.3.021.01.080.04 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441227]	21,000	11,386	0	1,079	12,465	8,535	
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.132J]	538,092	533,095	6,122	4,998	538,092	0	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFUNA.CPT5441327]	5,418	5,418	0	0	5,418	0	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441327]	4,439	4,082	0	357	4,439	0	
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	576,054	6,925	78,011	654,066	1,248,934	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [132J]	86,091	0	0	0	0	86,091	
1.3.021.97.040.06 - ARTS:ARTS COMMISSION ALLOC CO	1,160,000	0	0	0	0	1,160,000	
23 - CITY ATTORNEY'S OFFICE	2,171,781	1,282,942	81,849	0	1,282,942	888,839	
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	1,282,942	81,849	0	1,282,942	888,839	
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)	0	0	0	0	(2,925,296)	

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26 - PLANNING	137,062	25,918	523	0	25,918	111,144	
1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	25,918	523	0	25,918	111,144	
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	3,098,971	29,950	69,017	3,167,988	1,074,024	
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	508,800	0	0	508,800	(110,400)	
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	171,390	3,526	5,982	177,372	428,982	
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	31,272	492	1,318	32,590	197,410	
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	172,253	916	2,003	174,256	97,499	
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	11,839	0	3,927	15,766	99,234	
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	317,044	6,183	21,343	338,387	111,895	
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	49,800	656	0	49,800	134,200	
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	225,079	225,079	0	0	225,079	0	
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]	340,310	318,130	0	0	318,130	22,180	
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	361,916	12,951	8,681	370,597	149,480	
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	140,348	5,228	25,764	166,112	40,888	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	1,150,459	224,322	4,947	375	224,697	800,100	
1.3.032.01.080.04 - CM:DPW:1424J-BUREAU OF ENGINEERING (BOE) [AB12]	(285,405)	(285,405)	0	0	(285,405)	0.00	
1.3.032.03.080.04 - DPW IDC HYDRAULIC CN1300 UMS SUPPORT	297,938	25,505	1,465	0	25,505	272,433	
1.3.032.04.080.04 - DPW IDC HYDRAULIC CN1300 CTS SUPPORT	295,639	22,125	1,465	0	22,125	273,514	
1.3.032.05.080.04 - DPW IDC HYDRAULIC CN1300 YBM SUPPORT	301,882	30,502	0	0	30,502	271,380	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112B112]	85,275	85,275	0	0	85,275	0.00	50
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C112]	109,658	109,658	0	0	109,658	0.00	51
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D112]	15,791	15,791	0	0	15,791	0.00	52
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E112]	11,193	11,193	0	0	11,193	0	53
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F112]	107,798	107,798	0	0	107,798	0	54
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G112]	21,690	47,917	0	0	47,917	(26,227)	55
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	53,963	2,017	375	54,338	125,662	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	6,703,969	5,431,462	65,219	552,250	5,983,712	720,257	
1.3.034.01.080.04 - DPW:BCM LABOR [2113]	2,140,142	2,140,142	0	0	2,140,142	0	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [CD12]	1,207,603	1,207,603	0	0	1,207,603	0	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [13AC12]	138,397	138,397	0	0	138,397	0	
1.3.034.06.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [132112]	506,858	0	0	506,858	506,858	0	
1.3.034.06.080.04 - DPW:CONSTR:1300 CM [13CP12]	2,710,969	1,945,320	65,219	45,392	1,990,712	720,257	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	465,562	111,741	0	0	111,741	353,821	



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1.3.036.01.080.04 - DPW:MPPG:DPW-BUREAU OF ST USE	367,129	32,680	0	0	32,680	334,449	
1.3.036.02.080.04 - DPW:MPPG:1300-DPW-BUREAU OF ST USE [13CG12]	50,000	33,084	0	0	33,084	16,916	
1.3.036.02.080.06 - DPW:MPPG:DPW-BUREAU OF ST USE [13CF]	48,433	45,977	0	0	45,977	2,456	
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)	613,853	942,284	0	(506,858)	435,426	178,427	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2213]	92,459	92,459	0	0	92,459	0	
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	0	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	770,843	624,453	0	0	624,453	146,390	
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	597,899	0	0	597,899	98,854	
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	15,829	0	0	15,829	39,171	
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM TRAILER	9,090	9,669	0	0	9,669	(579)	
55 - 651 BRANNAN	10,348	10,348	(0)	0	10,348	0	
1.3.055.01.080.03 - CM:ODCs - 651 BRANNAN STREET	10,348	10,348	(0)	0	10,348	0	56
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	49,490,087	32,258,759	491,970	476,270	32,735,029	16,755,058	
1.3.063.01.080.03 - CM:PM:AECOM.CS149 OM-EPC JV CS149-PM	9,507,939	5,017,804	0	0	5,017,804	4,490,135	57
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3B]	5,218,630	1,969,213	0	0	1,969,213	3,249,417	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3E]	7,000,000	6,386,250	0	0	6,386,250	613,750	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3E][PM]	1,596,563	1,596,563	0	0	1,596,563	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3F]	1,025,366	4,101,466	0	0	4,101,466	(3,076,099)	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3F][PM]	1,025,366	1,025,366	0	0	1,025,366	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3G]	1,587,361	3,932,790	358,498	397,670	4,330,460	(2,743,099)	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3G][PM]	1,287,361	1,004,015	0	78,600	1,082,615	204,746	
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]	461,196	461,196	0	0	461,196	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9G]	133,472	133,472	133,472	0	133,472	0	

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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	
64 - CN1300 JOB READINESS PROGRAM	1,060,000	0	0	0	0	1,060,000	58
1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM	1,060,000	0	0	0	0	1,060,000	
67 - HILL INTERNATIONAL CONTRACT 156	11,000,000	2,430,031	(211,190)	34,433	2,464,464	8,535,536	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1336]	920,426	920,426	0	0	920,426	0	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1337]	533,148	533,148	0	0	533,148	0	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. [1330]	127,261	127,261	0	0	127,261	0	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2016 [68CPT5441340.CPT5441340]	9,419,165	849,197	(211,190)	34,433	883,630	8,535,535	
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	241,787	0	13,357	255,144	244,856	59
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	241,787	0	13,357	255,144	244,856	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	2,158,846	2,071,645	15,000	15,000	2,086,645	72,201	
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	60
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	2,158,846	2,158,846	15,000	15,000	2,173,846	(15,000)	
72 - STATIONS - CONTRACT # CONTRACT 155-2	9,612,416	9,073,986	437,850	(54,532)	9,019,454	592,962	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	51,351	51,351	0	0	51,351	0	61
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	9,561,065	9,022,636	437,850	(54,532)	8,968,103	592,962	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	2,671,999	141,753	162,439	2,834,438	1,993,831	
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	2,582,208	141,753	162,439	2,744,648	1,993,621	
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	62
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	
<b>GUIDEWAY TUNNELS TOTAL</b>	<b>235,913,500</b>	<b>233,793,900</b>	<b>0</b>	<b>0</b>	<b>233,793,900</b>	<b>2,119,601</b>	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE	233,584,015	231,897,864	0	0	231,897,864	1,686,151	63
1.3.083.02.010.06 - CONTRACT 1252:GUIDEWAY:UNDERGRN'D CUT	60,446,425	60,446,425	0	0	60,446,425	0	
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	

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	[B] February 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
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	0	0	0	0	200,000	
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	4,532	0	0	4,532	45,468	
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	30,270,012	0	0	30,270,012	529,488	
<b>83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMODs</b>	<b>1,494,770</b>	<b>1,896,036</b>	<b>0</b>	<b>0</b>	<b>1,896,036</b>	<b>(401,266)</b>	<b>64</b>
1.3.083.83.010.06 - CONTRACT 1252: CONTRACT MOD	112,251	112,251	0	0	112,251	0	
1.3.083.83.010.07 - CONTRACT 1252: CONTRACT MOD	1,941,810	1,891,810	0	0	1,891,810	50,000	
1.3.083.83.020.03 - CONTRACT 1252: CONTRACT MOD	1,004,156	1,004,156	0	0	1,004,156	0	
1.3.083.83.040.02 - CONTRACT 1252: CONTRACT MOD	1,035,588	935,588	0	0	935,588	100,000	
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	(3,052,510)	(2,501,244)	0	0	(2,501,244)	(551,266)	
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	834,715	0	0	0	0	834,715	65
<b>CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL</b>	<b>879,676,400</b>	<b>452,925,483</b>	<b>7,663,326</b>	<b>8,765,414</b>	<b>461,690,897</b>	<b>417,985,503</b>	<b>66</b>
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253</b>	<b>294,030,590</b>	<b>181,628,740</b>	<b>2,564,386</b>	<b>2,793,660</b>	<b>184,422,400</b>	<b>109,608,190</b>	<b>20</b>
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	157,384,453	2,556,891	2,555,357	159,939,810	93,141,642	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	1,374,096	0	171,640	1,545,736	7,919,958	
1.3.084.03.040.01 - UMS.1253: DEMOLITION CLEARING	6,071,588	5,884,089	0	0	5,884,089	187,499	
1.3.084.03.040.02 - UMS.1253: SITE UTILITIES UTIL	4,360,395	2,810,008	0	0	2,810,008	1,550,387	
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	326,217	0	20,375	346,592	203,408	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	231,010	0	0	231,010	13,490	
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	1,158,410	54,201	0	0	54,201	1,104,209	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	9,742,549	(46,505)	(39,212)	9,703,337	1,436,364	
1.3.084.03.050.02 - UMS.1253: TRAFFIC SIGNALS AND	4,773,076	3,720,576	50,000	75,000	3,795,576	977,500	
1.3.084.03.050.03 - UMS.1253: TRACTION POWER SUPPL	1,815,534	12,001	0	10,500	22,501	1,793,033	
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	11,001	4,000	0	11,001	1,123,313	
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs</b>	<b>1,849,309</b>	<b>621,139</b>	<b>175,777</b>	<b>732,157</b>	<b>1,353,296</b>	<b>496,013</b>	
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	
1.3.084.84.040.01 - CMOD:UMS.1253: DEMOLITION CLEARING	883,675	151,518	97,817	732,157	883,675	0	
1.3.084.84.040.02 - CMOD:UMS.1253: SITE UTILITIES UTIL	762,054	282,239	77,960	0	282,239	479,815	
1.3.084.84.040.08 - CMOD:UMS.1253: TEMPORARY FACILITIES	76,124	76,124	0	0	76,124	0	
1.3.084.94.020.03 - UMS.1253: AC: ALLOC CONTING	18,150,691	0	0	0	0	18,150,691	67
<b>85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254</b>	<b>247,567,810</b>	<b>126,417,724</b>	<b>2,189,885</b>	<b>1,920,548</b>	<b>128,338,272</b>	<b>119,229,538</b>	
1.3.085.04.010.07 - CTS.1254: GUIDEWAY: UNDERGROUND TUNNEL	76,417,579	40,302,432	1,784,340	1,588,631	41,891,063	34,526,516	
1.3.085.04.020.03 - CTS.1254: UNDERGROUND STATION	133,001,053	61,993,458	291,400	302,340	62,295,798	70,705,255	

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1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	1,225,001	0	0	1,225,001	5,587,855	
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	4,838,586	20,650	0	4,838,586	1,163,132	
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	27,500	0	0	27,500	198,177	
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	15,895,512	10,000	10,000	15,905,512	665,810	
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	1,139,230	73,295	19,577	1,158,807	440,786	
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	311,500	0	0	311,500	3,752,427	
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	59,440	8,200	0	59,440	65,041	
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	6,500	2,000	0	6,500	1,652,438	
<b>85 - CHINATOWN STATION (CTS) CMODs</b>	<b>2,784,843</b>	<b>1,459,474</b>	<b>0</b>	<b>86,367</b>	<b>1,545,841</b>	<b>1,239,002</b>	<b>68</b>
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	296,955	291,120	0	0	291,120	5,835	
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	2,274,225	962,435	0	86,367	1,048,802	1,225,423	
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	7,215,157	0	0	0	0	7,215,157	69
<b>86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255</b>	<b>158,089,000</b>	<b>94,799,218</b>	<b>1,795,742</b>	<b>1,826,518</b>	<b>96,625,736</b>	<b>61,463,264</b>	
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	70,335,581	1,645,309	1,458,000	71,793,581	46,612,259	
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	804,611	0	220,500	1,025,111	4,308,176	
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	7,163,278	6,199,200	0	15,000	6,214,200	949,078	
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	1,864,906	0	(50,000)	1,814,906	814,533	
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	100,000	0	(100,000)	0	100,000	
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	750,301	104,600	116,700	867,001	675,724	
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	12,469,146	10,000	132,985	12,602,131	2,962,622	
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	1,487,421	33,333	33,333	1,520,754	205,738	
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	119,050	2,500	0	119,050	3,589,375	
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	12,001	0	0	12,001	1,229,095	
<b>86 - YERBA BUENA MOSCONE STATION (YBM) CMODs</b>	<b>(150,129)</b>	<b>(883,881)</b>	<b>0</b>	<b>396,298</b>	<b>(487,583)</b>	<b>337,454</b>	
1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	(1,833,869)	(1,833,869)	0	0	(1,833,869)	0	
1.3.086.86.040.01 - CMOD:YBM.1255: DEMOLITION CLEARING	266,386	98,993	0	167,393	266,386	0	
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	1,125,125	803,912	0	19,248	823,160	301,965	
1.3.086.86.040.03 - CMOD:YBM.1255: HAZARDOUS MATERIALS	150,828	43,905	0	106,923	150,828	0	
1.3.086.86.040.04 - CMOD:YBM.1255: ENVIRONMENTAL MITIGA	102,734	0	0	102,734	102,734	0	
1.3.086.86.040.06 - CMOD:YBM.1255: PEDESTRIAN/BIKE	35,489	0	0	0	0	35,489	
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	3,178	3,178	0	0	3,178	0	

