

## Transmittal

CS Transmittal No. 2606

<b>To:</b> Bernardo Bustamante Federal Transit Administration San Francisco Federal Building 90 7th Street, Suite 15-300 San Francisco, CA 94103-6701	<b>From:</b> Nadeem Tahir M544.1, CSP
<b>Date:</b> January 26, 2021	<b>Project No./Contract No.:</b> M544.1, CSP
	<b>Task No./Title:</b> Cost/Schedule Management
	<b>Project Phase:</b> Construction
	<b>Subject:</b> Monthly Progress Report December 2020

<b>Sent via:</b>	<input type="checkbox"/> mail	<input type="checkbox"/> overnight	<input type="checkbox"/> messenger	<input type="checkbox"/> hand-delivered
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Item No.	Copies	Description	Rev. No.	Date
1	1	Monthly Progress Report (December 2020)	1	1/26/2021

*If enclosures are not as noted, kindly notify us at once.*

**Remarks:** This Monthly Progress Report includes cost and schedule details as appendices.

*Nadeem Tahir*

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CS File No. M544.1.5.0340.b

# central subway

## Coming Together

Moving forward with progress across all stations



## Progress Report

December 2020



SFMTA

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**Cover photo: Street view of the surface station at CTS**

**Above photo: The floors at the Union Square station are covered up to prevent damage to the finished layer.**

**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.centralsubwaysf.com/>**



*Signage in place at the 4th and Brannan station*

## Executive Summary

**Coronavirus Pandemic (COVID 19)** - Coronavirus Pandemic (COVID 19) Update - On March 17, 2020, the Mayor and the City's Health Office issued a Public Health Order to "Shelter-In Place" in response to the COVID-19 pandemic. While the City continues to observe restrictions from the City's Health Officer, the City has reissued "Shelter-In-Place" order in response to the increasing cases of infection. Construction of the Central Subway project continues to progress and Construction Management team continues to monitor impact of the COVID restrictions on project schedule. The Contractor reported five additional cases in December and all quarantined personnel have followed the appropriate procedures to return to work. The Contractor is following the required protocol to maintain the safety of the work force. The project has determined that these restrictions have some impacts to the project efficiency and schedule. The project has worked with our funding partners and has issued a revised Full Funding Grant Agreement requesting extension to the Revenue Service Date (RSD). While the COVID restrictions have continued to change, the project team continues to only have essential project staff on site to ensure safety of the staff and allow other staff to telecommute. (For additional discussion, please see Safety and Security section on pg. 34)

**Chinatown Station** - Completed installing GFRC panels at Upper Mezzanine. Completed installing Stair 5. Completed installing HVAC at Surface/Plaza levels. Obtained SFDBI Green Tag. Obtained permanent electrical PG&E power for primary feeder. Continued street work (minor), monitoring and surveying.

**Union Square/Market Street Station** - Completed terrazzo work at Stair #1 and Stair #6. Completed installing area of refuge fixtures. Completed installation of data and phone at North Entrance. Completed installation of EV fans in air flow sensor wire. Completed installation of the glazed wall system on Platform level. Completed installation of crystalized glass panels at Street level entrance and Ellis Street entrance.

**Yerba Buena/Moscone Station** - Completed interior finishes on Mezzanine. Completed permanent fencing at Headhouse Surface level. Completed installation of roof coping and roof fascia at Headhouse roof. Completed set trim and terminate devices –test. Completed CU equipment connect.

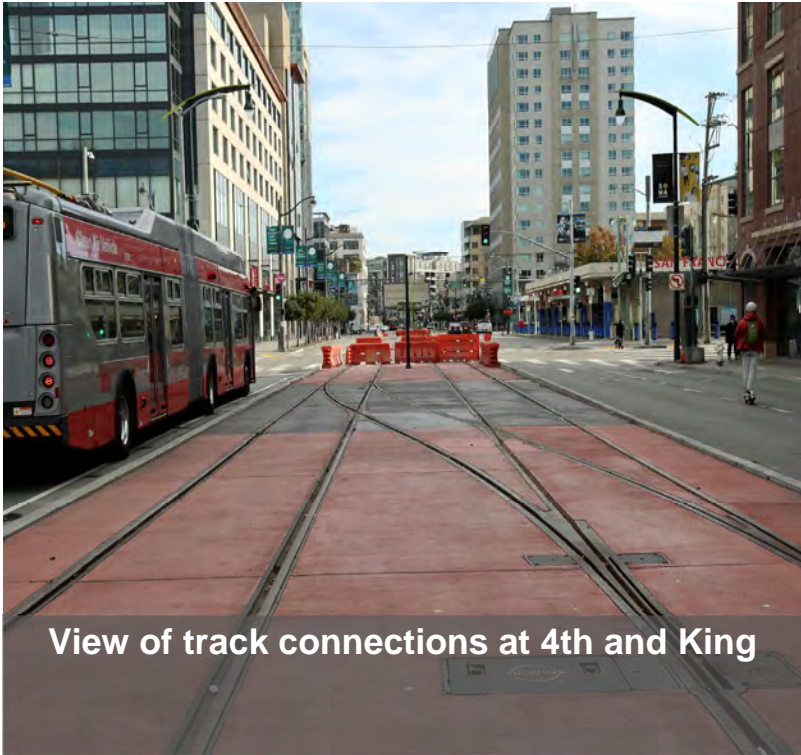
**Surface, Track and Systems**– Continued traction power conduit and other electrical conduit installation inside tunnel. Continued 4th/Brannan platform construction. Continued installation of ATCS and radio system. Continued fiber system installation.

Total net incurred costs for the project are \$1,684.36 million, a \$10.04 million increase over last month. The total cost to date has exceeded the total project budget of \$1.578 billion. The project continues to review the overall cost. The current Estimate at Completion (EAC) is projected to be \$1.793B or \$215M above the original budget of \$1.578B. The project shows a forecast Revenue Service Date of Spring 2022. (For additional discussion, please see Costs and Schedule on pg.7)

The Stations Contractors' Safety Reports should show any accidents that may occur during the current month. The rates of work site accident incidents by the man hours worked continue to be below industry standards - see tables on page 35



# Key Milestones

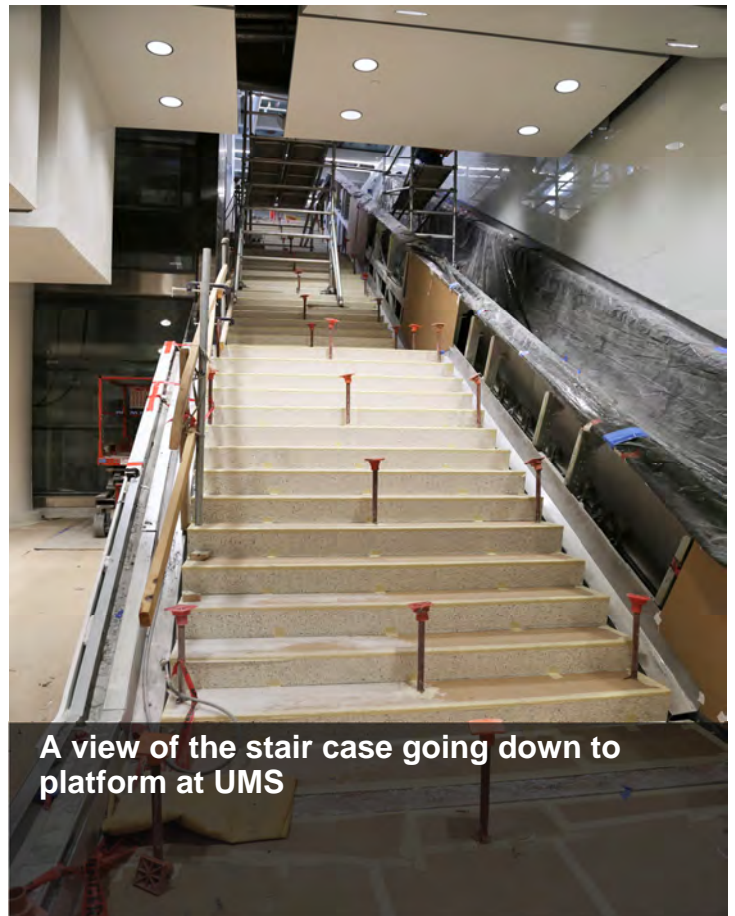


View of track connections at 4th and King

MILESTONE	DATE EXPECTED
<b>General</b>	
Revenue Service	Spring 2022
<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	Spring 2021



Workers planning out work to be done on the platform at YBM



A view of the stair case going down to platform at UMS

# Costs and Schedule

## Costs (See Appendix A for Details)

The revised Cost Estimate (CCE) for the Central Subway Project is \$1.665 billion in year of expenditure dollars (\$YOE). The project is working with our funding partners to address the current funding shortfall. Currently, the project estimates the Estimate at Completion (EAC) to be \$1.793B or \$215M above the original budget of \$1.578B. These revised estimates have been shared with our board. Based on the additional funding requirement, the project has received additional \$87M from capital contingency funds. The project will continue to work with Finance and Grants to secure these additional \$128M which will come from redirecting flexible funds from other funded capital projects that are delayed and have alternate cash flow. EAC has been adjusted as additional cost related to claim settlements, contract modifications and delayed cost due to the current pandemic are identified. As the EAC is revised and the funds are identified, the team will update the various cost sheets to reflect the revised budget and EAC along with any impacted appendix. The team anticipates that this will take several reporting cycles to adjust as the update are delayed by one month based on the report. The team continues to work with SFMTA Finance and Grants to book funds as they are identified and become available to the program.

Total net incurred costs for the project are \$1,684.36 million, a \$10.04 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,610.11 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$60.63 million) and estimates of outstanding pay requests (\$1.14 million). The revised total project budget has is \$1.665 billion due to additional local funds received.

The current funding level to date has already been fully met which includes excess local funds consisting of Operating funds of \$63,679,086 appropriated in October 2020 . The original total project budget of \$1.578 billion has already completed its original funding of the program in July 2020. The project team will continue to work with our financial partners to ensure that impacts to the project are minimized and the additional funds are secured.

## Earned Value Analysis

In December 2020 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA December Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

### Preliminary December Earned Value

Overall Budgeted Cost:	\$1,664,687,194
Planned Value:	\$1,593,491,019
Earned Value:	\$1,481,212,749
Actual Cost:	\$1,684,357,366
Schedule Performance Index (SPI):	0.93
Cost Performance Index (CPI):	0.88
Percent Complete:	93.0%

\*December 2020 Notice: The City continues to experience problems that were caused by error and inaccuracy from the transition from FAMIS to Financial System Project (FSP). An updated methodology has been implemented within the financial reporting that will provide more accurate figures for transactions occurring in fiscal year 2021.

As we continue to address these data quality problems through data cleaning, you will continue to see monthly fluctuations as we detect and remove errors and inconsistencies from data in order to improve on the quality of data so that we will be able to report accurate data. 7



# Schedule Highlights

The Master Project Schedule (MPS) below includes progress through December 2020. The December 2020 Schedule Update submittal from Contract 1300 Contractor was not submitted as the CN1300 Contractor has not provided the updated corrections to their June 2017, through July 2018 Schedule Updates. The Contract 1300 schedule represented in this report is based on the SFMTA December 2020 Schedule Update.

The MPS shows a forecast Revenue Service Date of Spring 2022 based on a revised assessment of the overall schedule and the current project conditions related to work efficiency due to COVID. The revised Revenue Service Date of Spring 2022 has been shared with our funding partners and a revised request to extend the Full Funding Grant Agreement with the revised date has been submitted to Federal Transit Administration (FTA) for review and approval. The project continues to evaluate this date with potential impact from COVID restrictions with stricter guidelines and procedures. The schedule team is assessing the risk with these issues and identifying potential mitigation to reduce the risk to the overall schedule. The Contractor has notified the City that potential delay may have occurred due to the social distancing requirement which is impacting production rates.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources and extended approvals of contract modifications related to Radio and Train Control Systems. These issues have impacted TPC's Substantial Completion date, we have mitigated the delay by accelerating rail activation activities. TPC and SFMTA are working to reach scope and cost agreements for these contract modifications as TPC refuses to commence work without an approved Contract Modification. The controlling critical (longest) path of the MPS runs through the electrical activities within the tunnel which are impacting the TPC's Startup and Testing and subsequently the rail activation process. The latest schedule shows the longest path running through the Surface, Tracks and Systems (STS).

SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. TPC has not been able to correctly staff the project which could potentially delay the project. In order to achieve the Baseline work productivity, TPC needs to increase the number of crews assigned to electrical work, allowing concurrent work within the tunnel and stations in order to make this completion date possible. It also requires that the front end portion of ATCS Startup and Testing is performed concurrently with TPC's Startup and Testing followed by ATCS software testing in coordination with SFMTA Operations.

Contract 1300 Contractor submitted fifty-four (54) Schedule Updates from December 2014 to July 2019. SFMTA rejected twenty eight (28) Schedule Updates from January 2016 to April 2016 and June 2016 to July 2018 due to multiple and repetitive issues that vary from incorrect working sequences to unrealistic forecasted completion dates to artificially steering the schedule longest path through certain portions of the project. SFMTA approved as noted December 2014 through December 2015, and May 2016 Schedule Updates. Contractor has been directed to provide a Revised Schedule as required by the overall settlement agreement to maintain the forecasted project completion.

## **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 December 2020 schedule is used within the September Report. The SFMTA Contract 1300 December 2020 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. 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.



## Schedule Highlights - Continued

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

- Continued installing terrazzo for Stair 1 at Cavern Platform level
- Began installing terrazzo for Stair 2 and 3 at Station Headhouse
- Continued installing overhead signage along North/South Cavern Platform
- Continued installing electrical and communication conduits at Station Agent Booth at Concourse level
- Continued pulling service wires at Equipment Room at Underplatform level
- Continued pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface/Plaza levels
- Completed installing GFRC panels at Upper Mezzanine
- Continued installing Elevators 1, 2, 3, and 4
- Completed installing Stair 5
- Continued installing Stair 6
- Continued construction of Plaza roof and stairs
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface/Plaza levels
- Completed installing HVAC at Surface/Plaza levels
- Continued installing GFRC panels at Plaza level
- Continued installing grating at Roof walkways
- Began installing pavers at Plaza level
- Obtained SFDBI Green Tag
- Obtained permanent electrical PG&E power for Primary Feeder
- Began testing EV fans, board and panels, transformers, and lighting
- Continued street work (minor), ongoing monitoring and surveying

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

Continued construction, installation and testing of the following items:

- Completed Terrazzo work at Stair #6.
- Started Installation of OCS brackets at Platform level.
- Continued Pulling fiber for SFDT Installation.
- Completed Installing Area of Refuge Fixtures.

## Schedule Highlights - Continued

- Completed Installation of Data, Phone at North Entrance.
- Continued working on Station Agent Booth.
- Continued Installation of Power and Data Outlets at Ellis Entrance.
- Completed Installation of Terrazzo at Stair #1.
- Completed Installation of EV-Fans in Air-Flow Sensor Wire.
- Completed Installation of the Glazed Wall System on Platform Level.
- Continued Installation of Fire Alarm BPS and Deluge System at South Electrical Room.
- Completed Installation of Crystalized Glass Panels at street level entrance and Ellis street entrance.
- Continued Installation of cables for Artwork at Concourse Level (Gizmo).
- Completed Installation of guard Rails near EV Dampers.
- Continued landscaping street level area at Stockton street.