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1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	5,150,130	0	0	0	0	5,150,130	70
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	47,309,789	879,808	896,469	48,206,258	91,782,742	
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (ALLOWS CROSS TR	2,860,000	145,000	0	0	145,000	2,715,000	
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	9,257,731	1,200,001	75,000	120,000	1,320,001	7,937,730	
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,723,552	3,258,363	129,180	175,600	3,433,963	13,289,589	
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	2,647,916	0	0	2,647,916	4,113,174	
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	7,602,857	1,535,777	0	(82,933)	1,452,844	6,150,013	
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	10,881,984	389,100	428,835	11,310,819	6,153,227	
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	162,960	(20,000)	(16,000)	146,960	53,040	
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	35,000	(15,000)	(5,000)	30,000	20,000	
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	710,550	50,000	40,000	750,550	1,366,375	
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,896,832	11,190,973	79,700	97,210	11,288,183	2,608,648	
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	7,094,219	0	120,000	7,214,219	20,329,232	
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	2,623,560	17,778	17,777	2,641,337	1,822,031	
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	2,061,948	174,050	0	2,061,948	7,827,066	
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	1,001,437	0	980	1,002,417	5,097,258	
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	141,500	0	0	141,500	7,854,737	
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	1	0	0	1	2,614,585	
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	1,823,396	1,573,280	57,728	113,397	1,686,677	136,719	
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	751,628	602,712	136,728	195,397	798,109	(46,481)	
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,219	0	0	18,219	2	
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	1,053,547	952,349	(79,000)	(82,000)	870,349	183,198	
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	3,176,603	0	0	0	0	3,176,603	71
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	
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	

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1.3.191.01.050.06 - FARE.CONSUL: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 UTIL1 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	50,000	33,152	0	0	33,152	16,848	
1.3.331.01.080.06 - CM: BAY AREA RAPID TRANSIT (BART) [122A]	901,356	27,304	0	0	27,304	874,052	
333 - AMERICAN PUBLIC TRANSP. ASSOCIATION (APTA) CS-APTA	146,500	62,112	0	0	62,112	84,388	
1.3.333.01.080.03 - APTA:APTA - IRP [2G]	46,500	31,054	0	0	31,054	15,446	
1.3.333.01.080.03 - APTA:APTA - IRP [2C]	100,000	31,058	0	0	31,058	68,942	
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	
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)	72
1.3.491.03.040.02 - FORMB - UMS:CONTRACT 1300 UTILITY REIMBURSEMENT	(528,370)	0			0	(528,370)	73
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEMENT	(451,703)	0			0	(451,703)	74
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEMENT	(100,000)	0			0	(100,000)	75
1.3.491.06.040.02 - FORMB - CONTRACT 1300 UTILITY REIMBUR	0	0			0	0	76
1.3.491.07.040.02 - FORMB - CONTRACT 1250 UTILITY REIMBUR	(2,275,419)	0			0	(2,275,419)	77
1.3.491.08.040.02 - FORMB - CONTRACT 1251 UTILITY REIMBUR	(7,618,412)	0			0	(7,618,412)	78

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] February 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.491.09.040.02 - FORMB - STS:CONTRACT 1300 UTILITY REIMBURSEMENT	(1,000,000)	0			0	(1,000,000)	79
<b>TOTAL CONSTRUCTION PHASE</b>	<b>1,349,275,482</b>	<b>832,742,667</b>	<b>9,224,747</b>	<b>10,037,020</b>	<b>842,779,687</b>	<b>506,655,936</b>	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES RFP [34B]	1,324,123	1,319,773	0	0	1,319,773	4,350	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES PROJECT MGT [68E]	828,009	828,009	0	0	828,009	0	
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	23
<b>TOTAL VEHICLES</b>	<b>26,385,654</b>	<b>2,147,782</b>	<b>0</b>	<b>0</b>	<b>2,147,782</b>	<b>24,237,871</b>	
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	15,955,637	14,307,667	0	0	14,307,667	1,647,970	
1.5.015.01.060.01 - RE: REAL ESTATE	766,272	766,272	0	0	766,272	0	
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	0					0	
1.5.023.01.060.01 - ATTY:REAL ES	2,764,373	2,764,373	64	0	2,764,373	0	
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)	
<b>TOTAL ROW, LAND, EXISTING IMPROVEMENTS</b>	<b>32,140,418</b>	<b>30,625,617</b>	<b>64</b>	<b>0</b>	<b>30,625,617</b>	<b>1,514,801</b>	
<b>90 - CONTINGENCY</b>	<b>75,865,430</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,865,430</b>	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	8,880,402					8,880,402	80
<b>TOTAL ALLOCATED CONTINGENCY</b>	<b>66,985,028</b>					<b>66,985,028</b>	
<b>TOTAL PROJECT COST</b>	<b>1,578,300,003</b>	<b>1,025,991,679</b>	<b>9,224,811</b>	<b>10,054,420</b>	<b>1,036,046,099</b>	<b>542,414,046</b>	

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.
15	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.
16	Public Works' funds are for reimbursements for work carried out on behalf of Public Works MOU for Water Line above YBM Station.



7.4 Contingency Management Trend Report	
17	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.
18	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.
19	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. In July 2016 report, increased Contract 1252 contingency by \$15,259 cost to reflect certification of one CMOD. In October 2016 report, increased Contract 1252 contingency by \$319,658 to reflect certification of three credit CMODs.
20	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.
21	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718.
22	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. In February 2017, released \$5,265,478 from real estate contingency to program unallocated contingency.
23	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.
24	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 added to program's unallocated contingency. In August 2016 Report, moved \$15M to UMS contingency and \$5M to CTS contingency. In February 2017, increased \$5,265,478 from real estate contingency to program unallocated contingency.

25	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.
26	Estimate at Completion is shown at Column "e".
27	Estimate at Completion vs. Budget variance is shown at Column "k".

**7.5 Contract Modification/Trend Log - Contract 1300 Stations**

28	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**

29	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. In October 2016 Report, increased CN1252 allocated contingency by \$319,658 to execute three contract modifications (#57, #58 and #59), see Report 7.5 Detail Contingency Usage Report.
30	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718.
31	In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value.
32	In April 2015, initiated budget from program unallocated contingencies for CS-175 Bayland Soil Process contract, refer to Note 20.
33	In February 2017, released \$5,265,478 assigned real estate contingency to program unallocated contingency.
34	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.
35	In October 2016 report, 1252 program contingency increased by \$319,658 due to execution of three contract modifications as credit offsets. In November 2016 report, took away \$75,000 funding from program's unallocated contingency and moved to CTS allocated contingency. In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value. Also released \$5,265,478 assigned real estate contingency to program unallocated contingency.

36	In April 2015 report, program contingency decreased by \$500,000. 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. In August 2016, released a total of \$20M unassigned contingency to assigned contingency; \$15M to CN1300 UMS station and \$5M to CTS station. In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value. Also released \$5,265,478 assigned real estate contingency to program unallocated contingency.
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**7.9 Detail Monthly Expenditure Report**

**Phase 1 Preliminary Engineering**

37	<b>In February 2017, line item budget was adjusted to line-up expenditures.</b> 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.
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**Phase 2 Design Phase**

38	Famis cost adjustment to transfer Project Management cost from July 2013 to Phase 3 Construction Phase.
39	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.
40	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]
41	In December 2016 Report, Central Subway Project has re-activated CSA Audit Work Order to perform overhead audit for three consultant forms.
42	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]
43	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]
44	AVA Cost \$395,204 is reported in Phase 2 Final Design 1.2.066.01.080.03
45	In January 2017 Report, remove variance amount of (\$920,555) that was incorrectly reported in August 2016.

46	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]
47	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]
48	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]

<b>Phase 3 CONSTRUCTION PHASE</b>	
49	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
50	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112B112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
51	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
52	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
53	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
54	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
55	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.

56	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
57	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]
58	In February 2017, transferred \$1,060,000 from programs unallocated contingency to give to 1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM. Waiting for cmod in that amount and then will transfer the funds back.
59	Used \$500K program contingency for CS-175 Bayland Soil Process contract. Refer to Report Notes #20.
60	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]
61	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]
62	Contract 1251 Final cost is \$20,794,582.
63	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
64	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
65	Revised Contract 1252 allocated contingency SCC code from 040.08 to 010.07.
66	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.
67	Revised Contract 1300/UMS allocated contingency SCC code from 040.08 to 020.03.
68	In March 2016 Report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS.
69	Revised Contract 1300/CTS allocated contingency SCC code from 040.08 to 020.03.
70	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
71	Revised Contract 1300/STS allocated contingency SCC code from 040.08 to 020.01.
72	Revised Form B Reimbursements SCC code from 900.01 to 040.02
73	Revised Form B Reimbursements SCC code from 900.01 to 040.02

74	Revised Form B Reimbursements SCC code from 900.01 to 040.02
75	Revised Form B Reimbursements SCC code from 900.01 to 040.02
76	Revised Form B Reimbursements SCC code from 900.01 to 040.02
77	Revised Form B Reimbursements SCC code from 900.01 to 040.02
78	Revised Form B Reimbursements SCC code from 900.01 to 040.02
79	Revised Form B Reimbursements SCC code from 900.01 to 040.02
80	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. In August 2016, released \$20M to CN1300 Construction assigned contingency from program unallocated contingency. In February 2017, used \$1,060,000 for CN1300 Job Readiness Program from unallocated contingency, refer to Note 31. Also, released \$5,265,478 assigned real estate contingency to program unallocated contingency, refer to Note 33.

*Appendix B*

**DETAIL SCHEDULE REPORTS**

## **SCHEDULE HIGHLIGHTS**

The Master Project Schedule (MPS) below includes progress through February 2017. The February 2017 Schedule Update submittal from Contract 1300 Contractor was not submitted due previous update corrections that needed to be completed before TPC provide the February update. The Contract 1300 schedule represented in this report is based on the SFMTA February 2017 Schedule Update.

The MPS shows a forecast Revenue Service Date of October 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. Excavation and Support of the Top Right Heading & Bench continues with lower than expected levels of production. Despite expected ground conditions as described in the GBR, TPC's mining productivity has not been as planned. TPC has continued the mitigation effort to institute two-twelve hours shifts or six days per week, in an effort to recover some lost time. Contract 1300 Schedule shows 17 days of delay in February with a new forecasted Revenue Service Date of 21 October 2019

Contract 1300 Contractor submitted twenty-seven (27) Schedule Updates from December 2014 to February 2017. SFMTA rejected fifteen (15) Schedule Updates from November 2015 to April 2016 and June to February 2017. SFMTA approved as noted the September 2015, October 2015 and May 2016 Schedule Updates. 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 schedule. The preliminary SFMTA Contract 1300 February 2017 schedule is used within the February Report. The SFMTA Contract 1300 February 2017 schedule is based on the approved baseline schedule logic with adjustments made for fixing retained logic and lags. The SFMTA will continue to use the SFMTA 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.

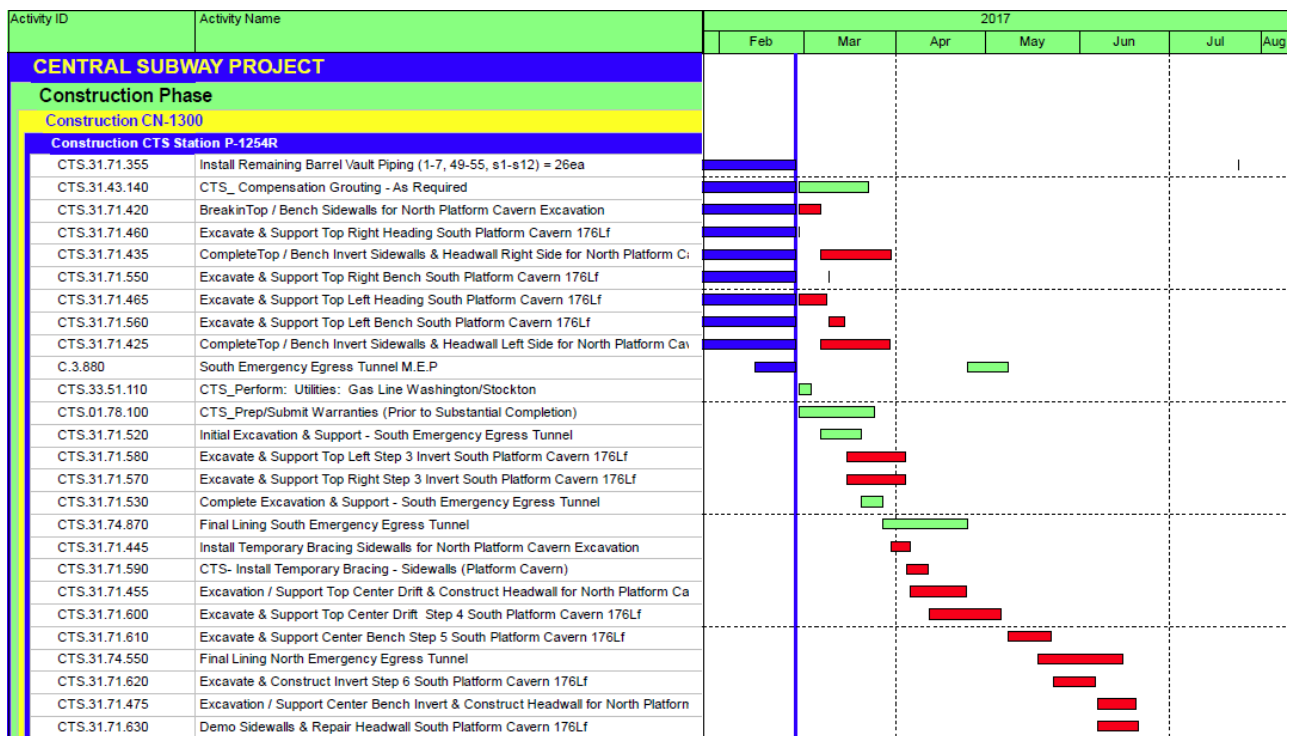


**Work Package P-1254R (CTS) has performed the following work this month:**

- Head house- excavated to 16' below Temp Level 5.0 walers and struts
- Breakout/excavation of the Platform Caverns (North and South) continues, Right Side Drift and Left Side Drift for both headings
- Incidental street work (minor), ongoing monitoring and surveying
- Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel

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

- Completed Chinese New Year Moratorium, adjustments made in vicinity of North Emergency Egress Shaft
- Platform Caverns (North and South) – continue with excavation of Left and Right Side Drifts top heading, bench, and temporary invert
- Platform Caverns (North and South) – begin Left and Right Side Drift inverts
- Joint trench work along Chinese United Methodist Church on Washington Street to begin



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

- North Concourse: Install utilities. Installation of soil nail wall to facilitate excavation of remainder of concourse area.
- Platform Station: Continue to excavate below intermediate strut level and install temporary structural steel.
- UMS North Entrance – Erection of structural steel, and installation of column casings continued. Excavation, and installation of soil nails and shotcrete commenced and progressed to Lift 2 along the fan trench between gridlines 16 and 17.
- Union Square Garage Ramps - PCC-144- Completed painting of columns on new garage ramps

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

- Nighttime lane closures expected for utility work. Ellis Street expected to have nighttime intermittent closures.
- North Concourse: Continue to install utilities. Excavation and structural steel deliveries. Installation of soil nail walls continues.
- Platform Station: Continue to excavate and install structural & temporary steel support system.
- Ellis Annex: Install OCS overhead cables and permanent poles, lightweight concrete, and backfill. Install utilities on Ellis Street.
- UMS North Entrance – Complete structural steel erection. Continue excavation, soil nails and shotcrete along Fan Level Trench along GL 17
- Union Square Garage – complete testing and commissioning of new fire and life safety devices within garage

Activity ID	Activity Name	2017						
		Feb	Mar	Apr	May	Jun	Jul	Aug
<b>CENTRAL SUBWAY PROJECT</b>								
<b>Construction Phase</b>								
<b>Construction CN-1300</b>								
<b>Construction UMS Station P-1253</b>								
Administrative / Milestones								
Engineering & Procurement								
Compensation Grouting								
Roof Deck Excavation, Construction, Restoration								
Excavation & Support								
UMS.31.50.0250	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)							
UMS.31.23.730	UMS_Dewatering Maintenance							
UMS.03.37.0700	UMS_Install Drain Pipe & Grout Fill Void Between Piles - Roof To Concourse Lev							
UMS.31.20.1120	UMS_Excavate to Bottom of North Concourse Slab (Intermediate Strut Level)							
UMS.03.30.1525	UMS_Form/Rebar/Pour Invert Slab For South Concourse Escalator Upper Landin							
UMS.31.20.1365	UMS_Shore Tunnel and ready for break in- Sta 132+50 To North Headwall							
UMS.31.20.0865	UMS_Excavate Bench to Mezzanine Level & Expose Wide Flange Sta 132+50 to t							
UMS.31.50.0990	UMS_Install & Preload Temporary Struts - Level 2 Sta 132+50 To North Headwall							
UMS.31.43.150	UMS_Compensation Grouting - As Required							
UMS.05.12.0885	UMS_Install Permanent Wales - Mezzanine Level Sta 132+50 To South Headwall							
UMS.31.20.0970	UMS_Excavate Bench to Temporary Strut Level 2 & Expose Wide Flange Sta 132-							
UMS.05.12.0895	UMS_Install & Pre-Load Permanent Struts - Mezzanine Level Sta 132+50 To Sou							
UMS.03.37.0875	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Mezzanine Level to T							
UMS.31.20.0975	UMS_Excavate Bench to Temporary Strut Level 2 & Expose Wide Flange Sta 132-							
UMS.31.20.1345	UMS_Remove Temporary Struts & Wales For South Concourse Escalator							
UMS.03.30.1535	UMS_Form/Rebar/Pour Walls For South Concourse Escalator Upper Landing							
UMS.03.37.0877	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 1 to							
UMS.03.37.0880	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Mezzanine Level to Tr							
UMS.31.20.0980	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50`							
UMS.05.12.1200	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To North Headwal							
UMS.05.12.1220	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To Nortl							
UMS.31.50.0995	UMS_Install & Preload Temporary Struts - Level 2 Sta 132+50 To South Headwall							
UMS.03.37.0995	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To							
UMS.03.37.0990	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 Tr							
UMS.31.20.0985	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50`							
UMS.05.12.1210	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To South Headwa							

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

- Utility work, including catch basin and sewer sleeve near Stair #1 completed on west side of 4<sup>th</sup> Street
- Street and sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Excavation to Invert level beneath Temporary Strut Level 6 is nearly complete to south headwall in Station Box
- Placement of waterproofing and 3rd of 3 mud slabs within Station Box at Invert Level is in progress
- Placement of concrete in Invert Level sections 1 to 3 of 6 is completed in the Station Box
- Preparation for Invert concrete placements 4 to 6 of 6 in Station Box is in progress
- Installation of metal stairs at Stair 1 and Stair 4 are in progress
- Placement of mechanical equipment curbs on Mezzanine is in progress

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

- Continue interior finishes on Mezzanine & Concourse Levels
- Complete excavation to Invert Level beneath Level 6 Temporary Struts in Station Box and in Headhouse
- Continue installation of mud slab, waterproofing, and protective concrete for Invert slab sections 4 through 6 within Station Box
- Continue placement of Invert Level concrete slab sections within Station Box
- Begin installation of mud slab, waterproofing, and protective concrete for Invert slab sections 7 through 9 within Headhouse
- Complete street and sidewalk restoration on west side of 4<sup>th</sup> Street south of Howard Street intersection

Activity ID	Activity Name	2017						
		Feb	Mar	Apr	May	Jun	Jul	Aug
<b>CENTRAL SUBWAY PROJECT</b>								
<b>Construction Phase</b>								
<b>Construction CN-1300</b>								
<b>Construction YBM Station P-1255</b>								
Y.1.620	Open all Traffic- 4th Street							
YBM.07.14.475	Waterproofing along Slurry Walls- Stations Invert Slab (Side Only)							
YBM.03.30.870	Place 4" Aggregate Base- Station Invert Slab							
YBM.03.30.912	Form/ Rebar - Station Invert Slab Col 02-04							
YBM.22.14.110	YBM_IV Install Trench Drains & CB's- Station Invert Slab							
YBM.34.21.0985	YBM_IV 302 - Traction Power Rm: Install - NB Traction Power Ductbank Slurry							
YBM.23.31.271	YBM_IV - Under-Platform Install -12" Dia Underground Pipe Duct Sector 1							
YBM.23.31.281	YBM_IV - Under-Platform Install - Stub-Up Underground Pipe Duct to Aux 106							
YBM.34.21.0975	YBM_IV 302 - Traction Power Rm: Install - SB Traction Power Ductbank Slurry <sup>1</sup>							
YBM.34.05.0260	YBM_PL_Install Ductbanks - NB Positive Feeder TPSS RM Penetrations to PB-0							
YBM.23.31.291	YBM_IV - Under-Platform Install -12" Dia Underground Pipe Duct Sector 2							
YBM.23.31.301	YBM_IV - Under-Platform Install - Stub-Up Underground Pipe Duct to Aux 207							
YBM.34.05.0230	YBM_PL_Install Ductbanks - SB Positive Feeder TPSS Rm Penetrations to PB-0							
YBM.03.30.880	Place 4" Mud Slab- Station Invert Slab							
YBM.07.14.890	Waterproofing top of 4" Mud Slab- Stations Invert Slab							
YBM.03.30.900	Place 2"-3" Protective Concrete- Station Invert Slab (Over Waterproofing)							
YBM.34.21.1135	YBM_IV 302 - Traction Power Rm: Install -Positive Feeder Conduit To PB01 & PB1							
YBM.03.30.910	Form/ Rebar- Station Invert Slab Col 00-02							
YBM.03.30.916	Place Concrete- Station Invert Slab Col 00-02							
YBM.26.56.190	YBM_Install: Elect: Roadway Lighting (26 56 19)							
YBM.03.30.917	Place Concrete- Station Invert Slab Col 02-04							
YBM.03.30.913	Form/ Rebar - Station Invert Slab Col 04-06							
YBM.03.30.911	Form/ Rebar - Station Invert Slab Col 06-08							
YBM.03.30.918	Place Concrete- Station Invert Slab Col 06-08							
YBM.03.30.914	Form/ Rebar - Station Invert Slab Col 08-10							
YBM.34.05.0190	YBM_UP_Install: Elect: Under Platform Raceway For Negative Feeder (Traction							
YBM.34.22.0350	YBM_UP_Install: Elect: Pull Negative Feeder Cable, Coil & Protect(Traction Pow							
YBM.03.30.919	Place Concrete- Station Invert Slab Col 08-10							
YBM.03.30.915	Form/ Rebar - Station Invert Slab Col 10-11							
YBM.03.30.921	Place Concrete- Station Invert Slab Col 10-11							
YBM.31.20.580	Excavate Headhouse to Invert Level							

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

- Continued 36" sewer installation at 4<sup>th</sup>/Brannan intersection
- Continued MRY ductbank at 4<sup>th</sup>/Townsend intersection
- Continued pavement renovation on 4<sup>th</sup> Street between King and Welsh

- Continued AWSS lateral installation on 4<sup>th</sup> Street between Welsh and Freelon
- Continued AWSS main installation at 4<sup>th</sup>/Bryant
- Continued water line installation at 4<sup>th</sup>/Townsend
- Continued 36" sewer installation at 4<sup>th</sup>/Welsh intersection
- Continued 48" sewer installation at 4<sup>th</sup>/Welsh intersection
- Continued invert slab construction at tunnel portal

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

- Continued 48" sewer installation
- Continued 36" sewer installation
- Continued MRY ductbank installation
- Continued AWSS installation
- Continued water line installation
- Continued pavement renovation
- Continued invert slab construction at tunnel portal
- Start track installation at tunnel portal
- Start track pavement and plinth construction at tunnel portal

Activity ID	Activity Name	2017						
		Feb	Mar	Apr	May	Jun	Jul	Aug
<b>CENTRAL SUBWAY PROJECT</b>								
<b>Construction Phase</b>								
<b>Construction CN-1300</b>								
<b>Construction STS P-1256</b>								
STS.33.31.420	STS_Install New CB's Manhole, 10" & 15" Sewer Piping @ 4th St/Townsend - We							
STS.34.42.1080	STS_Install: Security - SB Portal Intrusion Devices							
STS.26.05.120	STS_Install: Utilities: 230Kv Electrical Transmission Casing - Assist PG&E - 4th							
STS.26.05.2720	STS_Install: OCS System - Install OCS Poles In Portal							
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.33.51.115	STS_PG&E Design Detail Period: Utilities: Gas Distribution 6" Main/Casing - 4th							
STS.33.11.270	STS_Install: Utilities: Sewer: Casing for 10" Force Main - 4th St Sta @ Brannan S							
STS.33.11.340	STS_Install: Utilities: Track Drainage- 4th St (Brannan St To Bluxome St)							
STS.33.31.260	STS_Install New 18" Sewer Lateral In Welsh St To Future 48" Manhole							
STS.33.11.350	STS_Install: Utilities: Track Drainage- 4th St (Bluxome St To Townsend St)							
STS.33.31.250	STS_Install New Manhole, Sewer Piping & Catch Basins - East Side Welsh St/4th							
STS.33.31.400	STS_Install New 27" Sewer PipeCasing Connecting Offset Manhole To East MH @							
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.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.33.31.450	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.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 Mc							
STS.26.05.4020	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - NB Portal To M							
STS.26.05.4030	STS_Install: Tunnel Electrical - Lighting Fixtures - NB Portal To Moscone							
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							