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

- Continued Installation of terrazzo steps at Ingress/Egress stair 7
- Continued installing doors and Hardware's
- Continued work interior finishes Concourse Levels within Station Box
- Completed interior finishes on Mezzanine
- Continued Rough in FSD's and FA-Pull fire alarm wire at platform
- Continued installation of Elevators 3 and 4
- Continued installation of Escalators 3 and 4
- Continued Installing Precast pavers at Plaza area at Surface level.
- Completed Permanent fencing at South area, at Headhouse Surface level.
- Completed Installation of roof coping and Roof fascia at Headhouse roof.
- Continued installation of Ceiling metal panels at Headhouse roof
- Continued installing Station Agent Booth
- Completed 60% FA system
- Completed Set trim and terminate devices – Test (for Receptacles and Light switches)
- Completed CU equipment connect

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

- Continued 4<sup>th</sup>/Brannan platform construction
- Continued traction power conduit and other electrical conduit installation inside tunnel

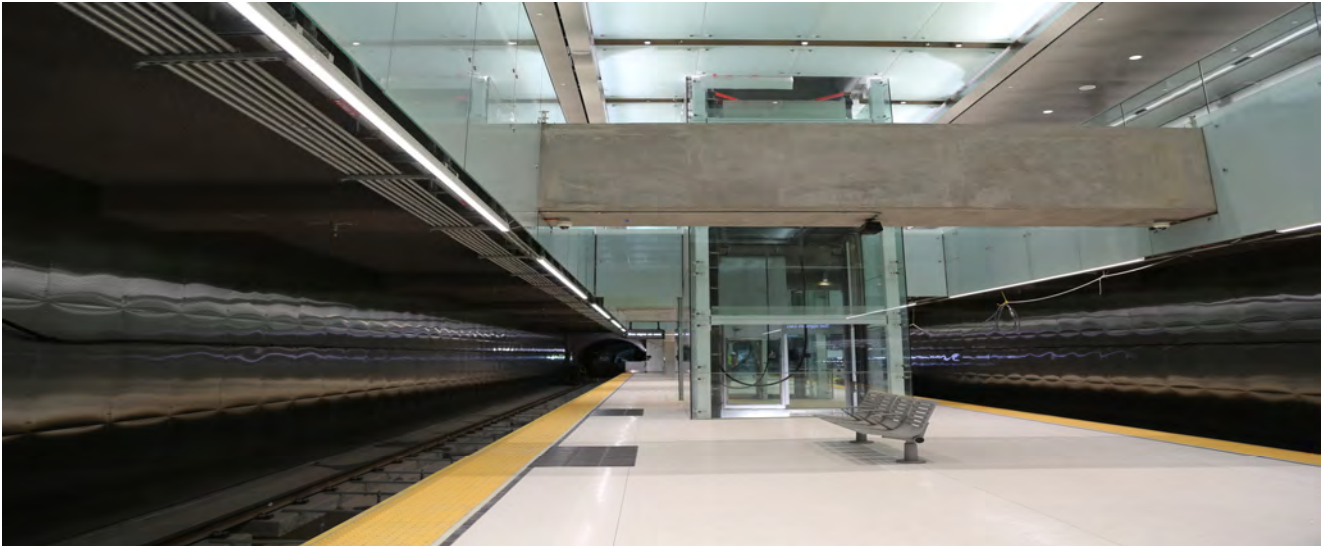


## Schedule Highlights - Continued

for CCTV, telephone, tunnel lighting, and tunnel electrical power

- Continued traction power cable installation, terminations, and installation of cross bonds throughout the tunnel.
- Continued OCS hanger installation and installation of OCS risers throughout the tunnel
- Continued installation of ATCS and radio system
- Continued fiber system installation





*View of the platform at YBM*

## Contracts & Construction

### Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$1,006.25 million
- Contract Status: 94.8% completed 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

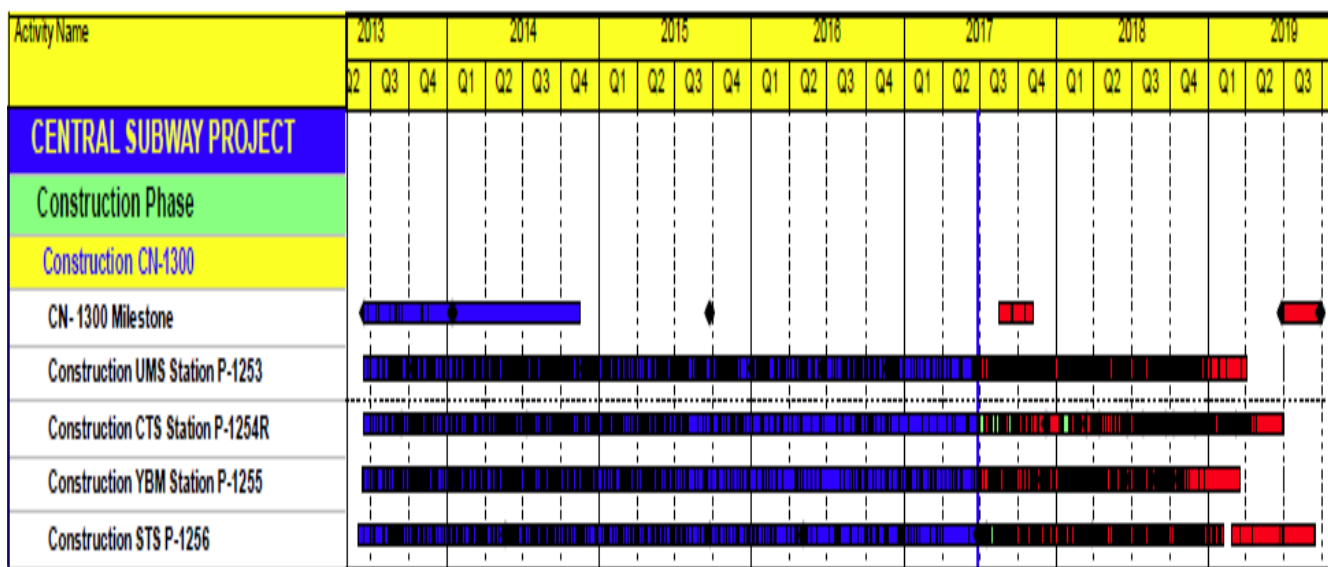
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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:	Spring 2021
Contract Award Value:	\$839,676,400
Modifications to Date (\$):	\$166,575,357
Modifications to Date (Days):	1,052
Current Contract Value:	\$1,006,251,757

Budget/Expenditures▲	
Current Budget	\$947,384,505
Other Project Offset Credits	\$10,414,977
Expenditures to Date	\$983,714,545

## 1300 Summary Schedule



# Chinatown Station

## Contract 1300 - Work Package 1254R

### Description of Work

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

### Current Work Status

- Continued installing terrazzo for Stair 1 at Cavern Platform level
- Began installing terrazzo for Stair 2 and 3 at Station Headhouse
- Continued installing overhead signage along North/South Cavern Platform
- Continued installing electrical and communication conduits at Station Agent Booth at Concourse level
- Continued pulling service wires at Equipment Room at Underplatform level
- Continued pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface/Plaza levels
- Completed installing GFRC panels at Upper Mezzanine
- Continued installing Elevators 1, 2, 3, and 4
- Completed installing Stair 5
- Continued installing Stair 6
- Continued construction of Plaza roof and stairs
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface/Plaza levels
- Completed installing HVAC at Surface/Plaza levels



- Continued installing GFRC panels at Plaza level
- Continued installing grating at Roof walkways
- Began installing pavers at Plaza level
- Obtained SFDBI Green Tag
- Obtained permanent electrical PG&E power for Primary Feeder
- Began testing EV fans, board and panels, transformers, and lighting
- Continued street work (minor), ongoing monitoring and surveying

### Work Expected Next Month

- Complete installing terrazzo for Stair 2 and 3 at Station Headhouse
- Complete installing overhead signage along North/South Cavern Platform
- Continue installing electrical and communication conduits at Station Agent Booth at Concourse level
- Complete installing Stair 6
- Complete pulling service wires at Equipment Room at Underplatform level
- Continue installing overhead conduit at Traction Power rooms at Headhouse Platform level
- Complete pulling service wires at Main Electrical and Traction Power rooms at

# Chinatown Station

## Headhouse Platform level

- Complete installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface and Plaza levels
- Complete installing GFRC panels at Crosscut Cavern Arch
- Complete installing Elevators 1 and 2
- Continue installing Elevators 3 and 4
- Complete construction of Plaza roof and stairs
- Complete installing fire proofing for Plaza level
- Complete installing pavers at Plaza level
- Complete installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Complete HVAC installation at Surface and Plaza levels
- Obtain permanent electrical PG&E power from Secondary Feeder
- Complete traction power conduit installation and OCS at Cavern
- Continue testing EV fans, board and panels, transformers, and lighting
- Begin testing Traction Power and Train Control components
- Complete construction of 8" water line along Washington Street
- Begin reactivation of existing AWSS pipeline along Stockton Street
- Open up 1 Westbound traffic lane along Washington Street
- Continued street work (minor), ongoing monitoring and surveying

## Three Month Look Ahead

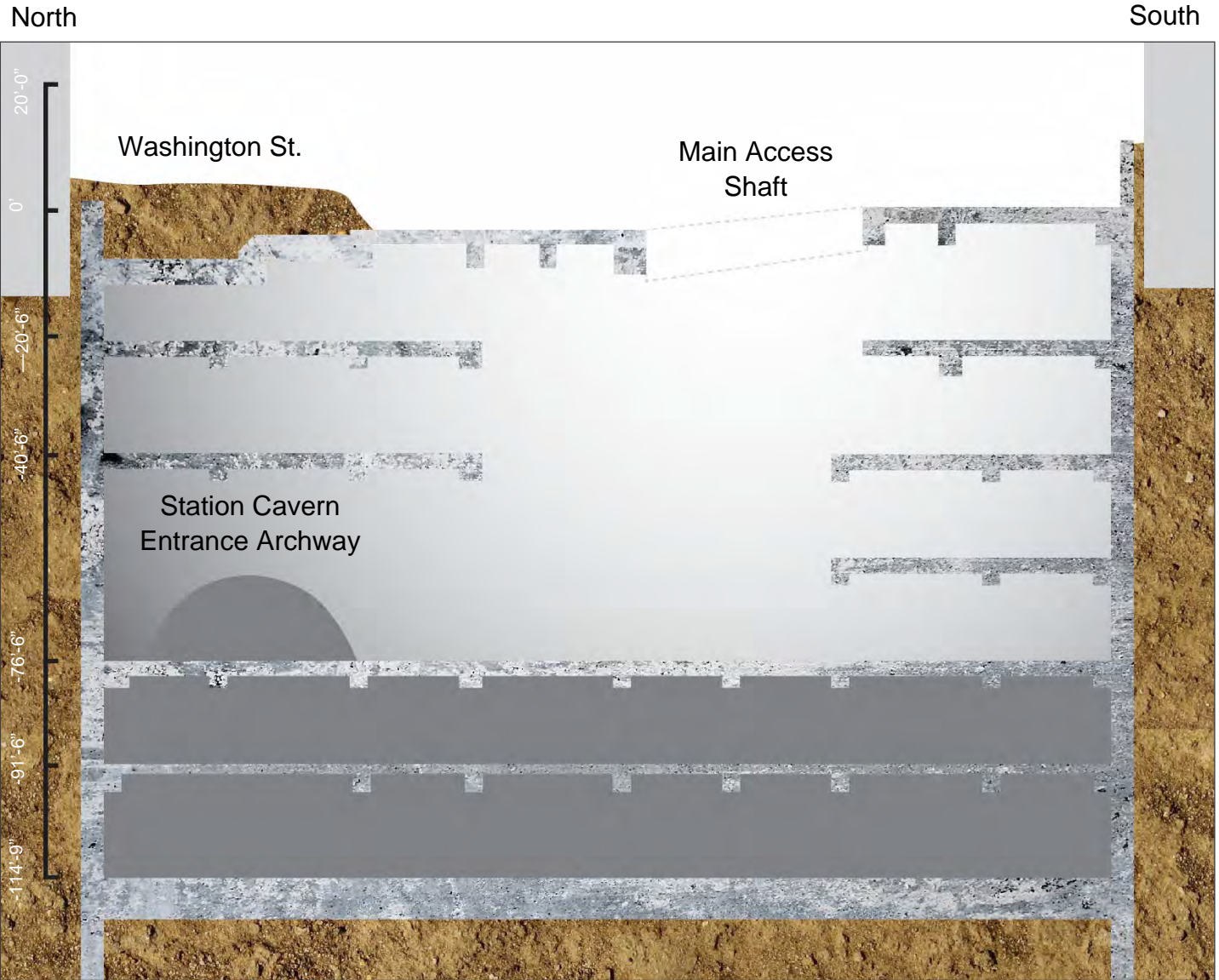
- Complete installation of Elevators 3 & 4
- Complete installing mechanical, electrical, plumbing, at Surface, Plaza, and Roof levels at Headhouse
- Complete construction of PCC 50 Chinatown Plaza
- Continue component and system testing
- Complete reactivation of existing AWSS pipeline along Stockton Street
- Abandon dewatering wells on Stockton Street



*Chinatown station, workers placing asphalt on Washington street.*



### Station Construction Progress Section

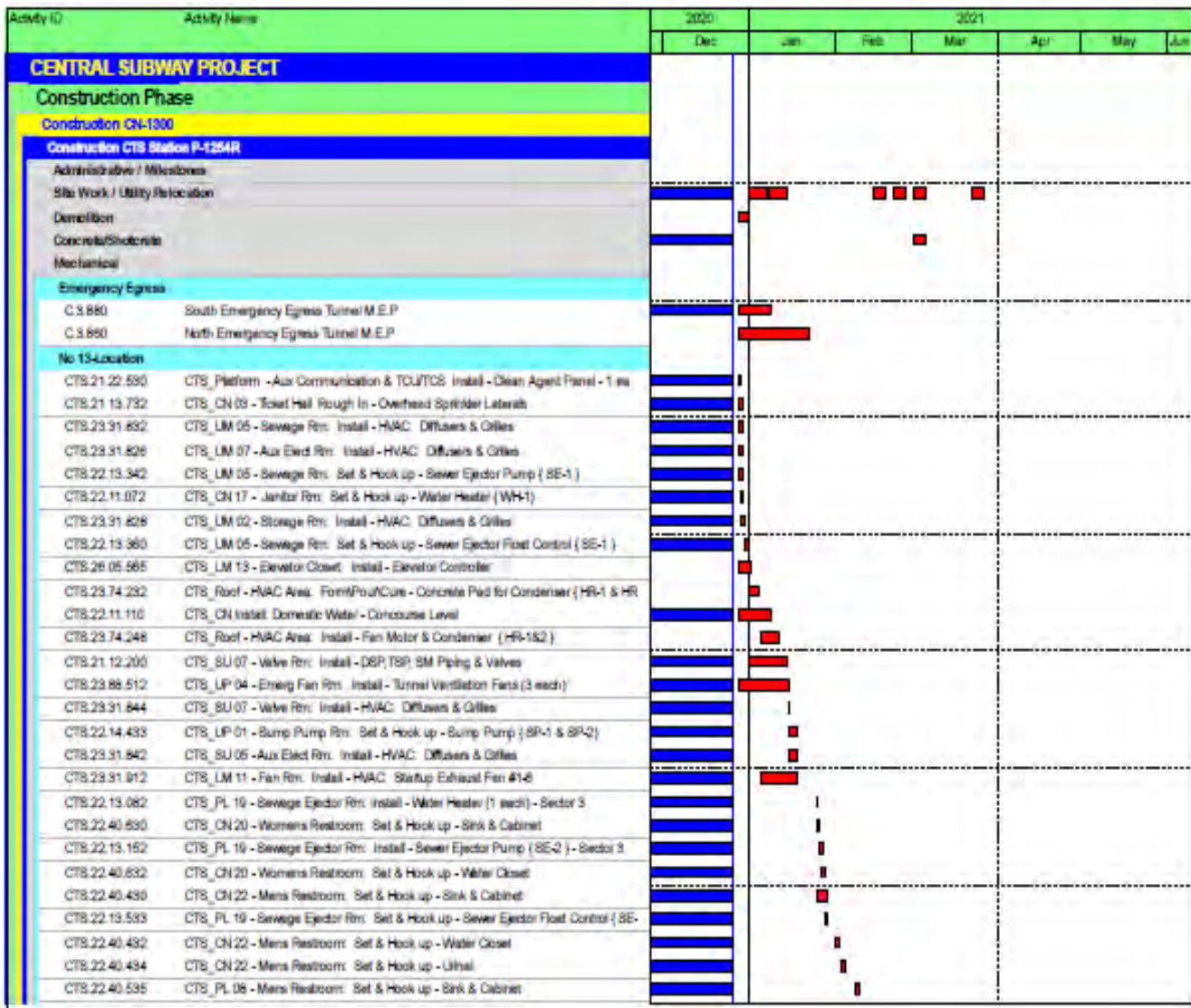


# Chinatown Station Construction Status - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	Spring 2021
Contract Award Value:	\$247,567,810
Modifications to Date (\$):	\$62,581,923
Modifications to Date (Days):	1,052
Current Contract Value:	\$310,149,733

Budget/Expenditures	
Current Budget	\$269,185,704
Other Project Offset Credits	\$7,256,680
Expenditures to Date	\$29,1778,038

## 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 and perform related street work. 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. This work package also involves reconstruction Street work which includes Geary St, O'Farrell St, Ellis Street and Stockton street from Post Street to the intersection of 4<sup>th</sup> / Ellis St / Market St.

## Current Status This Month

Continued construction, installation and testing of the following items at -

- Completed Terrazzo work at Stair #6.
- Started Installation of OCS brackets at Platform level.
- Continued Pulling fiber for SFDT Installation.
- Completed Installing Area of Refuge Fixtures.
- Completed Installation of Data, Phone at North Entrance.
- Continued working on Station Agent Booth.
- Continued Installation of Power and Data Outlets at Ellis Entrance.
- Completed Installation of Terrazzo at Stair #1.
- Completed Installation of EV-Fans in Air-Flow Sensor Wire.
- Completed Installation of the Glazed Wall System on Platform Level.
- Continued Installation of Fire Alarm BPS and Deluge System at South Electrical Room.
- Completed Installation of Crystalized Glass Panels at street level entrance and Ellis street entrance.



- Continued Installation of cables for Artwork at Concourse Level (Gizmo).
- Completed Installation of guard Rails near EV Dampers.
- Continued landscaping street level area at Stockton street.