## SCHEDULE REVISIONS

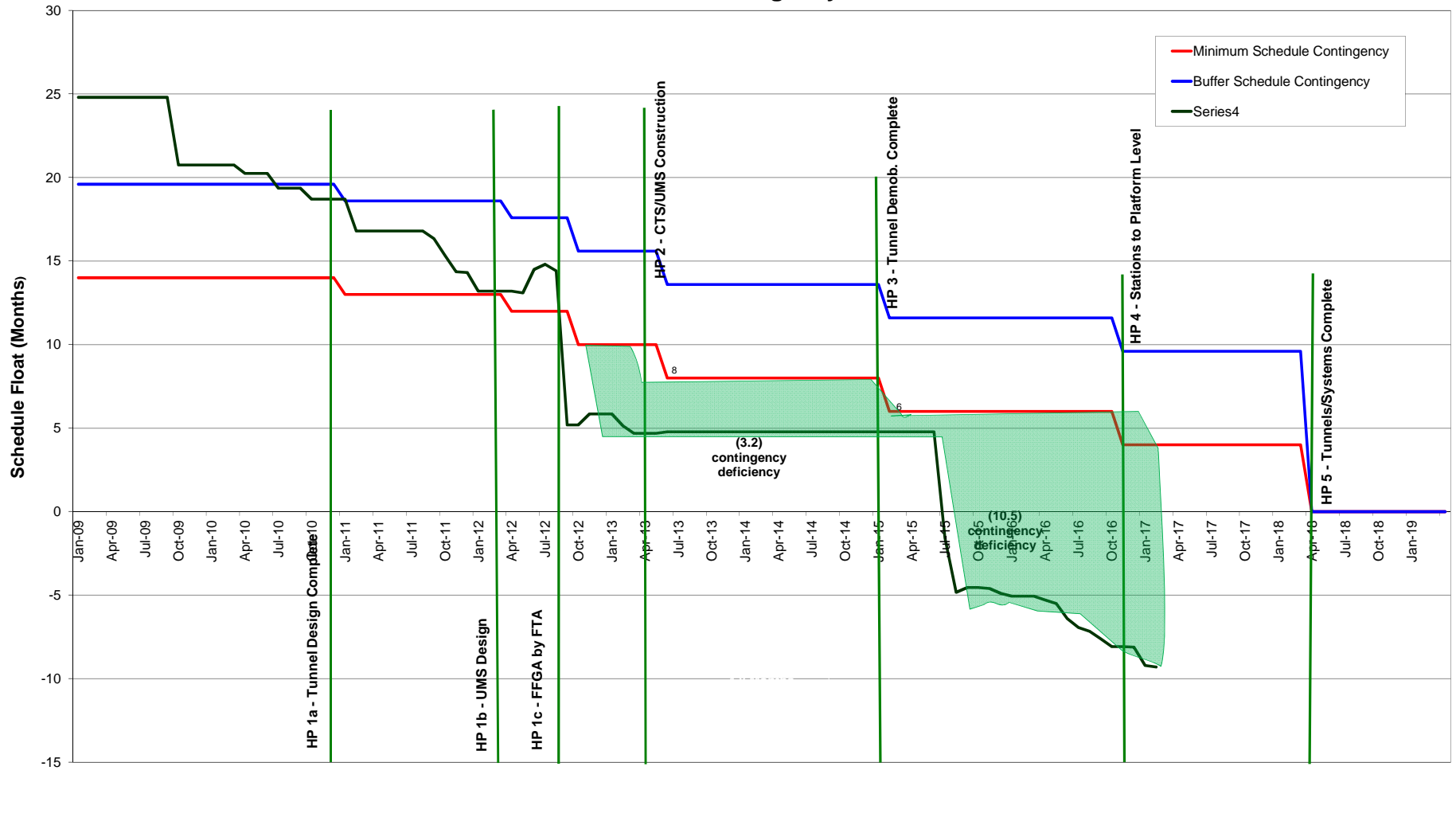
The SFMTA Contract 1300 February 2017 schedule update was added this period to the Central Subway Project Master Schedule.

## 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

February 2017



Activity ID	Activity Name	Original Duration	Start	Finish	2017				2018				2019				2020			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
<b>CENTRAL SUBWAY PROJECT</b>					CENTRAL SUBWAY PROJECT															
<b>Program Level Milestones</b>					Program Level Milestones															
PJD1000	Central Subway Project Start	0	03-Jun-03 A																	
MS0004A	Tunnel Excavation Complete - Project Milestone #4A	0		05-Sep-14 A																
MS0019	Baseline Finish Date: 12-26-2018	0		21-Oct-19*	◆ Baseline Finish Date: 12-26-2018															
MS0009	CSP Revenue Service Date	0		21-Oct-19*	◆ CSP Revenue Service Date															
<b>Preliminary Engineering Phase</b>					2661 03-Jun-03 A 07-Jan-10 A															
<b>Final Design</b>					1811 08-Jan-10 A 17-Jun-13 A															
<b>Light Rail Vehicles</b>					2168 15-Apr-13 A 22-Mar-19 Light Rail Vehicles															
<b>Real Estate</b>					3130 01-Aug-08 A 27-Feb-17 Real Estate															
<b>Construction Phase</b>					2604 04-Jan-10 A 21-Oct-19 Construction Phase															
<b>Construction Support and Costs</b>					2815 04-Jan-10 A 23-Sep-19 Construction Support and Costs															
Construction Utility Contract #1- MOS & Portal CN-1250					505 04-Jan-10 A 23-May-11 A															
Construction Utility Contract #2 - UMS CN-1251					643 12-Jan-11 A 15-Oct-12 A															
Construction Tunnels CN-1252					1470 08-Jun-11 A 28-Feb-17 Construction Tunnels CN-1252															
Construction CN-1300					1704 03-Jun-13 A 06-Aug-19 Construction CN-1300															
CN- 1300 Milestone					1600 17-Jun-13 A 06-Aug-19 CN- 1300 Milestone															
Construction UMS Station P-1253					1704 17-Jun-13 A 09-May-19 Construction UMS Station P-1253															
Construction CTS Station P-1254R					1537 17-Jun-13 A 09-May-19 Construction CTS Station P-1254R															
Construction YBM Station P-1255					1651 10-Jun-13 A 09-May-19 Construction YBM Station P-1255															
Construction STS P-1256					1586 03-Jun-13 A 17-Jul-19 Construction STS P-1256															
Project Start Up					166 08-May-19 21-Oct-19 Project Start Up															
<b>Unallocated Contingency</b>					115 08-May-19 21-Oct-19 Unallocated Contingency															
CO1.700	Cost Activity Unallocated Contingency (LOE) - 1.7.500.99.090.00 - Contingency	115	08-May-19	21-Oct-19	Cost Activity Unallocated Contingen															



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017		2018				2019				2020				2021		
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>CENTRAL SUBWAY PROJECT</b>						630	21-Nov-16 A	08-May-19	-323													
<b>Construction Phase</b>						630	21-Nov-16 A	08-May-19	-323													
<b>Construction CN-1300</b>						630	21-Nov-16 A	08-May-19	-323													
<b>Construction CTS Station P-1254R</b>						630	21-Nov-16 A	08-May-19	-323													
CTS.31.71.460	Excavate & Support Top Right Heading South Platform Cavern 176Lf	20	21-Nov-16 A	27-Feb-17	-316																	
CTS.31.71.550	Excavate & Support Top Right Bench South Platform Cavern 176Lf	10	22-Nov-16 A	09-Mar-17	-316																	
CTS.31.71.465	Excavate & Support Top Left Heading South Platform Cavern 176Lf	20	01-Dec-16 A	08-Mar-17	-316																	
CTS.31.71.560	Excavate & Support Top Left Bench South Platform Cavern 176Lf	10	02-Dec-16 A	14-Mar-17	-316																	
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	15-Mar-17	03-Apr-17	-316																	
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf	14	15-Mar-17	03-Apr-17	-316																	
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	12-Apr-17	05-May-17	-316																	
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	08-May-17	22-May-17	-316																	
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	23-May-17	06-Jun-17	-316																	
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	07-Jun-17	20-Jun-17	-316																	
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	21-Jun-17	27-Jun-17	-316																	
CTS.31.71.650	Break-in Crossover Cavern	1	28-Jun-17	28-Jun-17	-316																	
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	29-Jun-17	15-Sep-17	-316																	
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	29-Jun-17	15-Sep-17	-316																	
CTS.31.71.690	Install Ramp For Center Drift	2	02-Oct-17	03-Oct-17	-316																	
CTS.31.71.700	Excavate & Support Center Drift	35	04-Oct-17	22-Nov-17	-316																	
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	29-Nov-17	12-Dec-17	-316																	
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	13-Dec-17	21-Dec-17	-316																	
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	22-Dec-17	08-Jan-18	-316																	
CTS.31.74.700	Place Smoothing Concrete - Final Lining invert - Crossover Cavern	15	23-Jan-18	08-Feb-18	-382																	
CTS.31.74.705	Install Waterproofing - Final Lining invert - Crossover Cavern	15	09-Feb-18	26-Feb-18	-382																	
CTS.31.74.715	Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern	20	27-Feb-18	21-Mar-18	-382																	
CTS.31.74.710	Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern	6	22-Mar-18	28-Mar-18	-382																	
CTS.31.74.725	Place Concrete - Final Lining invert - Crossover Cavern	20	22-Mar-18	13-Apr-18	-382																	
CTS.31.74.960	Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern	5	29-Mar-18	03-Apr-18	-382																	
CTS.31.74.970	Install Rebar - Final Lining Invert -Cross Cut Cavern	10	04-Apr-18	14-Apr-18	-382																	
CTS.31.74.980	Place Concrete - Final Lining Invert -Cross Cut Cavern	10	16-Apr-18	26-Apr-18	-382																	
CTS.31.74.990	Install Waterproofing - Final Lining Arches - Crosscut Cavern	15	27-Apr-18	14-May-18	-382																	
CTS.31.74.10	Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern	15	03-May-18	19-May-18	-382																	
CTS.31.74.350	Shotcrete Final Lining Arches - Crosscut Cavern	20	14-May-18	05-Jun-18	-382																	
CTS.03.30.760	Shore/Rebar/Form Pour Track Slab - Crosscut Cavern	15	06-Jun-18	26-Jun-18	-316																	
CTS.03.30.780	Rebar/Form/ Pour Platforms - Crosscut Cavern	20	20-Jun-18	18-Jul-18	-316																	
CTS.03.30.770	Shore/Rebar/Form Pour Concourse Level Slab - Crosscut Cavern	15	05-Jul-18	25-Jul-18	-316																	
CTS.09.83.664	CTS_PL 05 Spray - Set Up Scaffold- Platform Level	5	26-Jul-18	01-Aug-18	-316																	
CTS.09.83.544	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster NB - Sector 2	5	02-Aug-18	08-Aug-18	-316																	
CTS.09.83.554	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster SB - Sector 2	6	09-Aug-18	16-Aug-18	-316																	
CTS.34.21.122	CTS_PL Station Platform: Install - Traction Power Box PS01 @ SB Track - Sec	3	17-Aug-18	21-Aug-18	-316																	
CTS.34.05.160	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS05 (Traction Power)	5	22-Aug-18	28-Aug-18	-316																	
CTS.34.05.170	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS07 (Traction Power)	5	29-Aug-18	05-Sep-18	-316																	
CTS.34.05.180	CTS_PL_Install:Conduit SB Positive Feeder Box PS02 to PS08 (Traction Power)	4	06-Sep-18	11-Sep-18	-316																	
CTS.03.46.980	CTS_PL Station Platform: Install - GFRC Perforated Wall Panel System SB - S	15	12-Sep-18	02-Oct-18	-316																	
CTS.03.46.164	CTS_PL Station Platform: Install - GFRC Perforated Ceiling Panels - Sector 2	15	03-Oct-18	23-Oct-18	-316																	
CTS.14.31.265	Set Escalator Trusses 1 & 2 (Concourse to Platform) - Crosscut	2	24-Oct-18	25-Oct-18	-316																	
CTS.14.31.275	CTS_PL_Assemble Components Escalator #1	14	26-Oct-18	14-Nov-18	-316																	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021			
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
CTS.14.31.415	CTS_PL Assemble Components Escalator #2	15	15-Nov-18	07-Dec-18	-316									■	CTS_PL Assemble Components Escalator #2										
CTS.09.66.616	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Flooring Sector 2	5	10-Dec-18	14-Dec-18	-316									■	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo F										
CTS.09.66.618	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Cove Base Sectc	5	17-Dec-18	21-Dec-18	-316									■	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo C										
CTS.09.66.620	CTS_PL Station Platform Cross-Cut Cavern: Grind & Polish - Terrazzo Floorin	10	24-Dec-18	08-Jan-19	-316									■	CTS_PL Station Platform Cross-Cut Cavern: Grind & Polish -										
CTS.14.24.255	CTS-PL 05: Assemble Elevator #1	15	09-Jan-19	29-Jan-19	-316									■	CTS-PL 05: Assemble Elevator #1										
CTS.14.24.265	CTS-PL 05: Assemble Elevator #2	13	30-Jan-19	15-Feb-19	-316									■	CTS-PL 05: Assemble Elevator #2										
CTS.14.24.275	CTS-PL 05: Install Elevator Power & Controls	9	18-Feb-19	28-Feb-19	-316									■	CTS-PL 05: Install Elevator Power & Controls										
CTS.08.44.265	CTS_PL Install Elevators 1 & 2 Glass Enclosure - Crosscut Platform Level	9	18-Feb-19	28-Feb-19	-316									■	CTS_PL Install Elevators 1 & 2 Glass Enclosure - Crosscu										
CTS.08.44.580	Install Elevators 1 & 2 Glass Enclosure - Crosscut Concourse Level	9	18-Feb-19	28-Feb-19	-316									■	Install Elevators 1 & 2 Glass Enclosure - Crosscut Concou										
CTS.14.24.285	CTS-PL 05: Startup & Test Elevators 1&2	4	01-Mar-19	06-Mar-19	-316									■	CTS-PL 05: Startup & Test Elevators 1&2										
CTS.14.24.295	CTS-PL 05:Inspections - Elevators 1&2	1	07-Mar-19	07-Mar-19	-316									■	CTS-PL 05:Inspections - Elevators 1&2										
CTS.01.80.00	CTS- Building Systems Start-up & Testing	44	08-Mar-19	08-May-19	-316									■	CTS- Building Systems Start-up & Testing										