## Work Expected Next Month

Continued construction, installation and testing of the following items at -

- Continue working on Station Agent Booth (install glass, counters and electrical work).
- Continue Installation of cables for Artwork at Concourse Level (Gizmo).
- Continue Installation of Fire Alarm and FHCs.
- Continued Installation of OCS brackets at Platform level.
- Continued Pulling fiber for SFDT Installation.
- Continued Installing Area of Refuge Fixtures.
- Start Painting Traction Power Conduits at Platform level.



# Union Square/Market Street Station

*Contract 1300 Work Package 1253*

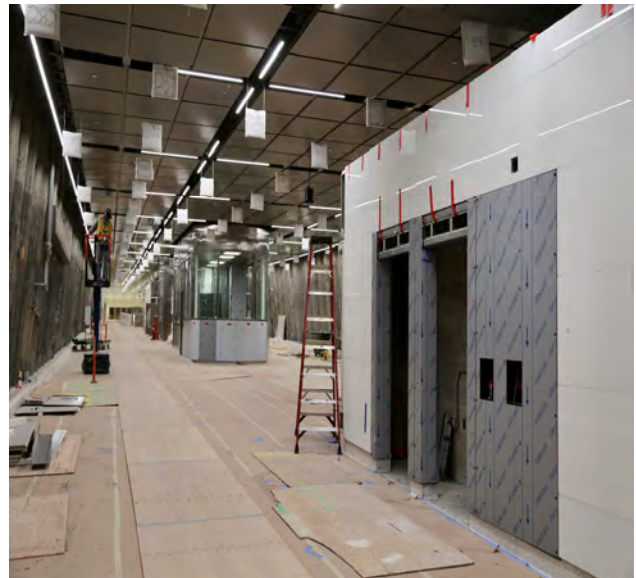
## Three Month Look Ahead

Completion of the following:

- All structural concrete work.
- Stairs, elevators and escalators.
- Ceiling panels.
- Emergency lighting at tunnel tie-in on platform level.
- CCTV/Communication at tunnel tie-in on platform level.
- Station Agent Booth.
- Application of Anti-graffiti.

Continued construction / begin installation and testing of the following:

- Fireproofing.
- Terrazzo flooring and stairs.
- Glass wall panels.
- Artwork on Concourse level.
- Light fixtures and controls at Ellis Entrance.
- Fire Alarm/ PA/ Security System.
- Overhead plumbing, fire protection piping and overhead fixture and electrical.
- Frames and pressurized doors at intermediate strut level.
- Access controls.
- HVAC and EV startup and testing.
- Power and Lighting startup and testing.
- Fire Alarm /PA / Security System startup and testing.
- Permanent PG&E historic streetlights at O'Farrell and Stockton Street.
- Traffic cabinets.
- OCS Installation.
- Installation of traction conduits.

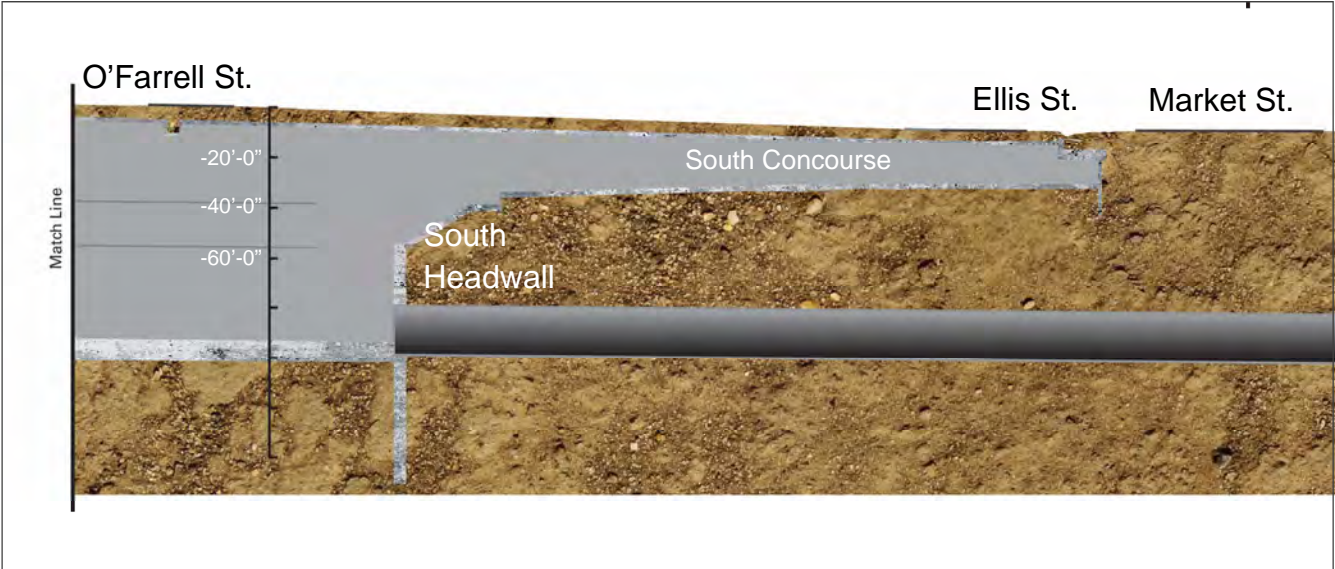
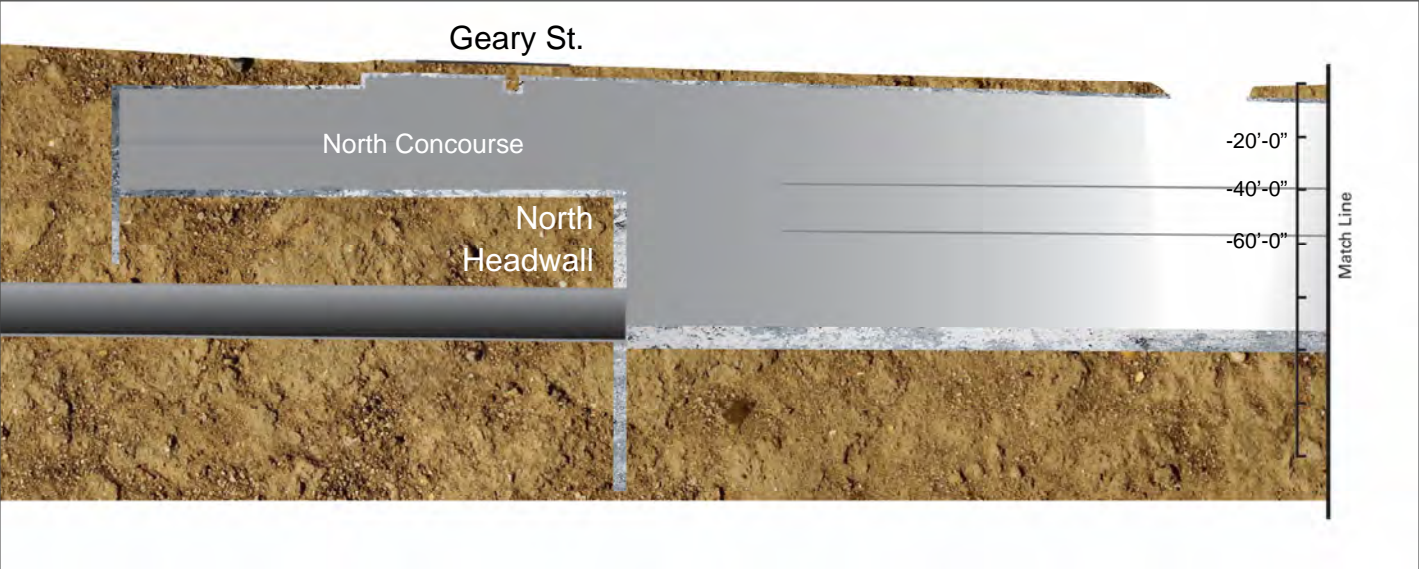


View down the concourse at Union Square Station

### Station Excavation and Construction Progress Section

North

South

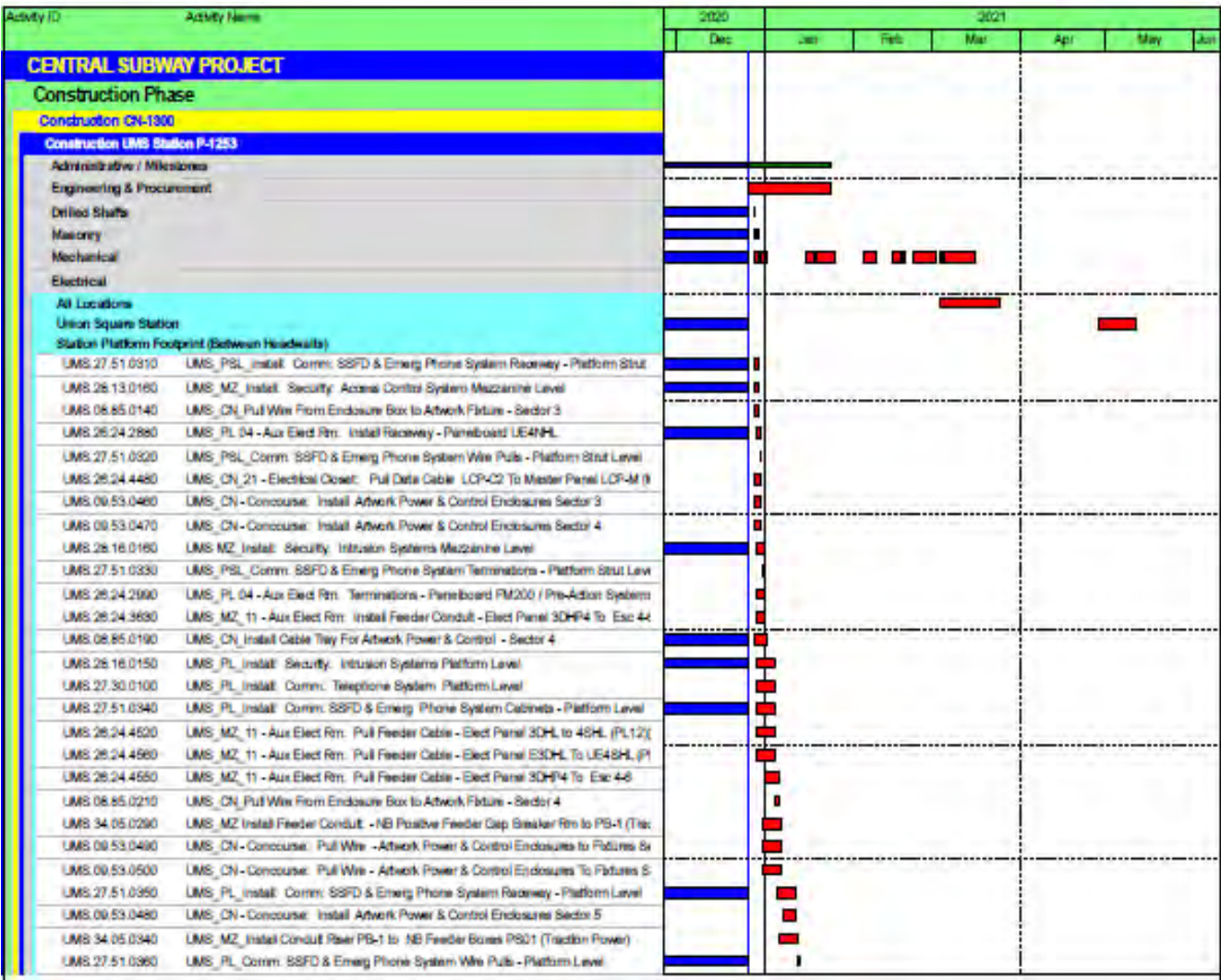


# Union Square Market Street Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	Spring 2021
Contract Award Value:	\$294,030,590
Modifications to Date (\$):	\$20,744,337
Modifications to Date (Days):	1,052
Current Contract Value:	\$314,774,927

Budget/Expenditures ▲	
Current Budget	\$314,030,590
Expenditures to Date	\$310,663,518

## 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

- Continued Installation of terrazzo steps at Ingress/Egress stair 7
- Continued installing doors and Hardware's
- Continued work interior finishes Concourse Levels within Station Box
- Completed interior finishes on Mezzanine
- Continued Rough in FSD's and FA-Pull fire alarm wire at platform
- Continued installation of Elevators 3 and 4
- Continued installation of Escalators 3 and 4
- Continued Installing Precast pavers at Plaza area at Surface level.
- Completed Permanent fencing at South area, at Headhouse Surface level.
- Completed Installation of roof coping and Roof fascia at Headhouse roof.
- Continued installation of Ceiling metal panels at Headhouse roof
- Continued installing Station Agent Booth
- Completed 60% FA system
- Completed Set trim and terminate devices – Test (for Receptacles and Light switches)
- Completed CU equipment connect

### Work Expected Next Month

- Install Handrails at Ingress/Egress Stair 7,8 & 9
- Continue Installation of terrazzo steps at Ingress/Egress stair 7
- Complete installation of doors and Hardware's



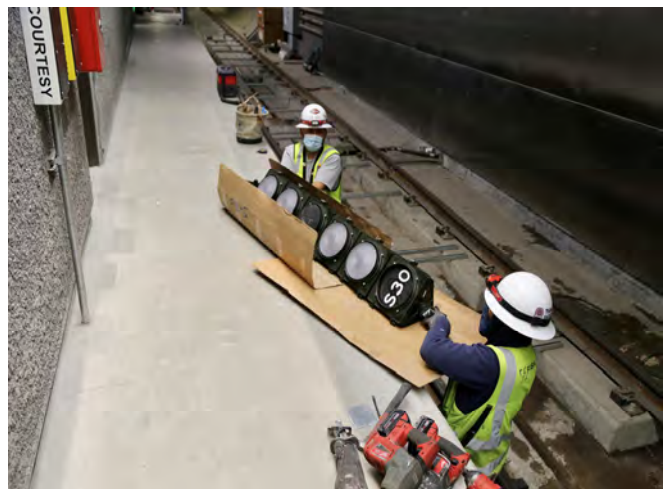
- Complete interior finishes on Concourse Levels within Station Box
- Complete Rough in FSD's and FA-Pull fire alarm wire at platform
- Complete installation of sculpture at Surface level
- Complete installation of Elevators 3 and 4
- Complete installation of Escalators 3 and 4
- Continue Installing Precast pavers at Plaza area
- Complete Installation of Ceiling metal panels at Headhouse roof.
- Align and bolt down Traction Power gear and Install bus duct at TP room.
- Complete Platform Kiosks
- Complete Station Agent Booth
- Complete Surface Plaza Area
- Complete Systems Start up and Acceptance Testing
- AT&T – Pull in wires to all building levels. Set trim and terminate devices
- Complete FA system
- Complete Set trim and terminate devices – Test

# Yerba Buena/Moscone Station

## Contract 1300 - Work Package 1255

### Three Month Look Ahead

- Install Handrails at Ingress/Egress Stair 7,8 & 9
- Continue Installation of terrazzo steps at Ingress/Egress stair 7
- Complete installation of doors and Hardware's
- Complete interior finishes on Mezzanine & Concourse Levels within Station Box
- Complete Rough in FSD's and FA-Pull fire alarm wire at platform
- Continue installation of sculpture at Surface level
- Complete installation of Elevators and Escalators 3 and 4
- Continue Installing Precast pavers at Plaza area, Permanent fencing at South area, at Headhouse Surface level.
- Complete Installation ceiling metal panels at Headhouse roof.
- Align and bolt down Traction Power gear and Install bus duct at TP room.
- Complete Platform Kiosks
- Complete Station Agent Booth
- Complete Surface Plaza Area
- Complete Systems Start up and Acceptance testing
- AT&T – Pull in wires to all building levels. Set trim and terminate devices
- Complete FA system
- Complete Set trim and terminate devices – test



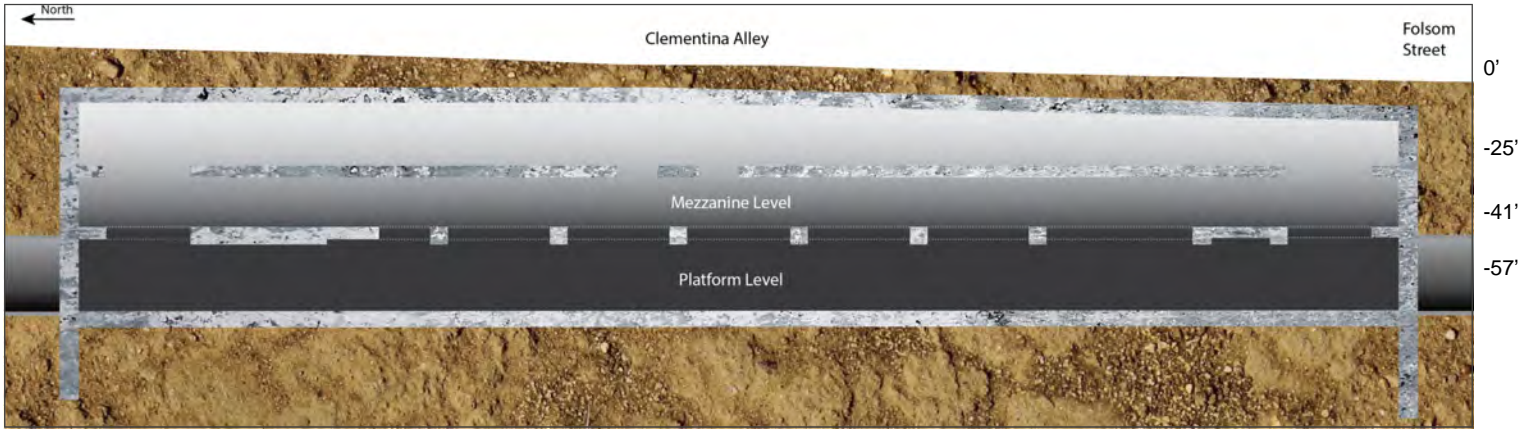
Workers putting up the signaling in the tunnel.