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
<b>CENTRAL SUBWAY PROJECT</b>	<b>2232</b>	<b>08-Jun-11 A</b>	<b>06-Aug-19</b>																																
<b>Construction Phase</b>	<b>2232</b>	<b>08-Jun-11 A</b>	<b>06-Aug-19</b>																																
Construction Tunnels CN-1252	1799	08-Jun-11 A	15-May-15 A																																
1252 Tunnel Contract BIH	1799	08-Jun-11 A	15-May-15 A																																
Contract Milestones	1437	08-Jun-11 A	15-May-15 A																																
General Conditions	1752	01-Aug-11 A	15-May-15 A																																
4th & Bryant St TBM Launch Box Construction	686	30-Mar-12 A	02-Jun-14 A																																
Moscone Station Headwalls	430	14-May-12 A	20-Sep-13 A																																
UMS Station Headwalls	425	24-Jul-12 A	22-Nov-13 A																																
UMS - Remove Geary to Ellis OCS	5	24-Jul-12 A	26-Jul-12 A																																
UMS - Setup Traffic Control for Headwall Construction	1	30-Jul-12 A	30-Jul-12 A																																
North Headwall	237	27-Feb-13 A	22-Nov-13 A																																
South Headwall	404	31-Jul-12 A	22-Nov-13 A																																
4th St and Market Compensation Grouting	707	28-Jan-13 A	30-Apr-15 A																																
Southbound Tunneling	451	27-Apr-13 A	13-Oct-14 A																																
Ellis St Compensation Grouting	561	31-Jul-12 A	09-May-14 A																																
Green St Compensation Grouting	320	05-Aug-13 A	30-Jun-14 A																																
Retrieval Shaft	1070	31-Oct-11 A	20-Mar-15 A																																
Cross Passage 1-5	339	22-Mar-14 A	16-Apr-15 A																																
Cross Passage 1	79	14-Jun-14 A	13-Sep-14 A																																
Cross Passage 2	105	10-May-14 A	09-Sep-14 A																																
Cross Passage 3	127	31-Mar-14 A	28-Aug-14 A																																
Cross Passage 4	114	22-Mar-14 A	31-Jul-14 A																																
Cross Passage 5	277	31-May-14 A	16-Apr-15 A																																
Portal Structure	196	02-Sep-14 A	15-Apr-15 A																																
Contract Close Out	307	03-Mar-14 A	15-May-15 A																																
Construction CN-1300	1704	03-Jun-13 A	06-Aug-19																																
CN- 1300 Milestone	1600	17-Jun-13 A	06-Aug-19																																
Construction UMS Station P-1253	1704	17-Jun-13 A	09-May-19																																
Construction CTS Station P-1254R	1537	17-Jun-13 A	09-May-19																																
Construction YBM Station P-1255	1651	10-Jun-13 A	09-May-19																																
Construction STS P-1256	1586	03-Jun-13 A	17-Jul-19																																

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017		2018				2019				2020				2021			
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>CENTRAL SUBWAY PROJECT</b>						4079	01-Dec-08 A	22-Mar-20	416														
<b>Light Rail Vehicles</b>						367	29-Aug-16 A	12-Mar-18	-59														
<b>Real Estate</b>						2154	01-Dec-08 A	27-Feb-17	347														
<b>Construction Phase</b>						3794	04-Jan-10 A	22-Mar-20	416														
<b>Construction Support and Costs</b>						5314	04-Jan-10 A	22-Mar-20	582														
<b>Construction Tunnels CN-1252</b>						252	05-Sep-14 A	28-Feb-17	1410														
<b>Construction CN-1300</b>						1704	03-Sep-13 A	06-Aug-19	0														
<b>CN- 1300 Milestone</b>						90	08-May-19	06-Aug-19	-223														
<b>No 13-Disp</b>						90	08-May-19	06-Aug-19	-223														
<b>Construction UMS Station P-1253</b>						1702	03-Sep-13 A	08-May-19	64														
<b>Preconstruction</b>						1373	25-Sep-14 A	08-May-19	-323														
<b>Engineering &amp; Procurement</b>						1184	14-Oct-13 A	31-May-18	-120														
<b>Site Work / Utility Relocation</b>						58	15-Nov-18	08-Feb-19	-205														
<b>Roof Deck Excavation,Construction,Restoration</b>						330	16-Nov-15 A	20-Sep-17	476														
<b>Excavation &amp; Support</b>						408	16-Jun-16 A	26-Dec-17	-252														
UMS.31.50.0250	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)	10	16-Jun-16 A	27-Feb-17	-282																		
UMS.31.23.730	UMS_Dewatering Maintainance	213	20-Jun-16 A	24-Jul-17	-139																		
UMS.03.37.0700	UMS_Install Drain Pipe & Grout Fill Void Between Piles - Roof To Concourse Level Sta 132+50 to South Headwall	10	08-Aug-16 A	27-Feb-17	-282																		
UMS.31.20.1140	UMS_Excavation For South Concourse Escalator	2	22-Aug-16 A	28-Feb-17	-63																		
UMS.31.20.1120	UMS_Excavate to Bottom of North Concourse Slab (Intermediate Strut Level)	5	06-Sep-16 A	26-Sep-17	-236																		
UMS.03.30.1525	UMS_Form/Rebar/Pour Invert Slab For South Concourse Escalator Upper Landing	10	25-Oct-16 A	14-Mar-17	-63																		
UMS.31.20.0865	UMS_Excavate Bench to Mezzanine Level & Expose Wide Flange Sta 132+50 to South Headwall	7	29-Dec-16 A	27-Feb-17	-282																		
UMS.31.50.0990	UMS_Install & Preload Temporary Struts - Level 2 Sta 132+50 To North Headwall	10	17-Feb-17 A	04-Apr-17	-271																		
UMS.31.43.150	UMS_Compensation Grouting - As Required	10	27-Feb-17	10-Mar-17	-102																		
UMS.05.12.0885	UMS_Install Permanent Wales - Mezzanine Level Sta 132+50 To South Headwall	11	27-Feb-17	13-Mar-17	-282																		
UMS.31.20.0970	UMS_Excavate Bench to Temporary Strut Level 2 & Expose Wide Flange Sta 132+50 To North Headwall	6	28-Feb-17	07-Mar-17	-271																		
UMS.05.12.0895	UMS_Install & Pre-Load Permanent Struts - Mezzanine Level Sta 132+50 To South Headwall	11	06-Mar-17	20-Mar-17	-282																		
UMS.03.37.0875	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Mezzanine Level to Temp Strut Level 2 Sta 132+50 To North Headwall	10	08-Mar-17	21-Mar-17	-271																		
UMS.31.20.0975	UMS_Excavate Bench to Temporary Strut Level 2 & Expose Wide Flange Sta 132+50 To South Headwall	8	13-Mar-17	22-Mar-17	-274																		
UMS.31.20.1345	UMS_Remove Temporary Struts & Wales For South Concourse Escalator	3	15-Mar-17	17-Mar-17	-63																		
UMS.03.30.1535	UMS_Form/Rebar/Pour Walls For South Concourse Escalator Upper Landing	10	20-Mar-17	31-Mar-17	-63																		
UMS.03.37.0877	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 1 to Mezzanine Sta 132+50 To South Headwall	10	21-Mar-17	03-Apr-17	-282																		
UMS.03.37.0880	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Mezzanine Level to Temp Strut Level 2 Sta 132+50 To South Headwall	10	04-Apr-17	17-Apr-17	-282																		
UMS.31.20.0980	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50 To North Headwall	8	05-Apr-17	14-Apr-17	-271																		
UMS.05.12.1200	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To North Headwall	10	11-Apr-17	24-Apr-17	-270																		
UMS.05.12.1220	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To North Headwall	10	17-Apr-17	28-Apr-17	-270																		
UMS.31.50.0995	UMS_Install & Preload Temporary Struts - Level 2 Sta 132+50 To South Headwall	10	18-Apr-17	01-May-17	-282																		
UMS.03.37.0995	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To Platform Strut Level Sta 132+50 To South Headwall	10	18-Apr-17	01-May-17	-238																		
UMS.03.37.0990	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To Platform Strut Level Sta 132+50 To North Headwall	10	01-May-17	12-May-17	-264																		
UMS.31.20.0985	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50 To South Headwall	8	02-May-17	11-May-17	-282																		
UMS.05.12.1210	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To South Headwall	10	08-May-17	19-May-17	-282																		
UMS.05.12.1230	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To South Headwall	10	10-May-17	23-May-17	-282																		
UMS.31.20.1030	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange Sta 132+50 To North Headwall	10	12-May-17	25-May-17	-279																		
UMS.31.50.1050	UMS_Install Temporary Struts - Level 3 Sta 132+50 To North Headwall	10	19-May-17	02-Jun-17	-274																		
UMS.31.20.1040	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange Sta 132+50 To South Headwall	10	24-May-17	07-Jun-17	-282																		
UMS.03.37.1020	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platform Strut Level To Temp Strut Level 3 Sta 132+50 To North Headwall	10	26-May-17	09-Jun-17	-273																		
UMS.31.20.1060	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To North Headwall	3	08-Jun-17	12-Jun-17	-282																		
UMS.31.50.1220	UMS_Install Temporary Struts - Level 3 Sta 132+50 To South Headwall	10	08-Jun-17	21-Jun-17	-277																		
UMS.03.37.1030	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platform Strut Level To Temp Strut Level 3 Sta 132+50 To South Headwall	10	08-Jun-17	21-Jun-17	-264																		