### Station Excavation and Construction Progress Section

North

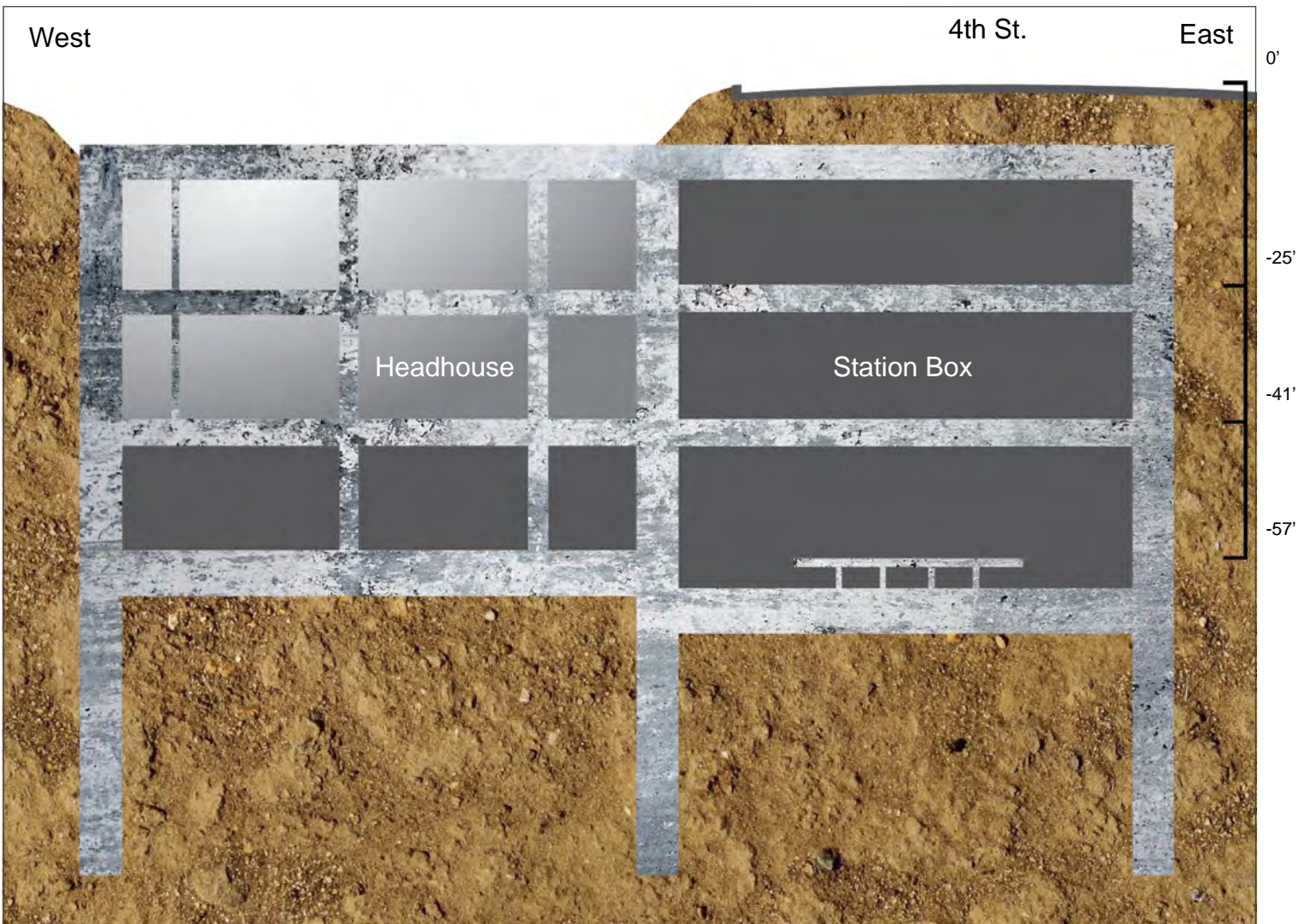
South



West

4th St.

East



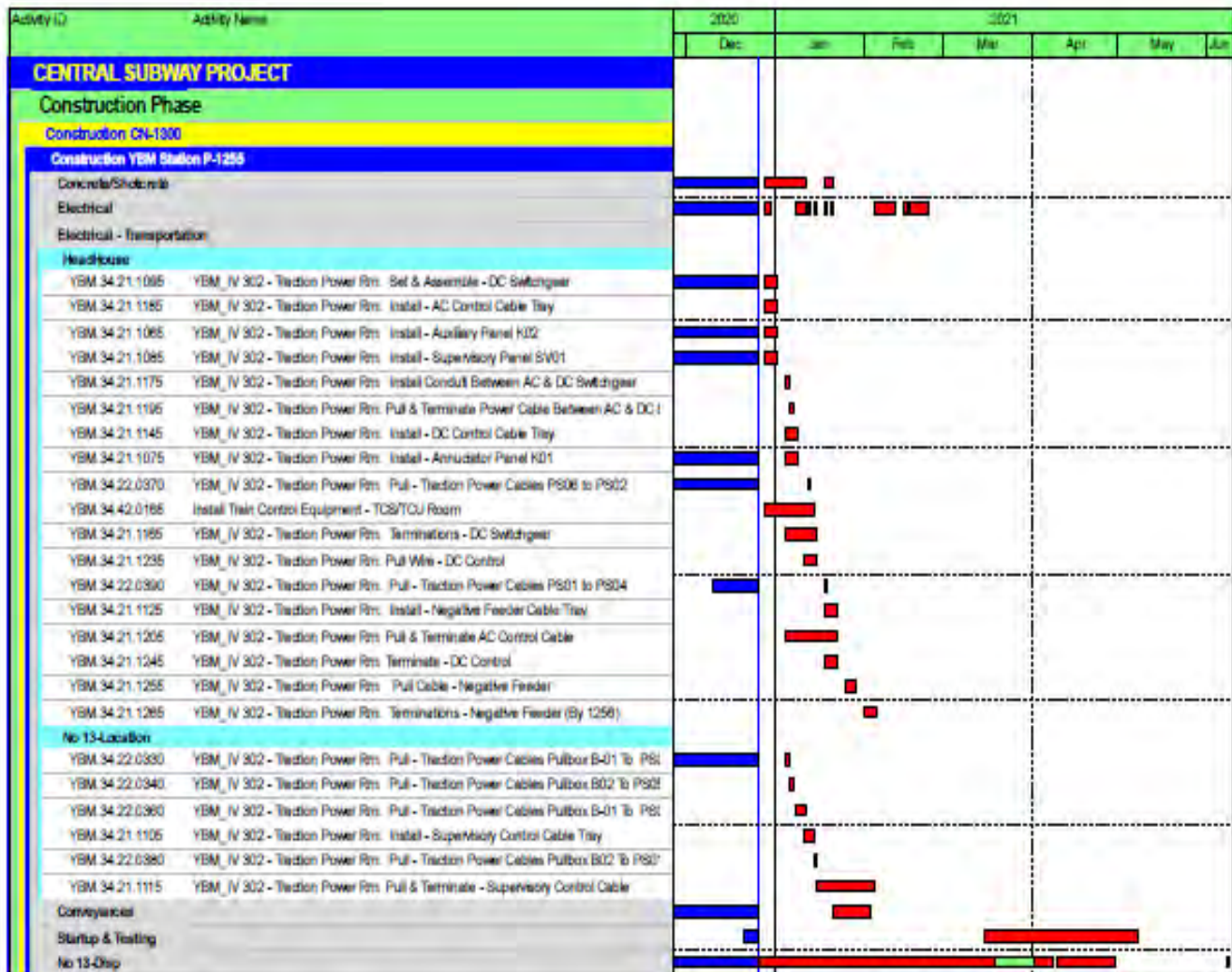


# Yerba Buena Moscone Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	Spring 2021
Contract Award Value:	\$158,089,000
Modifications to Date (\$):	\$4,889,959
Modifications to Date (Days):	1,052
Current Contract Value:	\$162,978,959

Budget/Expenditures ▲	
Current Budget	\$173,089,000
Other Project Offset Credits	\$415,331
Expenditures to Date	\$160,126,432

## YBM Three Month Schedule



# 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 4<sup>th</sup>/Brannan platform construction
- Continued traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical power
- Continued traction power cable installation, terminations, and installation of cross bonds throughout the tunnel.
- Continued OCS hanger installation and installation of OCS risers throughout the tunnel
- Continued installation of ATCS and radio system
- Continued fiber system installation

### Work Expected Next Month

- Continue 4<sup>th</sup>/Brannan platform construction
- Continue surface signaling work on 4<sup>th</sup> St.
- Continue traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical
- Continue traction power cable testing, installation and terminations
- Continue tunnel lighting, mini power, OCS hanger, ATCS, and radio system installation
- Continue fiber system installation
- Start FDC installation near 4<sup>th</sup> St. portal

### Three Month Look Ahead

- Complete OCS/street light pole installation



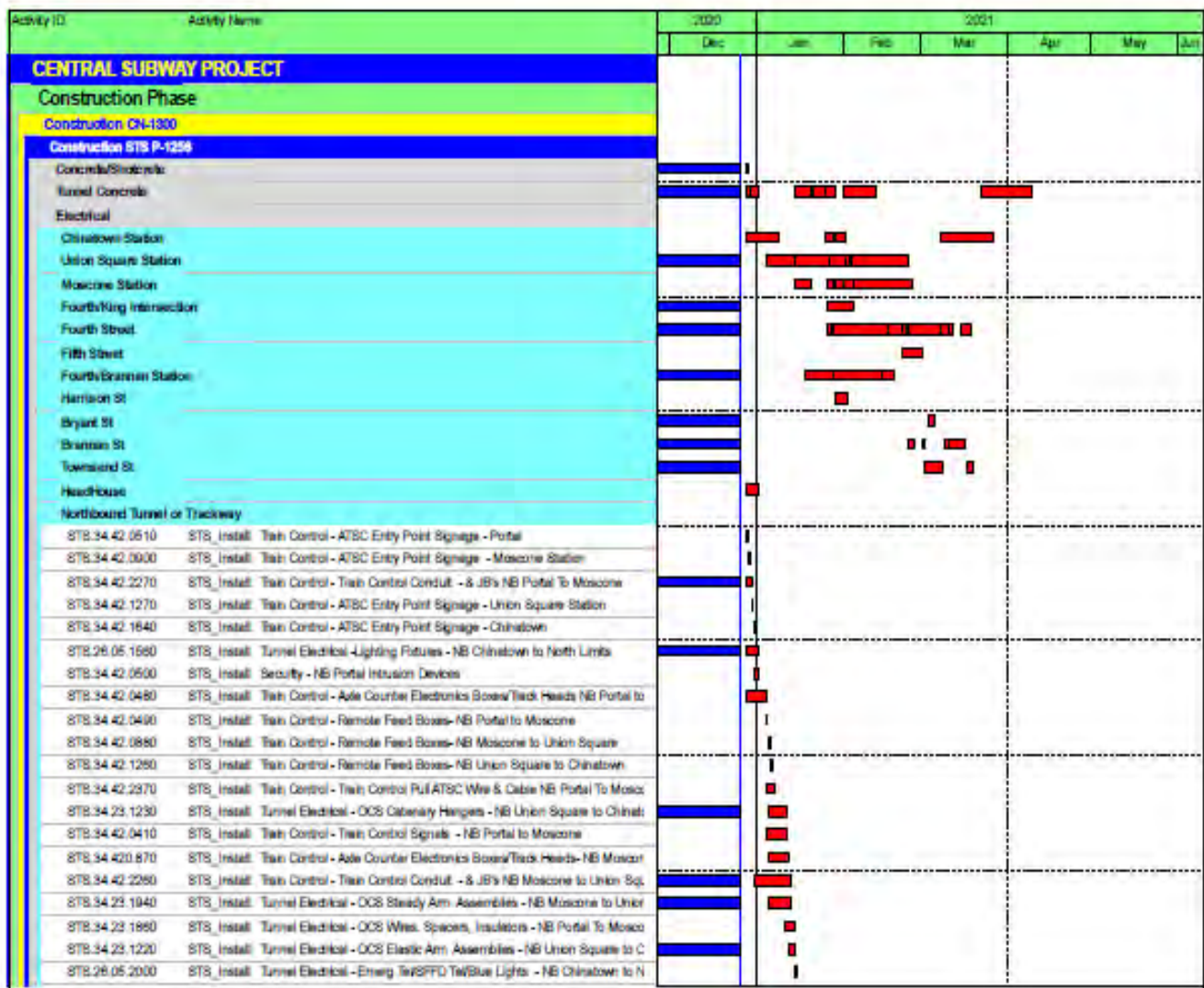
- Continue OCS support/wire installation in tunnel and on 4<sup>th</sup> Street
- Continue 4<sup>th</sup>/Brannan platform construction
- Continue surface signaling work on 4<sup>th</sup> St.
- Continue traffic signal work on 4<sup>th</sup> St.
- Continue street lighting work on 4<sup>th</sup> St.
- Start FDC installation near 4<sup>th</sup> St. portal
- Continue electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting and tunnel electrical
- Continue tunnel lighting, mini power, OCS hanger, ATCS, and radio system installation
- Continue pulling traction power feeder cables on surface
- Continue train case fabrication and testing for 4<sup>th</sup>/King and Bluxome Crossover
- Complete surface signaling to existing system at 4<sup>th</sup>/King
- Continue fiber system installation

# Systems, Trackwork, & Surface Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	Spring 2021
Contract Award Value:	\$139,989,000
Modifications to Date (\$):	\$78,359,138
Modifications to Date (Days):	1,052
Current Contract Value:	\$218,348,138

Budget/Expenditures	
Current Budget	\$173,042,502
Other Project Offset Credits	\$2,632,766
Expenditures to Date	\$221,146,557

## Systems, Track and Surface Station Three Month Schedule



# Program Components

## Community Outreach

**Outreach public information, events and presentations for December 2020 include:**

- Conducted virtual Chinatown Merchants Meeting
- Conducted virtual Chinatown Station Community Meeting
- Ongoing outreach to merchants and residents by email and social media
- Produced quarterly construction update video and other multimedia content
- Responded to constituent complaints and questions
- Preparation and dissemination of construction notices

### Outreach in Support of Mitigation and Monitoring

- Team members participated in weekly teleconference meeting to address neighborhood concerns
- 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
12/15/2020	<b>San Francisco Tunnel Projects Earn International Honors</b>	Construction Equipment Guide.com	Staff writer
12/16/2020	<b>Central Subway estimated to be 15 percent over \$1.6 billion budget</b>	SF Examiner	Carly Graf
12/18/2020	<b>Final bill for Central Subway could blow budget by \$130 million</b>	SF Bay	Jerold Chinn



## Quality Assurance

Project Quality Assurance provides oversight of the implementation of the SFMTA Quality Assurance Program as it is applied to the Central Subway Project. Project Quality Assurance (QA) performs surveillances, audits and provides proactive feedback to the Project team. The team consists of designers, construction management staff, resident engineers, QA inspectors, the prime construction contractor, its quality control, subcontractors and suppliers.

### **Stations and Systems Contract CN1300 Quality Assurance Monitoring Activities**

Project Quality Assurance performs the following activities to ensure that the quality program complies with project quality requirements:

- QA observation of all work in progress for all work packages
- QA observations of QC inspection, testing and documentation by Smith Emery for all work packages
- QA observation of station construction at CTS, UMS, and YBM
- QA observation of STS invert and plinth concrete placement and track installation
- QA observation of STS rail preparation and installation
- QA review of TPC's Quality Control (QC) Daily Inspection Reports posted to project records CM13 which includes TPC's Specialty Subcontractor's QC checklists, associated documentation and Smith Emery inspection and testing reports provided by 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
- QA participation in definable feature of work preparatory and initial phase meetings as scheduled by the contractor's QC manager
- QA participation in Weekly Work Package Progress Meetings for STS, YBM, UMS and CTS
- QA participation in Monthly Project Risk Mitigation, Safety and Security, and weekly Construction Management Board (CMB) meetings as scheduling constraints allow

### **Document comment and review:**

- QA staff reviews quality related submittals, other submittals and Requests for Information (RFIs) as needed and requested to support the RE's and CM administration of the Quality Assurance Program
- QA staff performs random checks of the Contractor's independent field inspection and testing laboratory reports and results as provided by the Contractor's testing laboratory

### **Contractor Non Conformance Reports (CNCR) Status as indicated in the TPC QC CNCR Log:**

During this period, seven CNCRs were opened and one CNCR was closed.

- 572 CNCRS are currently posted to the CNCR Log
- 68 CNCRs are currently posted to the CNCR Log as OPEN

# Quality Assurance - Continued

## **Notice of Non-compliance (NCN):**

In the event, for whatever reason, that the Contractor neglects or refuses to generate a Contractor Non-Conformance Report, the Engineer may issue a Non-Compliance Notice to the Contractor for any detected non-compliance in the Work or portion thereof that has not been performed in accordance with the Contract Documents.

- Project QA has issued 35 NCNs

## **Audits:**

- Previously, Project QA performed an audit of the Contractor's compliance with specified requirements for Project Coordination and Management Staff. The audit resulted in five findings and five Corrective Action Requests. These findings remain open
- During this period, Project QA initiated an audit of the Contractor's compliance with document control and quality records requirements for the period

## **QA Issues:**

- The Contractor is required to provide a Quality Control (QC) Daily Inspection Report. No reports were provided during this period.
- The Contractor is required to submit a revised Quality Control Program anytime there are changes to the program. In June, the Contractor was asked to submit a revised plan. The Contractor has not submitted a revision.
- The Contractor does not currently have the required number of QC staff. Four (4) full-time Assistant Contractor Quality Managers are required by Contract. Currently there are three vacancies
- The Contractor does not have a QC manager on the site at all times during construction as required by contract
- The Contractor continues to perform work in some instances prior to receipt of approved required submittals (including product information, coordination and shop drawings) and RFIs with or without knowledge of the Contractor's QC or responsible production supervision. This presents potential risk.

## **QA Concerns:**

- The Contractor continues to furnish and install nonconforming OCS support brackets and hangers which do not meet certification and inspection requirements.
- The contractor continues to furnish and install OCS poles without meeting prerequisite certification requirements. Project QA issued STS NCN 003. The Contractor has not responded to the NCN
- The Contractor continues to VOID CNCRs without demonstrating that the work meets Contract requirements
- The Contractor is not identifying all nonconforming work as required by contract
- The Contractor continues to perform CNCR repairs prior to receiving approval of the proposed repair procedures
- The untimely identification and mitigation (SFMTA approval) of "last minute items" remains an ongoing challenge to all involved and often generates nonconforming work. Project quali-

## Quality Assurance - Continued

ty has not suffered to date; however the aforementioned concern remains

- Project schedule compression demands disrupting RE, design staff priorities, and work flows as mentioned above; quality has not suffered but the concern remains

### **Program QA Practices Implemented:**

- Close-out of Corrective Action Requests: Close outs continued as required from Quality Assurance staff's audits, surveillances and PMOC quarterly reviews. The status is tracked in the Corrective Action Log that is available to the project team and the FTA PMOC
- Project QA continues to hold weekly meetings with the Resident Engineers, Assistant Resident Engineers, and QA inspectors of all stations to review project quality assurance procedures and requirements and to discuss contractor quality control requirements

## Risk Management

Risk Mitigation Management Meeting took place on Tuesday, December 1, 2020. Members of the Risk Assessment Committee reviewed the top risk items in accordance with the risk summary sheet, which has been given a rating by the Committee of six and above. The Committee continues to discuss impacts of COVID to construction efficiency and impact to the schedule.

COVID related impacts to the project are continually being monitored and updated by the risk owner under risk #265. Currently, thirty-five (35) construction risks, two (2) revenue service risk and one (1) remaining requirement risk, are being tracked on the Project's Risk Register; in addition to, establishing strategies for mitigation and evaluating potential unforeseen issues or conditions.

The Committee continues to follow risks and statuses updated with the use of the risk mitigation status sheets, providing monthly updates by the Risk owner to demonstrate the assigned mitigation strategy is being implemented. The program has submitted to FTA and other funding partners with a revised Full Funding Grant Agreement (FFGA) which has adjusted the Revenue Service Date (RSD) based on the analysis of the current risk, schedule, and cost. The program notified FTA at the last Quarterly meeting with revised FFGA and schedule. The program has validated the program risks and issued risk analysis as part of the request to extend the FFGA Revenue Service Date (RSD) and adjusted cost in compliance with FFGA requirements to ensure that the program has sufficient schedule and cost contingency.

### Top Risks

Risk #	Risk Description	Risk Rating	Contract Location/ Phase
265	COVID-19 directly impacts progress of the work resulting in increase costs and schedule delays.	14	STA
255	Water leaks at YBM station, including water in conduits	10	YBM
251	Physical activities missing (not defined) in the schedule / identify activities of undefined scope	8	STA
257	Systems Test Integration between components does not work; fails	8	RS
205	Prolong period of CMod's creates additional cost/causes bad blood between Resident Engineer and Contractor	8	STA
253	Do not have adequate (subcontractor) resources defined to perform the work to meet schedule performance	6	STA
238	Quality Program is ineffective in processing the nonconformance items causing schedule impacts	6	STA
229	CN1300 System Acceptance Testing takes a prolonged amount of time	6	STA
230	SFMTA Commissioning Coordination (inaccurate time for coordination or participation from Muni Ops)	6	STA
261	Internal Staffing Resource Issue	6	GEN



## Program Safety & Security

On March 17, 2020, the Mayor and the City's Health Office issued a Public Health Order to "Shelter-In-Place" in response to the COVID-19 pandemic. While the City continues to observe restrictions from the City's Health Office, some of these restrictions have been adjusted as the conditions get worse. The City has reissued "Shelter-In-Place" order in response to the increasing cases of infection. The Contractors have implemented a revised site Safety and security plans to incorporate various requirements of the order. Construction of the Central Subway project continues to progress and Construction Management team continues to monitor progress and to monitor the Contractor and Subcontractors compliance with the site safety plan.

The Contractor reported five additional cases in December and all quarantined personnel have followed the appropriate procedures to return to work. Of the five cases, three cases were with the contractor (Tutor Perini) and the remaining two cases were with subcontractor (Fisk). The impacted labor forces are management and electricians and the current total number of quarantined staff for the year is twenty-three. The primary impacted trade group is the electrician trade (Fisk). Safety and CM team continues to monitor these cases to ensure compliance with the Safety and Security protocols. CM team has added additional resources to monitor these cases along with others that are already identified with the project. The schedule team continues to monitor impacts to the production rate with these reported cases. The project has determined that these restrictions have impacts to the project efficiency and schedule.

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 daily job briefings. Weekly safety meetings are held on a weekly basis so all staff has an opportunity to attend. In response to shelter-in place, we have transitioned the weekly in person safety meetings to interfacing online via the Microsoft teams app platform.

### **Safety Summary for the 1300 Stations Systems Track Construction Package**

In the months of November and December, there were no safety injuries.

### **Table 1300 Stations Construction Safety Record**

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

### **Next Month Look Ahead**

#### **1300 Contract**

1. At CTS, we continue to install overhead storm, sewer, water piping, refrigerant and fire sprinkler at Surface/Plaza levels.
2. At UMS, we continue to work on Station Agent Booth, installing cables for artwork and fire alarm.
3. At the YBM station, we continue to install doors, hardware, ceiling metal panels and pavers.
4. At the STS station, we continue traction power, fiber and other electrical conduit installation inside the tunnel.

# Program Safety & Security - continued

## Project Safety Record - Contract 1300

### SAFETY GOALS

Through Month End December 2020

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

JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	38	8	46	2.08
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	10	1	11	0.50
Total Project Incidents	48	9	57	2.58
Man Hours Worked Through M/E December 2020	2,179,467	2,240,491	4,419,958	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	7	2	9	2.93
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	0	0	0	0.00
Man Hours Worked Through M/E December 2020	184,976	429,080	614,056	

\* 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

The program has added staff to Construction Management and Safety team to monitor the new requirements related to COVID. Additionally, the Program continues to identify other staff for the construction management team. These staff are needed to provide support for the current construction activities and start-Up and Testing activities. These additional staff will supplement the existing staff to properly support ongoing effort to complete the project.



*Workers paving asphalt on Washington street.*



# Staffing

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

	Oct-2020		Nov-2020		Dec-2020	
	Planned	Actual	Planned	Actual	Planned	Actual
<b>Project Management</b>						
Program Management	6.60	4.75	6.60	4.75	6.60	4.75
Quality Assurance	1.80	1.00	1.80	1.00	1.80	1.00
Contract Administration	1.40	7.00	1.40	7.00	1.40	7.00
Community Outreach	5.50	2.00	5.50	2.00	5.50	2.00
Finance	2.00	0.00	2.00	0.00	2.00	0.00
Project Controls	4.80	4.65	4.80	4.65	4.80	4.65
<b>Subtotal</b>	<b>22.10</b>	<b>19.40</b>	<b>22.10</b>	<b>19.40</b>	<b>22.10</b>	<b>19.40</b>
<b>Construction Management</b>						
CM - CH 1252	0.00	0.00	0.00	0.00	0.00	0.00
CM - CH 1300	21.55	37.10	21.55	41.10	21.55	41.10
Design Support - CH 1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CH 1300	9.00	13.00	9.00	13.00	9.00	13.00
<b>Subtotal</b>	<b>30.55</b>	<b>50.10</b>	<b>30.55</b>	<b>54.10</b>	<b>30.55</b>	<b>54.10</b>
<b>Start Up</b>						
Start Up / Safety & Security	5.95	4.00	5.95	4.00	5.95	4.00
<b>Subtotal</b>	<b>5.95</b>	<b>4.00</b>	<b>5.95</b>	<b>4.00</b>	<b>5.95</b>	<b>4.00</b>
<b>Total</b>	<b>58.60</b>	<b>73.50</b>	<b>58.60</b>	<b>77.50</b>	<b>58.60</b>	<b>77.50</b>

\*FTE counts may change at a later date due to additional information becoming available, thereby, changing the numbers on the chart.

## 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.

The delivery of 24 vehicles related to Central Subway has been completed.



***Workers reading plans inside CTS making sure that everything is being installed correctly***



# central T subway

## Current Construction Activity



**Chinatown (CTS)**



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



**Yerba Buena/Moscone (YBM)**



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



Placeholder image until a real photo is available







*Electricians working on the ceiling wiring at CTS*



*Terrazzo staircase being installed at CTS*



# UMS



*View of the concourse walkway at Union Square Station*



*Platform level at UMS*



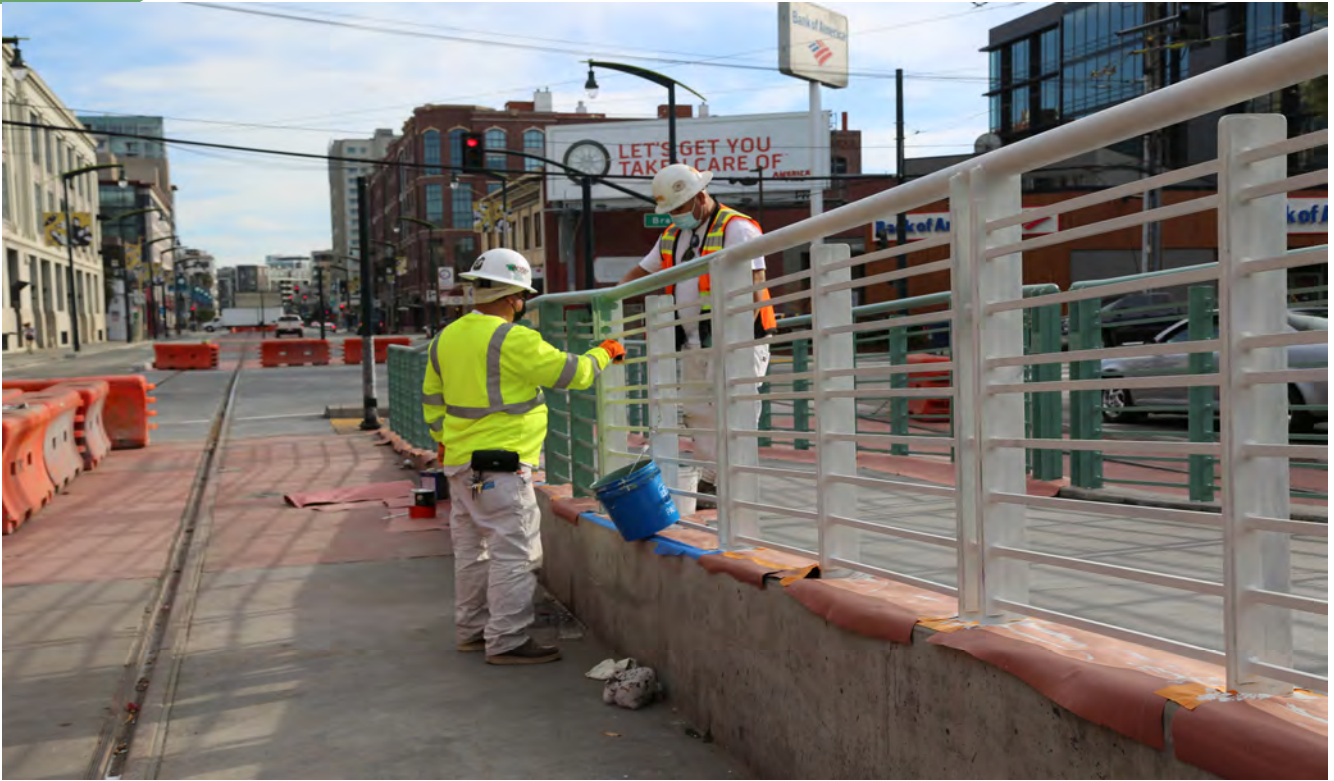


*Inside the agent booth at the YBM station*

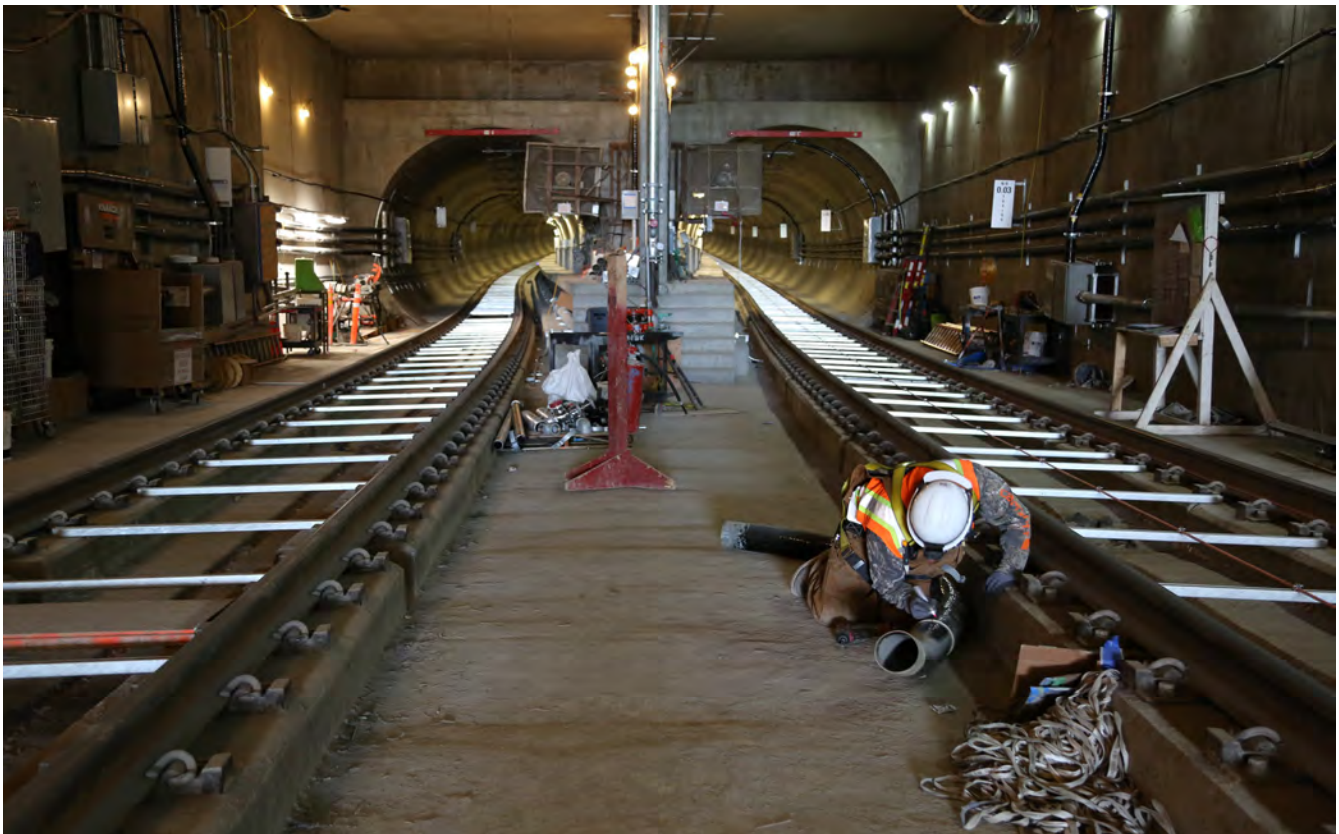


*View of the surface station at YBM*





*Workers painting the railing at a surface station along 4th*



*View of inside the portal*

*Appendix A*

**DETAIL COST REPORTS**

\*December 2020 Notice: The City continues to experience problems that were caused by error and inaccuracy from the transition from FAMIS to Financial System Project (FSP). An updated methodology has been implemented within the financial reporting that will provide more accurate figures for transactions occurring in fiscal year 2021.