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017		2018				2019				2020				2021		
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
UMS.05.12.2130	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To West Side Piles - Sta 132+50	15	19-Jun-17	10-Jul-17	-286																	
UMS.05.12.1360	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To East Side Piles - Sta 132+50 To North Headwall	15	19-Jun-17	10-Jul-17	-286																	
UMS.31.20.1130	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To South Headwall	3	22-Jun-17	26-Jun-17	-277																	
UMS.03.37.1040	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 3 To Invert Sta 132+50 To North Headwall	10	26-Jun-17	10-Jul-17	-283																	
UMS.05.12.1370	UMS_Attach 40 ea Platform Level Slab Stub Beam Assemblies To West Side Piles - Sta 132+50 To South Headwall	10	11-Jul-17	24-Jul-17	-286																	
UMS.05.12.1365	UMS_Attach 40 ea Platform Level Slab Stub Beam Assemblies To East Side Piles - Sta 132+50 To South Headwall	10	11-Jul-17	24-Jul-17	-286																	
UMS.03.37.1050	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 3 To Invert Sta 132+50 To South Headwall	10	18-Jul-17	31-Jul-17	-281																	
UMS.31.41.0205	UMS_Install Sheet Piling at Garage Base Slab	10	06-Sep-17	19-Sep-17	-274																	
UMS.31.20.1355	UMS_Excavate HVAC Chase Beneath North Concourse Slab (Intermediate Strut Level)	5	27-Sep-17	03-Oct-17	-236																	
UMS.05.12.2250	UMS_Install W-Section Piles Reinforcement - (Intermediate Strut Level)	10	04-Oct-17	17-Oct-17	-223																	
UMS.31.20.0260	UMS_Excavate to Intermediate Level In Garage	5	19-Dec-17	26-Dec-17	-273																	
<b>Concrete/Shotcrete</b>		<b>576</b>	<b>03-Feb-16 A</b>	<b>07-Aug-18</b>	<b>-135</b>																	
<b>Structural Steel</b>		<b>248</b>	<b>25-Jul-17</b>	<b>17-Jul-18</b>	<b>-264</b>																	
<b>Masonry</b>		<b>300</b>	<b>29-Jun-17</b>	<b>05-Sep-18</b>	<b>-230</b>																	
<b>Mechanical</b>		<b>378</b>	<b>29-Jun-17</b>	<b>27-Dec-18</b>	<b>-243</b>																	
<b>Electrical</b>		<b>456</b>	<b>14-Jul-17</b>	<b>12-Apr-19</b>	<b>-305</b>																	
<b>Electrical - Transportation</b>		<b>348</b>	<b>21-Jul-17</b>	<b>05-Dec-18</b>	<b>-239</b>																	
<b>Architectural Finishes</b>		<b>427</b>	<b>15-Jun-17</b>	<b>01-Feb-19</b>	<b>-269</b>																	
<b>Conveyances</b>		<b>243</b>	<b>11-Jan-18</b>	<b>24-Dec-18</b>	<b>-221</b>																	
<b>Stairs</b>		<b>430</b>	<b>18-Apr-17</b>	<b>28-Dec-18</b>	<b>-238</b>																	
<b>Startup &amp; Testing</b>		<b>61</b>	<b>04-Jan-19</b>	<b>29-Mar-19</b>	<b>-298</b>																	
UMS.01.80.9900	UMS- Building Systems Start-up & Testing	61	04-Jan-19	29-Mar-19	-298																	
<b>No 13-Disp</b>		<b>1587</b>	<b>03-Sep-13 A</b>	<b>08-May-19</b>	<b>64</b>																	
<b>Construction CTS Station P-1254R</b>		<b>1457</b>	<b>23-Dec-13 A</b>	<b>09-May-19</b>	<b>63</b>																	
<b>Preconstruction</b>		<b>15</b>	<b>16-Jan-18</b>	<b>05-Feb-18</b>	<b>4</b>																	
<b>Site Work / Utility Relocation</b>		<b>496</b>	<b>27-Feb-17</b>	<b>11-Feb-19</b>	<b>124</b>																	
<b>Excavation &amp; Support</b>		<b>584</b>	<b>12-Jun-16 A</b>	<b>17-Sep-18</b>	<b>-153</b>																	
CTS.31.43.140	CTS_Compensation Grouting - As Required	10	12-Jun-16 A	22-Mar-17	224																	
CTS.31.50.330	Install Temp Level 6 Struts & Wales & Preload	10	22-Dec-17	08-Jan-18	-311																	
CTS.31.20.335	Excavate to 3' Below Level 7 Struts EL -7.5 Col 4.0-11.0	15	27-Dec-17	17-Jan-18	-311																	
CTS.31.50.370	Install Temp Level 7 Struts & Wales & Preload	10	05-Jan-18	18-Jan-18	-311																	
CTS.31.20.380	Excavate Headhouse to Invert Slab EL -18.67	12	19-Jan-18	05-Feb-18	-311																	
CTS.31.50.070	Remove Level 6 & 7 Struts & Wales	5	24-Apr-18	30-Apr-18	-306																	
CTS.31.50.110	CTS_CN Remove Level 5 Struts & Wales	5	24-Apr-18	30-Apr-18	-311																	
CTS.31.50.150	CTS_CN Remove Level 4 Struts & Wales	5	13-Jun-18	19-Jun-18	-271																	
CTS.31.50.195	Remove Level 3 Struts & Wales	5	09-Aug-18	15-Aug-18	-306																	
CTS.31.50.235	Remove Level 2 Struts & Wales	5	16-Aug-18	22-Aug-18	-297																	
CTS.31.50.240	Remove Level 1 Struts & Wales	5	11-Sep-18	17-Sep-18	-307																	
<b>Tunnel / Cavern Mining</b>		<b>273</b>	<b>08-Nov-16 A</b>	<b>08-Jan-18</b>	<b>-173</b>																	
CTS.31.71.420	BreakinTop / Bench Sidewalls for North Platform Cavern Excavation	12	08-Nov-16 A	06-Mar-17	-115																	
CTS.31.71.460	Excavate & Support Top Right Heading South Platform Cavern 176Lf	20	21-Nov-16 A	27-Feb-17	-316																	
CTS.31.71.435	CompleteTop / Bench Invert Sidewalls & Headwall Right Side for North Platform Cavern Excavation	33	21-Nov-16 A	30-Mar-17	-115																	
CTS.31.71.550	Excavate & Support Top Right Bench South Platform Cavern 176Lf	10	22-Nov-16 A	09-Mar-17	-316																	
CTS.31.71.465	Excavate & Support Top Left Heading South Platform Cavern 176Lf	20	01-Dec-16 A	08-Mar-17	-316																	
CTS.31.71.560	Excavate & Support Top Left Bench South Platform Cavern 176Lf	10	02-Dec-16 A	14-Mar-17	-316																	
CTS.31.71.425	CompleteTop / Bench Invert Sidewalls & Headwall Left Side for North Platform Cavern Excavation	33	11-Jan-17 A	29-Mar-17	-115																	
CTS.31.71.520	Initial Excavation & Support - South Emergency Egress Tunnel	10	06-Mar-17	20-Mar-17	25																	
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	15-Mar-17	03-Apr-17	-316																	
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf	14	15-Mar-17	03-Apr-17	-316																	
CTS.31.71.530	Complete Excavation & Support - South Emergency Egress Tunnel	5	20-Mar-17	27-Mar-17	25																	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CTS.31.71.455	Excavation / Support Top Center Drift & Construct Headwall for North Platform Cavern Excavation	13	05-Apr-17	24-Apr-17	-115																		
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	12-Apr-17	05-May-17	-316																		
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	08-May-17	22-May-17	-316																		
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	23-May-17	06-Jun-17	-316																		
CTS.31.71.475	Excavation / Support Center Bench Invert & Construct Headwall for North Platform Cavern Excavation	9	07-Jun-17	19-Jun-17	-146																		
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	07-Jun-17	20-Jun-17	-316																		
CTS.31.71.485	Demo Sidewall, Repair Headwall for North Platform Cavern Excavation	10	20-Jun-17	03-Jul-17	-146																		
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	21-Jun-17	27-Jun-17	-316																		
CTS.31.71.650	Break-in Crossover Cavern	1	28-Jun-17	28-Jun-17	-316																		
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	29-Jun-17	15-Sep-17	-316																		
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	29-Jun-17	15-Sep-17	-316																		
CTS.31.71.800	TB-4 SEM Additional Flashcrete	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.810	TB-5 SEM Additional Shotcrete	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.820	TB-6 SEM Additional Lattice Girders	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.830	TB-7 SEM Additional Steel Arches	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.840	TB-8 SEM Additional Face Bolts	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.850	TB-9 SEM Additional Metal Sheets	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.860	TB-10 SEM Additional Probe Holes	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.870	TB-11 SEM Additional Grout Holes	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.880	TB-12 SEM Additional Permeation Grouting	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.890	TB-13 SEM Additional Pocket Excavation	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.900	TB-14 SEM Additional Drilled Gravity Dewatering Pipes/ Gravity Well Points	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.910	TB-15 SEM Additional Vacuum Well Points	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.780	TB-2 SEM Additional Grouted Pipe Spiles	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.790	TB-3 SEM Additional Barrel Vault Pipes	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.770	TB-1 SEM Additional Rebar Spiles	30	24-Jul-17	01-Sep-17	-180																		
CTS.31.71.690	Install Ramp For Center Drift	2	02-Oct-17	03-Oct-17	-316																		
CTS.31.71.700	Excavate & Support Center Drift	35	04-Oct-17	22-Nov-17	-316																		
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	29-Nov-17	12-Dec-17	-316																		
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	13-Dec-17	21-Dec-17	-316																		
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	22-Dec-17	08-Jan-18	-316																		
<b>Cavern Lining</b>		350	27-Mar-17	28-Jul-18	-294																		
<b>Concrete/Shotcrete</b>		414	16-Jun-17	16-Jan-19	-289																		
<b>Structural Steel</b>		102	20-Aug-18	15-Jan-19	-291																		
<b>Masonry</b>		102	06-Jun-18	29-Oct-18	-279																		
<b>Mechanical</b>		183	23-May-18	01-Feb-19	-301																		
<b>Misc Metal</b>		180	23-May-18	07-Feb-19	-296																		
<b>Electrical</b>		190	04-Jun-18	22-Feb-19	-306																		
<b>Electrical - Transportation</b>		78	02-Aug-18	20-Nov-18	-283																		
<b>Architectural Finishes</b>		259	20-Feb-18	26-Feb-19	-265																		
<b>Conveyances</b>		98	23-Oct-18	07-Mar-19	-325																		
<b>Startup &amp; Testing</b>		44	08-Mar-19	08-May-19	-316																		
<b>No 13-Disp</b>		1457	23-Dec-13 A	09-May-19	63																		
<b>Construction YBM Station P-1255</b>		1591	10-Jan-14 A	08-May-19	64																		
<b>Preconstruction</b>		15	16-Jan-18	05-Feb-18	4																		
<b>Excavation &amp; Support</b>		546	25-Apr-16 A	12-Sep-18	-178																		
Y.1.620	Open all Traffic- 4th Street	1	25-Apr-16 A	13-Jul-17	120																		
YBM.31.20.580	Excavate Headhouse to Invert Level	12	02-Jun-17	19-Jun-17	-261																		
YBM.31.50.111	Remove Level 6 Struts (Station and Headhouse)	10	12-Sep-17	25-Sep-17	-261																		
YBM.31.50.121	Remove Headhouse Level 4 Struts	10	22-Nov-17	07-Dec-17	-244																		

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
YBM.31.50.131	Remove Headhouse Level 2 Struts GL 05-08	5	16-Feb-18	22-Feb-18	-244																		
YBM.31.50.141	Remove Headhouse Level 2 Struts GL 08-11	5	19-Mar-18	23-Mar-18	-233																		
YBM.31.20.510	Demo Stair #4 opening/ Excavate to Stair #4 invert Level	10	30-May-18	12-Jun-18	-170																		
YBM.31.20.520	Backfill Stair #4 to Surface Level	10	29-Aug-18	12-Sep-18	-190																		
<b>Concrete/Shotcrete</b>		442	14-Nov-16 A	18-Sep-18	-169																		
<b>Mechanical</b>		5	15-Jan-18	19-Jan-18	-74																		
<b>Electrical</b>		396	02-Mar-17	06-Sep-18	-215																		
<b>Electrical - Transportation</b>		349	27-Feb-17	28-Jun-18	-165																		
<b>Conveyances</b>		219	14-Dec-17	23-Oct-18	-240																		
<b>Startup &amp; Testing</b>		61	28-Nov-18	22-Feb-19	-263																		
Y.4.545	YBM- Building Systems Start-up & Testing	61	28-Nov-18	22-Feb-19	-263																		
<b>No 13-Disp</b>		1591	10-Jan-14 A	08-May-19	64																		
<b>Construction STS P-1256</b>		1541	24-Feb-14 A	17-Jul-19	14																		
<b>Preconstruction</b>		15	16-Jan-18	05-Feb-18	4																		
<b>Site Work / Utility Relocation</b>		166	24-Oct-16 A	14-Jul-17	-185																		
<b>Concrete/Shotcrete</b>		70	17-Jul-17	23-Oct-17	29																		
<b>Tunnel Concrete</b>		384	18-Apr-16 A	19-Sep-18	-170																		
<b>Structural Steel</b>		15	04-Jan-18	24-Jan-18	-161																		
<b>Electrical</b>		152	30-Apr-18	04-Dec-18	-251																		
<b>Electrical - Transportation</b>		22	07-Aug-18	05-Sep-18	-258																		
<b>Trackwork</b>		433	14-Nov-16 A	26-Nov-18	-221																		
<b>Track System Work</b>		1157	25-Apr-15 A	17-Jul-19	-299																		
STS.34.42.2560	ATSC Systems- Intermediate Design	90	25-Apr-15 A	03-Mar-17	-296																		
STS.34.42.2570	ATSC Systems- Final Design	90	25-Sep-15 A	24-Apr-17	-296																		
STS.34.42.2580	ATSC Systems- Factory Acceptance Test Complete	90	16-May-16 A	01-Jun-17	-296																		
STS.34.42.2590	ATSC Systems- Hardware Equipment Procurement	120	01-Jun-17	21-Nov-17	-296																		
STS.34.42.2600	ATSC Systems- Deliver Hardware	119	21-Nov-17	11-May-18	-296																		
STS.34.42.2610	ATSC Systems- Installation, Software Testing	147	11-May-18	11-Dec-18	-296																		
STS.34.42.2630	ATSC Systems- Substantial Completion	5	26-Apr-19	02-May-19	-299																		
STS.34.42.2640	ATSC Systems- Final Acceptance	50	03-May-19	15-Jul-19	-299																		
STS.34.42.2620	ATSC Systems- Rest of Allowance	2	16-Jul-19	17-Jul-19	-299																		
<b>Startup &amp; Testing</b>		80	04-Jan-19	25-Apr-19	-311																		
<b>No 13-Disp</b>		1488	24-Feb-14 A	08-May-19	64																		
<b>Unallocated Contingency</b>		115	08-May-19	21-Oct-19	-207																		

## *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 4<sup>th</sup> 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%
<b>Total</b>	<b>\$648.460</b>	<b>\$1,588.000</b>	<b>\$2,236.460</b>	<b>100.0%</b>

*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:

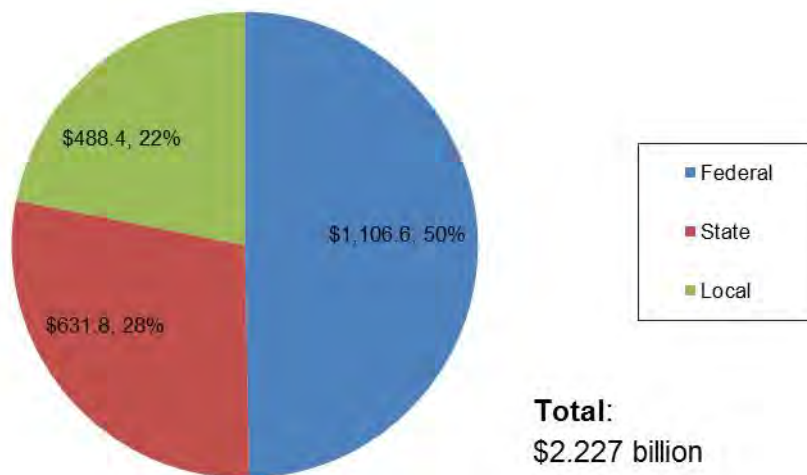
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

## 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.

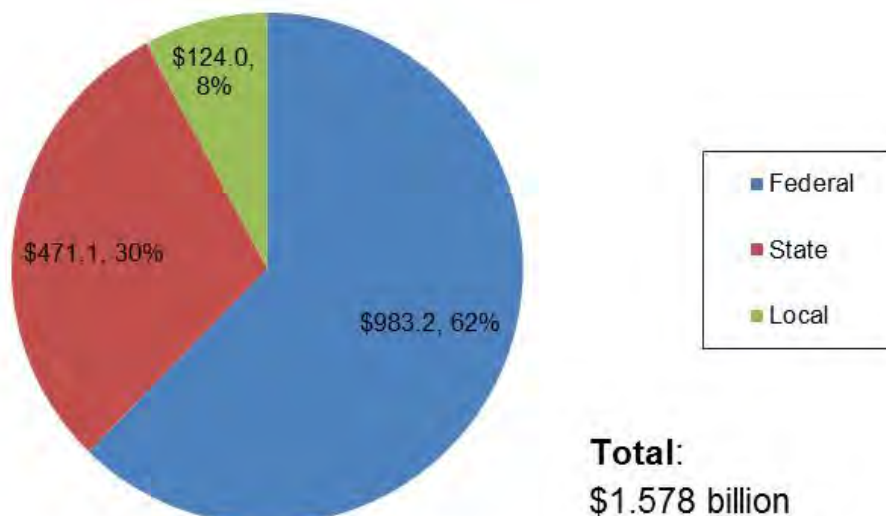
### Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2  
(\$ in millions)