**1. PROJECT COST**

The revised Cost Estimate (CCE) for the Central Subway Project is \$1.665 billion in year of expenditure dollars (\$YOE). The project is working with our funding partners to address the current funding shortfall. Currently, the project estimates the Estimate at Completion (EAC) to be \$1.793B or \$215M above the original budget of \$1.578B. These revised estimates have been shared with our board. Based on the additional funding requirement, the project has received additional \$87M from capital contingency funds. The project will continue to work with Finance and Grants to secure these additional \$128M which will come from redirecting flexible funds from other funded capital projects that are delayed and have alternate cash flow. EAC has been adjusted as additional cost related to claim settlements, contract modifications and delayed cost due to the current pandemic are identified. As the EAC is revised and the funds are identified, the team will update the various cost sheets to reflect the revised budget and EAC along with any impacted appendix. The team anticipates that this will take several reporting cycles to adjust as the update are delayed by one month based on the report. The team continues to work with SFMTA Finance and Grants to book funds as they are identified and become available to the program.

Total net incurred costs for the project are \$1,684.36 million, a \$10.04 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,610.11 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$60.63 million) and estimates of outstanding pay requests (\$1.14 million). The revised total project budget has is \$1.665 billion due to additional local funds received.

The current funding level to date has already been fully met which includes excess local funds consisting of Operating funds of \$63,679,086 appropriated in October 2020 . The original total project budget of \$1.578 billion has already completed its original funding of the program in July 2020. The project team will continue to work with our financial partners to ensure that impacts to the project are minimized and the additional funds are secured.

CONTRACT	PP NO	PP PERIOD		PROG PYMT AMOUNT
		TO		
CS155.1*	70	6/30/2016		\$ 24,327.00
CS155.1*	71	9/30/2016		\$ 65,000.00
CS155.1*	72	12/30/2016		\$ 50,000.00
CS155.1*	73	3/31/2017		\$ 35,282.00
CS155.2	128	10/31/2020		\$ 411,946.36
CS155.2*	129	11/30/2020		\$ 411,946.36
CS155.2*	130	12/31/2020		\$ 411,946.36
CS155.3	126	9/30/2020		\$ 209,388.10
CS155.3*	127	10/31/2020		\$ 209,388.10
CS155.3*	128	11/30/2020		\$ 209,388.10

CONTRACT	PP NO	PP PERIOD		PROG PYMT AMOUNT
		TO		
CS155.3*	129	12/31/2020		\$ 209,388.10
CN1300	86	11/30/2020		\$ 36,346,504.53
CN1300	87	12/31/2020		\$ 19,833,627.45
CS149	139	6/30/2020		\$ 1,466,252.17
CS149	140	7/31/2020		\$ 1,118,012.33
CS149	141	8/31/2020		\$ 1,244,148.56
CS149*	142	9/30/2020		\$ 1,520,000.00
CS149*	143	10/31/2020		\$ 1,520,000.00
CS149*	144	11/30/2020		\$ 1,320,000.00
CS149*	145	12/31/2020		\$ 1,580,000.00
other accruals*		12/31/2020		\$ (6,422,301.38)

\* Estimated Amount \$ 61,774,244.14



**2. CONTINGENCY ALLOCATIONS AND USAGE**

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, CN1300 Station processed two contract modifications. One dummy contract modification was created as a holding account to reconcile \$16,530,003 in costs that could not be associated with bid items and/or contract modifications. Refer to Report 7.5 for approved contract modifications and potential changes.

**3. BUDGET TRANSFERS**

CN1300 Station processed two contract modifications. A total cost of \$20,014,408, \$18,684,405 from SCC 50 and \$1,330,003 from SCC 20 was used to re-align SCC 40 category. There is a net budget transfer of \$0 in this reporting period due to the further drill down of SCC 10-50 categories; allocated contingency is in SCC 20 category. When a contract modification is processed, the funds are drawn from allocated contingency. Refer to Report 7.7 Column C for budget transfers.

**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 \$12.51 million.

TABLE A2: UTILITIES JOINT TRENCH FORM B DETAILS	[A] Mar 2015 BUDGET	[B] EXPENDED TO DATE	Associated Cost Account
1.3.491.07.040.02 - FORM B - CN1250 UTILITY REIMBURSEMENT	(2,275,419)	2,463,325	1.3.081.07.040.02 - 1UTL:SITWORK: UTILITIES & RELOC
1.3.491.08.040.02 - FORM B - CN1251 UTILITY REIMBURSEMENT	(7,618,412)	3,608,217	1.3.082.08.040.02 - 2UTL:SITWORK:UTILITIES&RELOCATE
1.3.491.02.040.02 - FORM B - CN1252 UTILITY REIMBURSEMENT	(254,050)	3,975,656	1.3.083.02.040.02 - TUNN:Sitework:Utilities & Relocate
1.3.491.04.040.02 - FORM B - CTS: CN1300 UTILITY REIMBURSEMENT	(451,703)	443,046	1.3.085.04.040.02 - CTS.1254: SITE UTILITIES, UTILITY RELOCA
1.3.491.09.040.02 - FORM B - STS: CN1300 UTILITY REIMBURSEMENT	(1,000,000)	1,053,691	
1.3.491.03.040.02 - FORM B - UMS: CN1300 UTILITY REIMBURSEMENT	(528,370)	467,600	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)	495,879	1.3.086.05.040.02 - YBM.1255: SITE UTILITIES, UTILITY RELOCA
<b>TOTAL</b>	<b>(12,227,954)</b>	<b>12,507,414</b>	

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

In December 2020 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA December Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

**Preliminary December Earned Value**

Overall Budgeted Cost:	\$1,664,487,192
Planned Value:	\$1,593,491,019
Earned Value:	\$1,481,212,749
Actual Cost:	\$1,684,357,366
Schedule Performance Index (SPI):	0.93
Cost Performance Index (CPI):	0.88
Percent Complete:	93.0%

SFMTA, EV Chart

DECEMBER 31, 2020 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>										
		03-Jun-03 A	06-Mar-24	92.95%	\$1,664,687,182.95	\$1,593,491,018.89	\$1,481,212,749.25	\$1,684,357,365.58	0.88	0.93
	Preliminary Engineering Phase	03-Jun-03 A	07-Jan-10 A	100%	\$46,542,061.34	\$46,542,061.02	\$46,542,061.02	\$46,542,060.53	1.00	1.00
	Final Design	08-Jan-10 A	17-Jun-13 A	100%	\$115,075,987.10	\$115,075,987.06	\$115,075,987.06	\$114,018,448.80	1.01	1.00
	Light Rail Vehicles	15-Apr-13 A	24-Jun-21	8.25%	\$16,800,000.00	\$26,385,653.00	\$2,177,131.58	\$11,929,246.72	0.18	0.08
	Real Estate	01-Aug-08 A	15-May-15 A	100%	\$32,140,417.71	\$37,405,895.00	\$37,405,895.00	\$30,543,064.53	1.22	1.00
	Construction Phase	03-Jan-10 A	06-Jul-23	94.22%	\$1,453,126,858.00	\$1,358,561,968.32	\$1,280,011,674.59	\$1,481,324,545.00	0.86	0.94
	Construction Support and Coals	03-Jan-10 A	06-Jul-23	98.28%	\$234,784,015.00	\$199,862,849.06	\$196,420,237.32	\$221,487,339.19	0.89	0.96
	Construction Utility Contract #1- MGS & Portal CN-1250	04-Jan-10 A	23-May-11 A	100%	\$11,968,150.00	\$11,968,150.00	\$11,968,150.00	\$11,968,150.00	1.00	1.00
	Construction Utility Contract #2 - UMS CN-1251	12-Jan-11 A	15-Oct-12 A	100%	\$20,669,081.47	\$20,794,582.00	\$20,794,582.00	\$20,669,081.47	1.01	1.00
	Construction Tunnels CN-1252	08-Jun-11 A	28-Dec-20	93.05%	\$233,511,253.03	\$251,068,047.23	\$233,608,974.28	\$233,511,253.34	1.00	0.93
	Construction STS P-1256-ATCS	20-May-14 A	18-Jun-21	53.87%	\$18,036,709.00	\$18,036,709.00	\$9,715,504.32	\$9,942,078.00	0.98	0.54
	Construction STS P-XXXX Radio	27-Aug-19 A	16-Apr-21	0.8%	\$4,809,852.50	\$4,841,950.49	\$38,735.60	\$32,098.00	1.21	0.01
	Construction CH-1300	03-Jun-13 A	05-Sep-21	94.77%	\$829,347,797.00	\$851,988,678.54	\$807,465,491.06	\$883,714,545.00	0.82	0.95
	Unallocated Contingency	28-Dec-20	30-Mar-22	0%	\$1,001,868.80	\$9,519,456.49	\$0.00	\$0.00	0.00	0.00
	Project Management	31-Mar-22	06-Mar-24	0%	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00

## 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 funding sources.

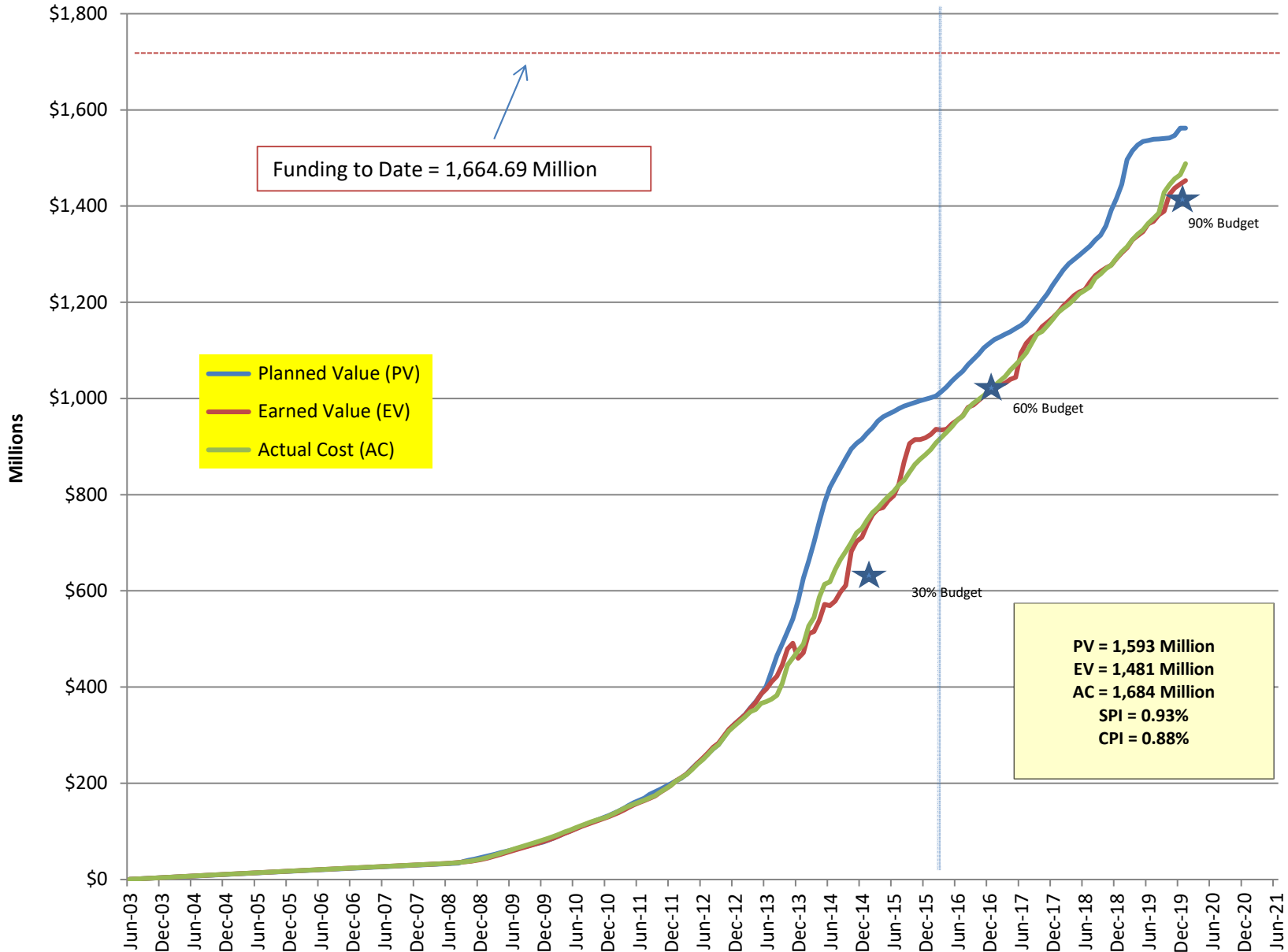
<b>Funding Available Table</b>		
	<b>Funding</b>	
	<b>Committed Funding Sources</b>	<b>Total Awarded Funds to Date</b>
<b>Federal</b>		
Sect. 5309-NS	\$942,200	\$942,200
Sect. 5307-OBAG	\$15,980	\$15,980
CMAQ	\$41,025	\$41,025
<b>Federal Subtotal</b>	<b>\$999,205</b>	<b>\$999,205</b>
<b>State</b>		
TCRP	\$14,000	\$14,000
State RIP	\$12,498	\$12,498
Prop. 1B (I-Bond)	\$308,601	\$312,236
PTIMSE		
Prop. 1A (HSR-Bond)	\$61,308	\$61,308
<b>State Subtotal</b>	<b>\$396,407</b>	<b>\$400,042</b>
<b>Local</b>		
LCTOP	\$4,000	\$4,000
Operating	\$4,970	\$98,957
MTA	\$0	\$475
Prop. B Pop Baseline	\$26,985	\$20,125
Prop. K	\$143,542	\$138,692
TSF Transit	\$3,191	\$3,191
<b>Local Subtotal</b>	<b>\$182,688</b>	<b>\$265,440</b>
<b>CPT 544 Total</b>	<b>\$1,578,300</b>	<b>\$1,664,687</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	\$1,601,008,106	J. Funghi	62% Fed, 30% State, 8% Local	yes	1
<b>Total:</b>		<b>\$1,601,008,106</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/Magary	MTA Operating Funds	no	2
3	CPT718 Chinatown Metro Plaza	\$6,980,000	J. Funghi	Transbay Redevelopment	no	3
4	CPT665 Central Subway Project - Goodwill	\$2,367,750	K. Magary	I-Bond Interest	no	4
5	CPT705 MOH - Broadway/Sansome	\$8,000,000	K. Magary	MTA Operating Funds	no	5
<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	\$328,860	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 Support for North Beach Restoration, OCS and	\$112,102	68W409	Contract 1252 CMod #48	yes	14
10	3/15/2016 Streetlighting	\$155,468	68T7373342D2/D3	Contract 1252 CMod #51	yes	15
11	6/27/2016 DPW - MOU for Water Line above YBM Station SFWD - 8' water line at the intersection of Fourth and	\$438,218	68W592	Contract 1300 CMod #20 Contract 1252 CMod #49 partial	yes	16
12	12/9/2016 Jessie Street	\$21,020	68W456	(\$2,102) and #60 Contract 1300 CMOD #123	yes	17
13	1/15/2020 CS-Chinatown Metro Plaza - CN1300	\$7,291,880	68CPT7181341	partial	yes	17a
<b>Total:</b>		<b>\$31,987,489</b>				