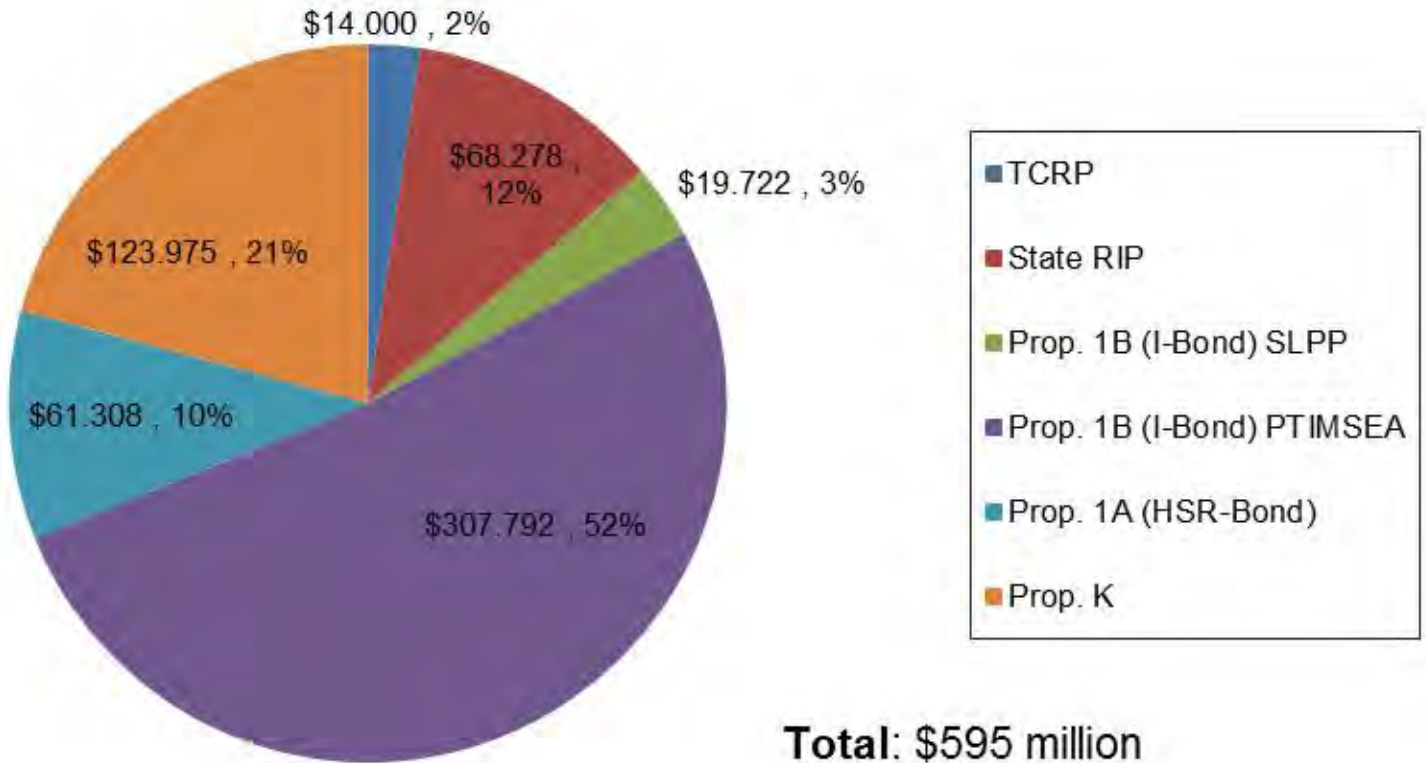
### Central Subway Project Funding

Phase 2  
(\$ in millions)



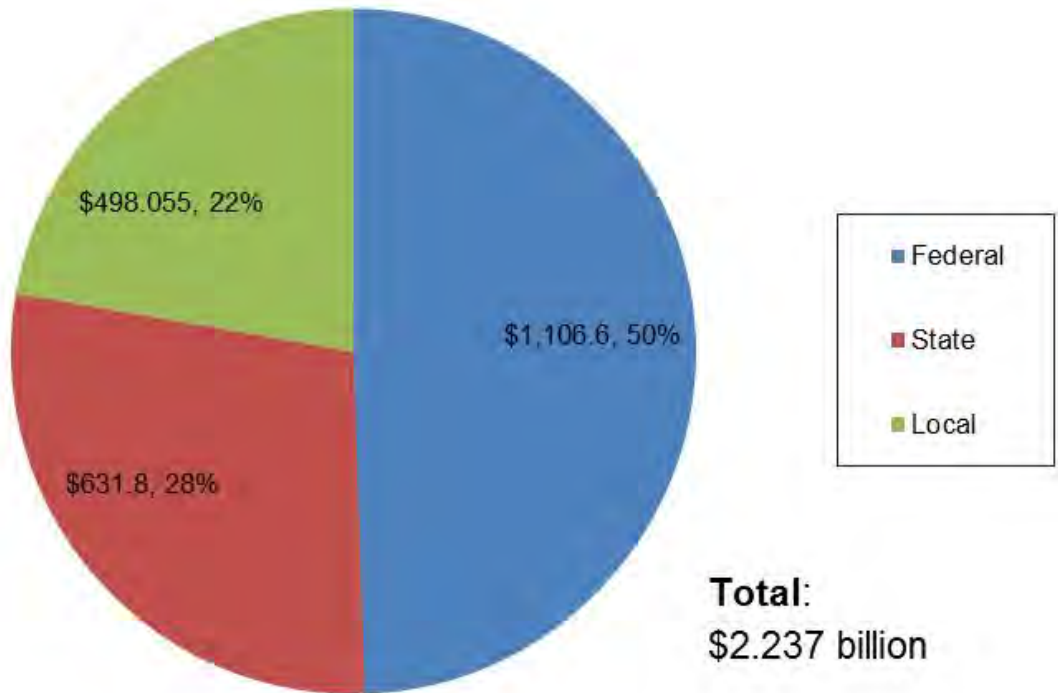
# State and Local Funding

Phase 2  
(\$ in millions)



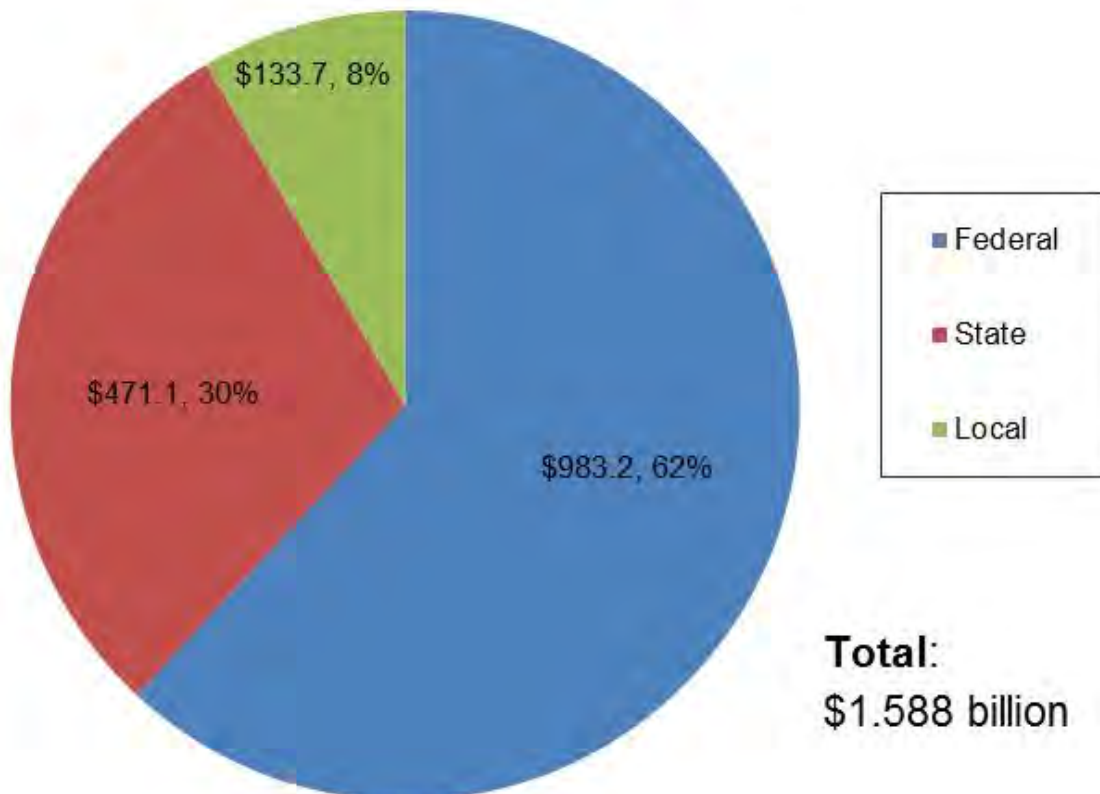
## Third Street Light Rail Transit Project Funding

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

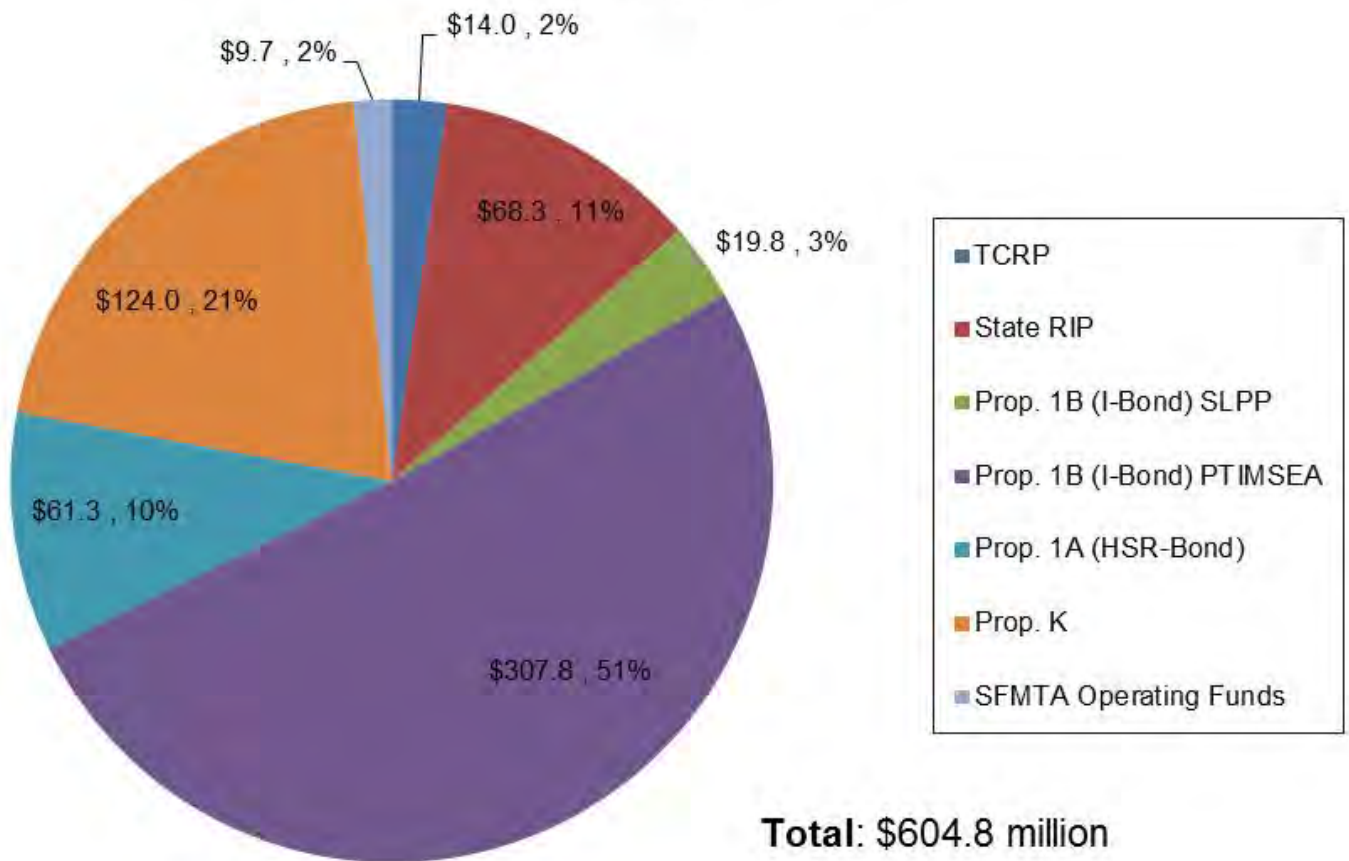


## Central Subway Project Funding

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
<b>Budget Impact (Underrun)</b>	<b>(\$1,534,585)</b>

## Contract Details

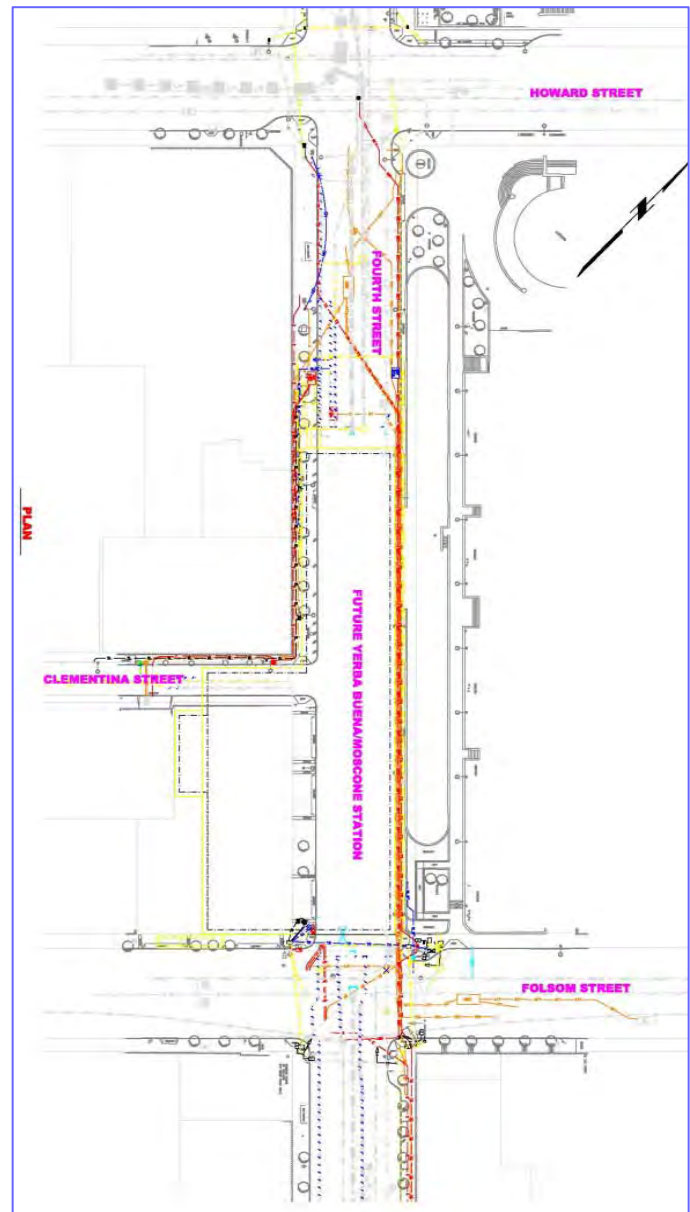
<b>Contract Awarded:</b>	November 17, 2009
<b>Notice to Proceed:</b>	January 4, 2010
<b>Substantial Completion:</b>	June 23, 2011
<b>Contract Award Value:</b>	\$ 9,273,939
<b>Modifications Final :</b>	\$ 2,694,211
<b>Final Contract Value:</b>	\$11,968,150

## 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
<b>Budget Impact (Underrun)</b>	<b>(\$9,023,678)</b>

## Contract Details

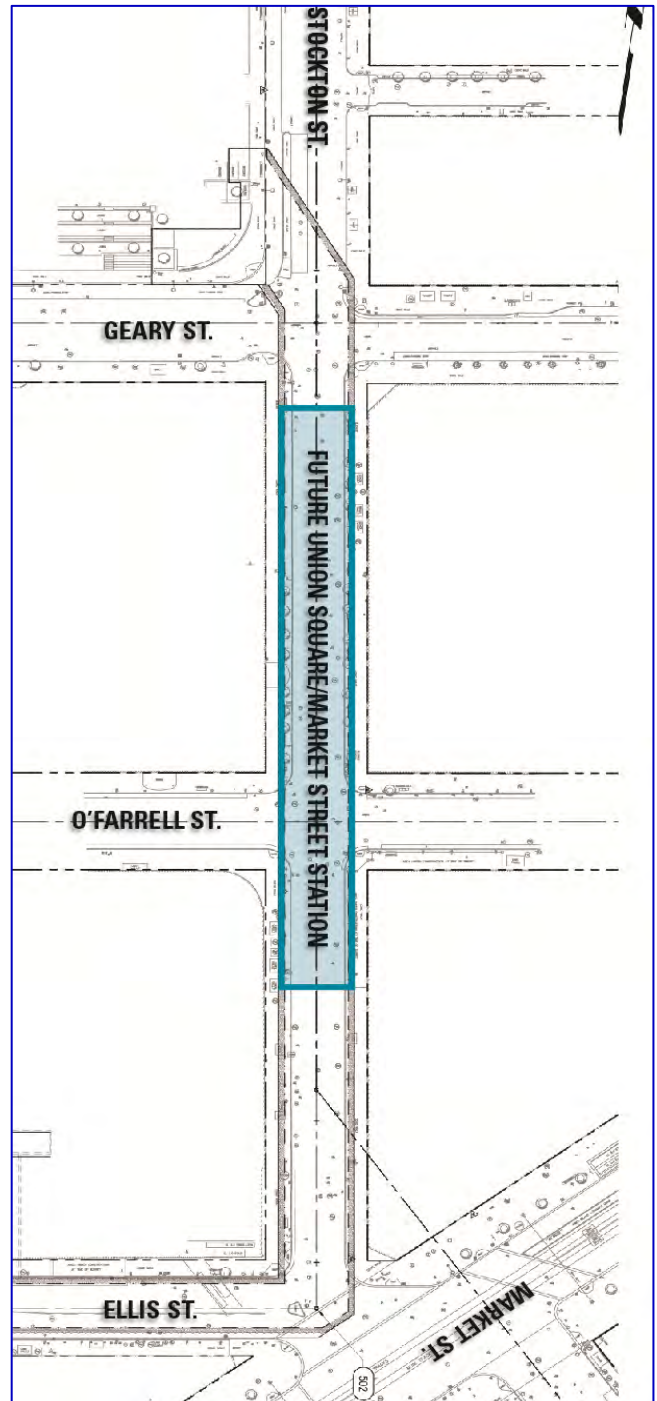
Contract Awarded:	December 7, 2010
Notice to Proceed:	January 12, 2011
Substantial Completion:	August 16, 2012
Contract Award Value:	\$16,832,550
Modifications Final:	\$3,962,031
Final Contract Value:	\$20,794,581

## 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.
- Completed administrative closeout in June 2016.

Budget/Expenditures	
Category	Amount
Current Budget	\$648,976
Expenditures to Date	\$648,976

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:	\$149,981
Current Contract Value:	\$648,976



# 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
<b>Expenditures to Date</b>	<b>\$233,793,900</b>

Contract Details	
<b>Contract Awarded:</b>	<b>June 28, 2011</b>
<b>Notice to Proceed 1:</b>	<b>January 27, 2012</b>
<b>Notice to Proceed 2:</b>	<b>March 14, 2012</b>
<b>Partial NTP 3:</b>	<b>April 12, 2012</b>
<b>Notice to Proceed 3:</b>	<b>October 15, 2012</b>
<b>Substantial Completion:</b>	<b>April 13, 2015</b>
<b>Contract Award Value:</b>	<b>\$233,584,015</b>
<b>Modifications to Date:</b>	<b>\$7,935,848</b>
<b>Current Contract Value:</b>	<b>\$241,519,863</b>



## *Appendix E*

### **SBE PARTICIPATION**

Quarterly Report

Current Report: October 2016 – December 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 December 31, 2016.<sup>1</sup>

**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.

**Appendix E - Monthly Progress Report - Reported Quarterly in 2016**  
**CS Program SBE Summary Table for Professional Services and Construction Contracts**

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)	
<b>A Project Professional Services Contracts</b>			<i>millions</i>			<i>millions</i>				
1	149	CS Partnership	Project Management	\$85.14	30%	\$58.54	39.7%	\$25.54	\$23.25	31.4%
2	156	Hill International	Project Controls Task 1	\$17.11	26%	\$9.60	28.9%	\$4.45	\$2.77	26.0%
3	155-1	PB Telemon	Tunnels Design	\$7.94	30%	\$7.89	29.7%	\$2.38	\$2.34	31.6%
4	155-2	CS Design Group	Stations Design	\$36.52	30%	\$35.21	37.5%	\$10.96	\$13.20	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$17.23	30%	\$25.83	26.8%	\$5.17	\$6.92	30.0%
<b>Subtotal Professional Services</b>				<b>\$163.94</b>		<b>\$137.07</b>		<b>\$48.50</b>	<b>\$48.49</b>	
<b>B Project Construction Contracts</b>			<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%	234.88	5.8%	\$14.48	\$13.58	6.1%
4	1277	MH Construction	Pagoda Demolition	\$0.65	100%	\$0.65	100.0%	\$0.65	\$0.65	100.0%
5	1300	Tutor-Perini	Stations/Track/Systems - in Construction	842.94	20%	\$448.22	19.7%	\$168.59	\$88.39	25.5%
<b>Subtotal Construction Contracts</b>				<b>\$1,117.64</b>		<b>\$716.52</b>		<b>\$190.27</b>	<b>\$132.43</b>	
<b>Contract</b>	<b>Contractor</b>	<b>Services/Segment</b>	<b>Base Contract</b>	<b>SFMTA Goal</b>	<b>Expenditures</b>	<b>SBE Actual</b>	<b>= A * B</b>	<b>= C * D</b>	<b>Bid Goal</b>	
			<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	

**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

<sup>1</sup> 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”).

Applications and Contractor's monthly submittals that may include the current estimated accruals. The BIH SBE percent is from the contractor's progress payment #39, Form 6.

- 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 29.0% 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 #36, December 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: 12/31/2016

<b>Contract:</b>	<b>Project Management and Construction management</b>	
<b>Contract No.</b>	<b>CS-149 Central Subway Partnership*</b>	
<b>Status:</b>	On-going	
	Base Contract Value	\$85,139,092
	Approved Change Orders	-0-
	Current Contract Value	\$85,139,092
	Expended to Date (est.)	\$58,536,776
	% Expended	68.8%
	SBE Participation	39.7%

<b>Contract:</b>	<b>Project Controls Cost and Schedule Support</b>	
<b>Contract No.</b>	<b>CS 156 Hill International Task 1*</b>	
<b>Status:</b>	On-going	
	Base Contract Value	\$17,112,873
	Approved Change Orders	-0-
	Current Contract Value	\$17,112,873
	Expended to Date (est.)	\$9,602,526
	% Expended	56.1%
	SBE Participation	28.9%

<b>Contract:</b>	<b>Design Package 1 for CNs 1250, 1251 and 1252 Tunnels</b>	
<b>Contract No.</b>	<b>CS-155-1 PB / Telemon*</b>	
<b>Status:</b>	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.)	\$7,887,101
	% Expended	99.3%
	SBE Participation	29.7%

<b>Contract:</b>	<b>Design Package 2 for 1253 UMS, 1254 CTS, 1255 YBM Stations.</b>	
<b>Contract No.</b>	<b>CS-155-2 Central Subway Design Group*</b>	
<b>Status:</b>	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.)	\$35,207,277
	% Expended	96.4%
	SBE Participation	37.5%

<b>Contract:</b>	<b>DP 3 Systems, Track work, Surface station.</b>	
<b>Contract No.</b>	<b>CS-155-3 HNTB-B&amp;C*</b>	
<b>Status:</b>	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.)	\$25,832,169
	% Expended	149.9%
	SBE Participation	26.8%

\* denote accrual

### Active and Completed Construction Contracts - SBE Participation Details

		<i>Data as of:</i>	12/31/2016
<b>Contract:</b>	<b>Synergy Inc Utility Relocation 1 YBM &amp; Launch Box</b>		
<b>Contract No.</b>	<b>1250</b>		
<b>Status:</b>	<b>Contract is completed and closed out</b>		
	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%
<b>Contract:</b>	<b>Synergy Inc Utility Relocation 2 UMS</b>		
<b>Contract No.</b>	<b>1251</b>		
<b>Status:</b>	<b>Contract is completed and closed out</b>		
	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%
<b>Contract:</b>	<b>Pagoda Palace Demolition / MH Construction</b>		
<b>Contract No.</b>	<b>1277</b>		
<b>Status:</b>	<b>Contract is completed and closed out</b>		
	Base Contract Value		\$498,995
	Approved Change Orders		\$149,981
	Current Contract Value		\$648,976
	Expended to Date (est.)		\$648,976
	% Expended		100.00%
	SBE SFMTA Goal		100.0%
	SBE Participation To Date		100.0%
<b>Contract:</b>	<b>Tunnels Barnard/Impregilo/Haley</b>		
<b>Contract No.</b>	<b>1252</b>		
<b>Status:</b>	Construction is underway and ongoing		
	Base Contract Value		\$233,584,015
	Approved Change Orders		\$8,255,506
	Current Contract Value		\$241,839,521
	Expended to Date (est.)		\$234,881,397
	% Expended		97.1%
	SBE SFMTA Goal		6.0%
	SBE Participation To Date		5.8%
<b>Contract:</b>	<b>Stations and Systems / Tutor Perini</b>		
<b>Contract No.</b>	<b>1300</b>		
<b>Status:</b>	Construction is underway and ongoing		
	Base Contract Value		\$839,676,400
	Approved Change Orders		\$4,818,396
	Current Contract Value		\$844,494,796
	Expended to Date (est.)		\$448,222,878
	% Expended		53.1%
	SBE SFMTA Goal		20.0%
	SBE Participation To Date		19.7%

*Photos on the next page:*

In December 2016, Winter Walk was again erected following the tremendous success of past years. Off the Grid food trucks were present offering a wide array of culinary delights and seating was provided for tired shoppers. Winter Walk's pedestrian plaza was set up on Stockton Street between Geary and Ellis.



# central subway

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