# Earned Value Cash Flow Curve



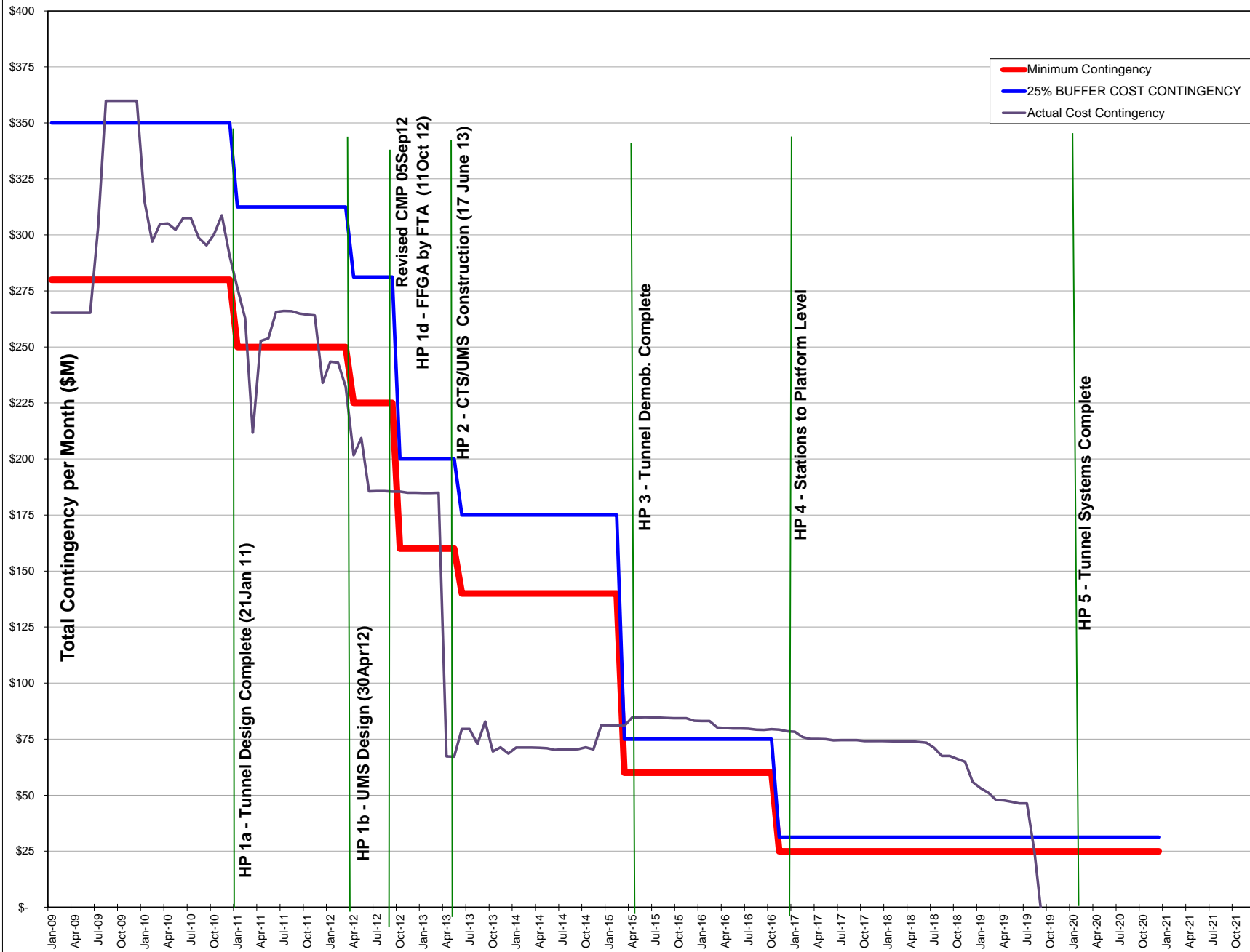
Funding to Date = 1,664.69 Million

Planned Value (PV)  
Earned Value (EV)  
Actual Cost (AC)

PV = 1,593 Million  
EV = 1,481 Million  
AC = 1,684 Million  
SPI = 0.93%  
CPI = 0.88%



# 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 (Include CN 1250 & CN1251)	CONTINGENCY ADJUSTMENT TRANSFERS	REVISED AUTHORIZED CONTINGENCY (Include CN1250 & CN1251)	REMAINING CONTINGENCY AFTER APPROVED CHANGES DEDUCTED [h - b]	REMAINING CONTINGENCY AFTER POTENTIAL CHANGES DEDUCTED [i - d]	ORIGINAL CONTRACT VALUE + REVISED AUTHORIZED CONTINGENCY [a + h]	BUDGET - ESTIMATE AT COMPLETE [j - e]	
	a	b	c	d	e	f	g	[f + g]	i	j	j	k	
<b>SCC 10-50 CONSTRUCTION CONTRACT PACKAGES</b>													
1250	UTILITY RELOCATION PACKAGE #1	9,273,939	2,694,211	11,968,150		11,968,150	1,953,377	740,834	2,694,211		11,968,150		18
	Contract 1250 Department of Technology	166,756		166,756		166,756					166,756		
1251	UTILITY RELOCATION PACKAGE #2	16,832,550	3,836,531	20,669,081		20,669,081	5,367,297	(1,530,766)	3,836,531		20,669,081		19
	Contract 1251 Department of Technology	75,615		75,615		75,615					75,615		
1252	GUIDEWAY TUNNEL	233,584,015	(72,762)	233,511,253	-	233,511,253	23,658,464	(23,731,226)	(72,763)		233,511,253	(1)	20
1300	STATIONS	839,676,400	166,575,357	1,006,251,757	54,755,005	1,061,006,761	20,000,000	31,617,894	107,708,105	(58,867,252)	947,384,505	(113,622,256)	21
	1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	20,744,337	314,774,927	6,855,234	321,630,161	5,000,000	15,000,000	20,000,000	(744,337)	314,030,590	(7,599,571)	
	1254 CHINA TOWN STATION [CTS]	247,567,810	62,581,923	310,149,733	44,740,528	354,890,261	5,000,000	16,617,894	21,617,894	(40,964,029)	269,185,704	(85,704,557)	22
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	4,889,959	162,978,959	2,150,769	165,129,728	5,000,000	10,000,000	15,000,000	10,110,041	173,089,000	7,959,272	
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	78,359,138	218,348,138	1,008,474	219,356,612	5,000,000	46,090,211	51,090,211	(27,268,927)	191,079,211	(28,277,401)	
OTHER		39,923,508	24,835,304	64,758,812		64,758,812	2,056,645	1,060,000	7,958,595	(16,876,709)	47,882,103	(16,876,709)	23
	SCC 10 - 50 Construction Sub-total	1,139,532,783	197,868,641	1,337,401,424	54,755,005	1,392,156,428	53,035,782	8,156,736	122,124,679	(75,743,961)	1,261,657,462	(130,498,966)	24
<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	32,246,321	0	25
70	VEHICLES	24,108,712	(7,308,712)	16,800,000		16,800,000	2,276,941	(2,276,941)	0	0	16,800,000	0	26
80	PROFESSIONAL SERVICES	310,518,041	41,105,077	351,623,118		351,623,118	18,221,079	(16,862,657)	1,358,422	1,358,422	352,981,540	1,358,422	26a
	SCC 60 - 80 Construction Sub-total	371,138,552	29,530,887	400,669,439	0	400,669,439	21,498,020	(20,139,598)	1,358,422	1,358,422	402,027,861	1,358,422	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	(2,844,076)	1,001,869	1,001,869	1,001,869	1,001,869	27
<b>TOTAL</b>		1,510,671,335	227,399,528	1,738,070,863	54,755,005	1,792,825,868	78,379,747	(14,826,938)	124,484,970	-	1,664,687,192	(128,138,676)	
											<b>Total Project Budget</b>	1,664,687,192	28
											<b>Estimate At Completion</b>	1,792,825,868	29
											<b>Variance</b>	128,138,676	30

Note #17 - Adjusted Contract 1252 Guideway Tunnel contingency "column g" to reflect construction contract modifications #20, #40, #41, #48, #51 and #60 were funded by other funding sources.

Contract Modification/Trend Log - Contract 1300 Stations

<b>Awarded NTE Amount</b>	<b>839,676,400</b>	<b>\$1,006,251,757</b>
<b>Substantial Completion</b>	<b>Spring 2021</b>	<b>Spring 2021</b>

	UMS	CTS	YBM	STS	COST REPORT NOTES
<b>Potential Changes</b>	<b>6,855,234</b>	<b>44,740,528</b>	<b>2,150,769</b>	<b>1,008,474</b>	<b>31</b>
<b>Change Order - Pending</b>					
CTS COR 2050 Grating at PlatformLvl		8,701			
CTS COR 2193 Top Guide Roller Syste		8,192			
CTS COR 2251 2" PVC Casings Con		0			
CTS COR 2300 Extruded Alum Shelf		0			
CTS PCC 875 Roof Gls & Art Supp Rev		0			
Job Readiness - CTS		(390,000)			
Job Readiness - STS				(140,000)	
Job Readiness - UMS	(390,000)				
Job Readiness - YBM			(140,000)		
STS COR 2266 Escalator Ultra violet				0	
STS COR 2289 Improper Rej DMI O&M T				0	
STS PCC 803 Add COVID Monitoring				143,538	
STS PCC 913 4th Brannan Water Meter				15,000	
UMS COR 1583 Absent HSS in ST DWG	298,759				
UMS PCC 394 Mezz. Corridor and Beam	539,772				
UMS PCC 650 Install SFMTA DT Cndts	166,508				
UMS PCC 842 Relocate Supply Fans at	33,943				
YBM COR 2329 Feeder P-T10-1 EP & TP			35,797		
YBM COR 915 Escala. 1-4 HVAC change			6,000		
YBM PCC 634 Stair 2 Revisions			4,796		
YBM PCC 638 Runnel gap at Escalator			50,000		
YBM PCC 905 Remove Duct Detectors			50,000		
CTS COR 1704 GEN Failure of Timely		0			
CTS COR 1966 Add'l Revision to Elev		3,955			
CTS COR 2047 Air Transfer Balance		0			
CTS COR 2058 Cntrct Dsgn Cmpln T24		0			
CTS COR 2165 Rebar at Stair 7 Slab		7,420			
CTS COR 2166 Layer of Rebar to CC A		15,123			
CTS COR 2177 GFRC-1 Support Frame C		0			
CTS COR 2206 Plaza Lvl Switchboards		0			
CTS COR 2213 Conduit & Control Wiri		52,019			
CTS COR 2270 Stair 6 Landing&Lights		0			
CTS COR 2285 Water Leaks in Headhou		0			
CTS COR 2298 Revised Framing Plaza		0			
CTS COR 2300 Extruded Alum Shelf		0			



Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount  
Substantial Completion

839,676,400  
Spring 2021

\$1,006,251,757  
Spring 2021

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 2307 DLV of Artwork		0			
CTS COR 2312 Gaps at Doors SU01A &		0			
CTS COR 2326 Plaza Level Stair Rail		0			
CTS COR 2327 Ceiling Layout Confl		0			
CTS COR 2328 Upper Mezz Fire Ext		0			
CTS COR 2330 Move Concrete Wall		12,708			
CTS COR 2331 25 Increase Slab		0			
CTS COR 2336 PSC RFI# CTS-1062		46,694			
CTS COR 2346 T&M Mfg. Costs		296,583			
CTS COR 2347 Plaza Stair Curb Reinf		0			
CTS COR 2357 Change GFRC Trim Size		58,158			
CTS COR 2369 Concourse Elev, HSS		0			
CTS COR 2385 Elev Rough Opening		24,543			
CTS COR 2395 Voltage Motor O&M		0			
CTS COR 2398 GFRC Soffit		60,110			
CTS COR 2402 Furnish HSKP Pads		1,000,952			
CTS COR 2406 Network Lighting Ctrl		0			
CTS COR 2414 Changes to Ceil Grid		0			
CTS COR 2416 Rev Floor Mounting		0			
CTS COR 2421 Sta Agt. Ceiling Deck		0			
CTS COR 2433 H Beam Angle Rev		54,760			
CTS COR 2437 Road Restor. @ WA St		99,820			
CTS COR 2438 Roof Edge Detail		0			
CTS COR 2439 Rail Power Feed		0			
CTS COR 2442 F6 Light Feat.		0			
CTS COR 2447 EXP Joint Cover		0			
CTS COR 2449 Circuit Breaker Change		0			
GEN COR 1686 T&M Delay Impacts	4,967,340				
STS COR 2002 All Stations Keying Sc				0	
STS COR 2362 Doors Project Delay Im				190,372	
STS COR 2364 Radio Route to CTS Com				10,731	
STS COR 2377 Provide Mounting Detai				0	
STS COR 2378 Radio Antenna Mounting				0	
STS COR 2379 Change to Radio Cable				0	
STS COR 2380 Radio Cable Mounting D				0	
STS COR 2382 Radiating Co-axial Cab				0	
STS COR 2383 Signal Power Wiring De				7,832	
STS COR 2384 Fisk Revised Substanti				0	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount  
Substantial Completion

839,676,400  
Spring 2021

\$1,006,251,757  
Spring 2021

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 2386 Re-Route Cable at UMS				15,362	
STS COR 2387 Radiax Cable routing a				14,164	
STS COR 2388 Splice Radio Cable at				14,152	
STS COR 2389 Mounting Details for J				19,218	
STS COR 2390 Termination Details fo				6,436	
STS COR 2391 ATCS Fiber Patching PI				0	
STS COR 2392 Emergency Ventilation				0	
STS COR 2396 Facility SCADA O & M M				0	
STS COR 2397 PDS System O & M Manua				0	
STS COR 2404 EV and FCP Training PI				0	
STS COR 2407 Platform Display syste				0	
STS COR 2434 Facilitate Routing of				84,722	
STS COR 2441 SCADA PLC Cabinet Powe				0	
STS COR 2444 FSS SCADA Points Updat				0	
STS COR 428 Sewer Roof Repair Detai				32,880	
STS COR 487 Re inspection of 4th an				98,281	
UMS COR 2295 Increase Stair Nosing	14,322				
UMS COR 2325 Powell Temp Barrier Wa	0				
UMS COR 2394 Voltage Motor Ctrl	0				
UMS COR 2412 Platform Artwork	0				
UMS COR 2426 Quantity & Mounting	0				
UMS COR 2445 Traction Power Panel	0				
USG COR 275 Conn. Plaza Grid B	0				
YBM COR 2301 End of Platform Gates			0		
YBM COR 2375 Access control for eme			200,287		
YBM COR 2399 Beam and Door Conflict			23,380		
YBM COR 2400 Finish Requirement to			40,570		
YBM COR 2401 Lighting Revisions			161,777		
YBM COR 2410 Overhead Coiling Grill			57,623		
YBM COR 2419 Emergency command Post			0		
YBM COR 2428 F17 Light Fixture layo			0		
CTS COR 1810 Aluminum Roll Up Door		0			
CTS COR 1886 Specs for Alum. Comp.		0			
CTS COR 1898 Concrete Wall Rebar to		0			
CTS COR 1924 Main Power Grating		0			
CTS PCC 593 Station Benches Change		0			
STS COR 2424 SS Box and GRS Conduit				103,685	
STS PCC 504 Traffic Control Require			43,060		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,006,251,757 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
STS PCC 807 Cross Passage Door Fram				50,668		
UMS COR 1753 Stair Framing Conflict	10,001					
UMS COR 1893 All Sta Martinez Steel	1,150,000					
YBM COR 390 Chip Mezzanine Headwall			60,005			
YBM PCC 748 Added FSDs in Sector 3			106,269			
YBM PCC 770 Revised Wall Panels			95,820			
<b>Proposed Contract Change (PCC)</b>						
CTS PCC 486Rev 1 Structural Slab Cha		38,107				
CTS PCC 548 Spot Acceleration		12,000,000				
CTS PCC 924 Access for Pipes at CMU		20,000				
CTS PCC 932 Power to Rails		10,000				
CTS PCC 937 Switchgear Anchor in TP		5,000				
CTS PCC628 Police Officer at Powell		150,000				
CTS PCC746 GFRC Framing Support		7,225				
STS Omnibus #2		30,543,097				
STS PCC 618 Mod Swoosh Arm P1 P2				9,410		
STS PCC 725 ATS for CP5 Sump Pump				32,173		
STS PCC 790 4th Street Portal Gate				150,000		
STS PCC 831 ATCS Equip Transport				49,850		
STS PCC 900 CCTV Media Converter				50,000		
STS PCC 921 OCS Dead End Revisions				50,000		
YBM PCC 817 Revise Spindle Length			10,000			
YBM PCC 889 Replace Transformer T-1			50,000			
YBM PCC 911 Anti-Static Flooring			5,000			
YBM PCC 926 Replace Disconnect			4,000			
YBM PCC 933 Lighting Revisions in M			90,000			
YBM PCC 935 Add Devices & Loc Chngs			40,000			
<b>Approved</b>	<b>20,744,337</b>	<b>62,581,923</b>	<b>4,889,959</b>	<b>78,359,138</b>		
<b>Contract Modification</b>						
CMod # 14 YBM COR 036, 078			58,526			
CMod #017 CTS CORs 001 053 & 069		54,322				
CMod #018 CTS PCC 012		60,248				
CMod #021 STS CORs 48/52/114/233/252				18,221		
CMod #025 - Various CORs			59,113			
CMod #026 YBM COR 072			84,509			
CMod #027 UMS PCC 092	0					
CMod #028 CTS PCC 017.1		97,743				
CMod #029 STS PCC 009.1					(143,668)	



Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,006,251,757 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CMod #033 CTS Various CORs		56,422				
CMod #034 CTS Various CORs		19,334				
CMod #035 STS PCC 077				11,147		
CMod #037 CTS Various CORs		8,886				
CMod #038 STS Various CORs				52,553		
CMod #039 UMS Various CORs	23,271					
CMod #040 YBM Analytical Soil Test			3,655			
CMod #049 STS DSC CORs				136,728		
CMod #050 STS DSC CORs				67,036		
CMod #053 STS DSC CORs				17,035		
CMod #081 Various DSC CORs & PCCs			57,886			
CMod #082 YBM COR 385			21,170			
CMod #083 YBM Various Changes			27,270			
CMod #084 YBM Various Changes			12,156			
CMod #085 YBM COR 086 Existing AT&T			156,831			
CMod #086 YBM COR 1106			1,897			
CMod #1 BART Elevator Option 1 @ Pow	90,000					
CMod #100 UMS PCC 102 Fire & Life	48,149					
CMod #102 STS PCC 410 ATCS Ext Cable				125,412		
CMod #103 UMS PCC 345 Lead Paint	221,766					
CMod #104 CTS Soil CMod Suppl CMOD19		1,621,173				
CMod #105 UMS Schedule Recovery	732,979					
CMod #106 CTS COR 1080 Acceleration		970,131				
CMod #107 YBM PCC 446 COR 1425			1,500,787			
CMod #108 STS Various Changes				50,400		
CMod #109 YBM 109 Various CORs			33,471			
CMod #11 UMS PCC 002	12,997					
CMod #110 UMS COR 251 770 779 781	118,911					
CMod #111 STS PCC 457 Traffic Signal				38,012		
CMod #112 UMS Various Changes	337,401					
CMod #113 STS Various Changes				103,369		
CMod #114 YBM Various CORs			99,028			
CMod #115 CTS Various Force Accounts		25,026				
CMod #116 UMS COR 034/CCC 004 Type B	627,081					
CMod #117 YBM Various PCCs			111,027			
CMod #123 CTS PCC 050 Chinatown Plaz		9,360,183				
CMod #124 STS Delete ARS				(4,876,785)		
CMod #125 Omnibus				18,995,027		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,006,251,757 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CMod #126 YBM Door Hardware PCC 318			1,648,534			
CMod #127 STS Office Lease				1,845,604		
CMod #128 STS Radio System Revisions				1,666,735		
CMod #13 CTS COR 006		57,707				
CMod #131 PCC 569 EVAC Fire Alarm				1,210,445		
CMod #133 CTS Frontier Temper Claims		10,382,106				
CMod #15 YBM COR 196			3,178			
CMod #16 UMS COR 184	8,261					
CMod #19 CTS COR 007, 026		2,274,225				
CMod #20 YBM PCC 047 and 45			364,562			
CMod #22 UMS PCC 045, 046	16,198					
CMod #23 UMS PCC 058	63,838					
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 #36 YBM Conflict with Waterline			14,484			
CMod #4 CTS-Force Account Change Or		130,000				
CMod #41 YBM Class 2 Conta. Material			40,250			
CMod #42 UMS Addl. Service Conduits	36,873					
CMod #44 UMS Grade 50 Steel	572,884					
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 #5 YBM Deletion of Comp Groutin			(1,833,869)			
CMod #51 YBM Various CORs and PCCs			24,875			
CMod #52 YBM Undgrnd. Storage Tanks			167,393			
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 #59 CTS DSC CORs		66,592				
CMod #6 CTS Plaza Constr Supt Servi		75,000				
CMod #60 UMS USG Two Fuel Tanks	61,312					
CMod #61 YBM Various CORs			207,181			
CMod #62 UMS Wales and Waterproofing	277,714					

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,006,251,757 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CMod #63 CTS DSC CORs		38,025				
CMod #64 STS DSC CORs and SFWD				52,570		
CMod #65 UMS Various CORs and PCCs	10,320					
CMod #66 STS Sewer Notching				66,949		
CMod #67 UMS Solar/Low-e Coating	23,290					
CMod #68 STS Various CORs				59,555		
CMod #69 UMS Various CORs	49,682					
CMod #70 YBM Various CORs			178,079			
CMod #71 UMS Haz and Asbestos Abate	81,907					
CMod #72 YBM COR 249. 566			74,694			
CMod #74 UMS PCC 39 12" Wtrln Reloc	336,236					
CMod #75 UMS COR 060 New 8" Wtr Line	58,672					
CMod #76 YBM COR 806 Gardril credits			(9,611)			
CMod #77 STS Various Changes				56,629		
CMod #78 STS Various DSC CORs				191,175		
CMod #79 STS PCC 014 Traffic Signal				242,427		
CMod #80 STS Add'l Work to DSCs CORs				111,701		
CMod #87 CTS Var Slurry Wall Changes		3,596,000				
CMod #88 STS Various COR Misc Work				38,346		
CMod #89 YBM CORs 390,485 & 848			85,095			
CMod #9 YBM COR 10,15,16,18,20,25			126,663			
CMod #90 CTS DRB Reimbursement		1,296,364				
CMod #91 YBM PCC 069			84,537			
CMod #92 CTS PCC 233 & 26		1,126,478				
CMod #93 STS Coordinate of ATCS Work				(18,036,709)		
CMod #94 UMS Various Changes	46,057					
CMod #95 UMS Bart Elv Opt 2 Add Cost	400,000					
CMod #96 UMS Comp Grout Quantities	775,000					
CMod #97 STS COR 322 Tunnel Cleaning				399,000		
CMod #98 YBM PCC 76 AWSS SSFM			163,113			
CMod #99 UMS Various Changes	996,584					
CMod 073 - PCC 066 PB				96,516		
CMOD 24 STS PCC 23				108,053		
CMod#119: UMS: Various Changes PCC 110, 124, 127 190, 191, 247, and 429	131,687					
CMod#120: UMS: PCC 122R1 - UMS 1 1/2 inch Drain Piping Grout Details - Dowel Support	560,280					
CMod#121: YBM: Various Changes COR 825, 1359, 1610 and PCC 320R1			142,904			
CMod#132 STS - CCC 105 Impacts of DSCs and Design Changes to Valverde				11,800,000		

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

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,006,251,757 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
Cmod#134: STS - Omnibus 1 Settlement				29,848,737		
Cmod#135: UMS - Layne Claims	13,000,000					
CMod#7 STS FACOs 016, 017 &COR 009				80,170		
CMod#8 STS PCC 006 ATT MH, PB&Trench				225,208		
Cmod#884 UMS - Automobile Bus Acceleration - dummy	0					
Cmod#885: CTS - Communications - dummy		0				
Cmod#886: YBM - Communications - dummy			0			
Cmod#889: STS - Automobile Bus Acceleration -dummy				16,530,003		
CTS CMod #122 Schedule Delay Costs		31,240,000				
STS CMod 045 PCC 008 Tunnel Lowering				107,285		
<b>Grand Total</b>	<b>27,599,571</b>	<b>107,322,451</b>	<b>7,040,728</b>	<b>79,367,612</b>		



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

Report Period: December 2020

		November 2020			December 2020				
Group by Contract & SCC	CATEGORY ITEM	November 2020 Base	November 2020 Allocated Contingency	November 2020 Base + Allocated Contingency (YOE)	December 2020 Base	December 2020 Allocated Contingency	December 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [December 2020] vs. [November 2020]	Cost Report Notes
10-50	<b>CONSTRUCTION CONTRACT PACKAGES</b>	1,331,229,471	(74,413,957)	1,261,657,464	1,332,559,474	(75,743,960)	1,261,657,464	0	
1250	UTILITY RELOCATION PACKAGE #1	12,134,906		12,134,906	12,134,906		12,134,906	0	
	Contract 1250 Form B Credit	(2,275,419)		(2,275,419)	(2,275,419)		(2,275,419)	0	
1251	UTILITY RELOCATION PACKAGE #2	20,744,696		20,744,696	20,744,696		20,744,696	0	
	Contract 1251 Form B Credit	(7,618,412)		(7,618,412)	(7,618,412)		(7,618,412)	0	
1252	GUIDEWAY TUNNEL	233,511,253	0	233,511,253	233,511,253	0	233,511,253	0	32
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
1300	<b>CN1300 STATIONS TOTAL</b>	<b>1,004,921,754</b>	<b>(75,573,957)</b>	<b>929,347,797</b>	<b>1,006,251,757</b>	<b>(76,903,960)</b>	<b>929,347,797</b>	<b>0</b>	33
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	322,354,952	(8,324,362)	314,030,590	314,774,927	(744,337)	314,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	317,060,516	(47,874,812)	269,185,704	310,149,733	(40,964,029)	269,185,704	0	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	174,752,580	(1,663,579)	173,089,001	162,978,959	10,110,042	173,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	190,753,705	(17,711,203)	173,042,502	218,348,138	(45,305,636)	173,042,502	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>79,912,062</b>	<b>1,160,000</b>	<b>81,072,062</b>	<b>79,912,062</b>	<b>1,160,000</b>	<b>81,072,062</b>	<b>0</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	1,060,000		1,060,000	1,060,000		1,060,000	0	33
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	34
50.01	THALES T&S ATCS	487,972		487,972	487,972		487,972	0	
50.01	CN1266-2 Advanced Train Control System (ATCS) - Implementation	15,507,930		15,507,930	15,507,930		15,507,930	0	34a
50.01	CN1266-1 Advanced Train Control System (ATCS) - Equipment	3,425,424		3,425,424	3,425,424		3,425,424	0	34a
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 &amp; SOFT COSTS

Report Period: December 2020

		November 2020			December 2020				
Group by Contract & SCC	CATEGORY ITEM	November 2020 Base	November 2020 Allocated Contingency	November 2020 Base + Allocated Contingency (YOE)	December 2020 Base	December 2020 Allocated Contingency	December 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [December 2020] vs. [November 2020]	Cost Report Notes
40.02	JOB ORDER CONTRACTS (JOCS) - CONSTRUCTION	117,255		117,255	117,255		117,255	0	
40.08	AON RISK INSURANCE	26,778,757		26,778,757	26,778,757		26,778,757	0	34b
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	
50.05	CSP Radio Design	641,950		641,950	641,950		641,950	0	34c
50.05	CSP Radio Cable	377,788		377,788	377,788		377,788	0	34c
50.05	CSP Radio Design Procurement	3,822,212		3,822,212	3,822,212		3,822,212	0	34c
60	<b>ROW, LAND, EXISTING IMPROVEMENTS</b>	<b>32,246,321</b>	<b>0</b>	<b>32,246,321</b>	<b>32,246,321</b>	<b>0</b>	<b>32,246,321</b>	<b>0</b>	
60.01	PURCHASE OR LEASE OF REAL ESTATE	30,065,810	0	30,065,810	30,065,810	0	30,065,810	0	35
60.02	RELOCATION OF EXISTING HOUSEHOLDS	2,180,511		2,180,511	2,180,511		2,180,511	0	
70	<b>VEHICLES</b>	<b>16,800,000</b>	<b>0</b>	<b>16,800,000</b>	<b>16,800,000</b>	<b>0</b>	<b>16,800,000</b>	<b>0</b>	
70.01	LIGHT RAIL	16,800,000	0	16,800,000	16,800,000	0	16,800,000	0	36
80	<b>PROFESSIONAL SERVICES</b>	<b>351,623,116</b>	<b>1,358,422</b>	<b>352,981,538</b>	<b>351,623,116</b>	<b>1,358,422</b>	<b>352,981,538</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	104,154,348	0	104,154,348	104,154,348	0	104,154,348	0	36a

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

Report Period: December 2020

		November 2020			December 2020				
Group by Contract & SCC	CATEGORY ITEM	November 2020 Base	November 2020 Allocated Contingency	November 2020 Base + Allocated Contingency (YOE)	December 2020 Base	December 2020 Allocated Contingency	December 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [December 2020] vs. [November 2020]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	117,060,152	0	117,060,152	117,060,152	0	117,060,152	0	36a
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>1,731,898,908</b>	<b>(73,055,535)</b>	<b>1,663,685,323</b>	<b>1,733,228,911</b>	<b>(74,385,538)</b>	<b>1,663,685,323</b>		37
90	UNALLOCATED CONTINGENCIES			1,001,872			1,001,872	0	38
	<b>TOTAL PROJECT COST 10 TO 100</b>			<b>1,664,687,196</b>			<b>1,664,687,196</b>		
	<b>TOTAL CONTINGENCY</b>			-			-		
	<b>CONTINGENCY MINIMUM</b>			-			-		
	<b>BELOW OR ABOVE MINIMUM</b>			-			-		

COST STATUS BY CATEGORY	SCC CODES	Sum of Supplemental 2013 Budget	BUDGET November 2020	BUDGET TRANSFERS	BUDGET December 2020	Sum of December 2020	Remaining Budget (Column H-Column I)	December 2020 EAC	December 2020 Contingency	Cost Report Notes
		A	B	C	D	E	F	G	H	
GUIDEWAY & TRACK ELEMENTS	SCC 010	282,227,872	284,261,448	-	284,261,448	283,565,573	695,875	284,261,448	-	39
STATIONS, STOPS, TERMINALS, INTERMODAL SITEWORK & SPECIAL CONDITIONS	SCC 020	573,099,645	489,501,970	(1,330,003)	488,171,967	545,302,042	(57,130,075)	579,549,211	-	39
SYSTEMS	SCC 040	235,514,097	350,087,859	20,014,408	370,102,267	370,846,839	(744,572)	409,165,197	-	39
ROW, LAND, EXISTING IMPROVEMENTS	SCC 050	90,774,397	137,806,186	(18,684,405)	119,121,781	104,643,357	14,478,424	119,180,572	-	39
VEHICLES	SCC 060	37,511,799	32,246,321	-	32,246,321	30,648,969	1,597,352	32,246,321	-	
PRELIM ENGINEERING	SCC 070	26,385,653	16,800,000	-	16,800,000	11,929,247	4,870,753	16,800,000	-	
FINAL DESIGN	SCC 080.01	46,202,673	46,202,674	-	46,202,674	46,202,675	(1)	46,202,674	-	
PM FOR DESIGN & CONSTRUCTION	SCC 080.02	61,137,604	61,318,331	-	61,318,331	61,266,804	51,527	61,318,331	-	
OTHER PROF SRVCS	SCC 080.03 - 080.04	197,146,664	221,214,500	-	221,214,500	216,414,750	4,799,750	221,214,500	-	39
UNALLOC CONTINGENCY	SCC 080.05 - 080.08	24,416,118	24,246,033	-	24,246,033	13,537,110	10,708,923	22,887,611	-	
Grand Total	SCC 090	3,883,480	1,001,869	-	1,001,869	-	1,001,869	-	1,001,872	39
		<b>1,578,300,000</b>	<b>1,664,687,192</b>	<b>0</b>	<b>1,664,687,192</b>	<b>1,684,357,366</b>	<b>(19,670,174)</b>	<b>1,792,825,866</b>	<b>1,001,872</b>	



SCC DESCRIPTION	December 2020 BUDGET	December 2020 CTD
010 - GUIDEWAY & TRACK ELEMENTS	284,261,448	283,565,573
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	489,501,970	545,302,042
040 - SITEWORK & SPECIAL CONDITIONS	350,087,859	370,846,839
050 - SYSTEMS	137,806,186	104,643,357
060 - ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	30,648,969
070 - VEHICLES (number)	16,800,000	11,929,247
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	352,981,538	337,421,339
090 - UNALLOCATED CONTINGENCY	1,001,869	0
<b>Grand Total</b>	<b>1,664,687,192</b>	<b>1,684,357,366</b>

SCC DESCRIPTION	December 2020 BUDGET	December 2020 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	2,860,000
010.06-Guideway: Underground cut & cover	69,816,407	69,510,264
010.07-Guideway: Underground tunnel	200,374,315	199,989,015
010.09-Track: Direct fixation	6,761,089	6,756,657
010.12-Track: Special (switches, turnouts)	4,449,637	4,449,637
020.01-At-grade station, stop, shelter, mall, terminal, platform	7,602,857	6,880,095
020.02-Aerial station, stop, shelter, mall, terminal, platform	(17,711,203)	0
020.03-Underground station, stop, shelter, mall, terminal, platform	467,938,241	516,949,907
020.04-OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0
020.07-Elevators, escalators	22,311,892	21,472,040
040.01-Demolition, Clearing, Earthwork	12,754,615	12,495,015
040.02-Site Utilities, Utility Relocation	68,753,443	79,348,168
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	9,423,125	8,386,373
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	851,713
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	5,427,721
040.07-Automobile, bus, van accessways including roads, parking lots	45,943,431	22,981,009
040.08-Temporary Facilities and other indirect costs during construction	199,592,921	238,650,409
050.01-Train control and signals	45,108,633	35,663,196
050.02-Traffic signals and crossing protection	12,804,956	12,183,243
050.03-Traction power supply: substations	21,465,073	20,631,471
050.04-Traction power distribution: catenary and third rail	12,441,113	4,398,096
050.05-Communications	37,271,825	29,201,125
050.06-Fare collection system and equipment	6,100,000	841,265
050.07-Central Control	2,614,586	1,724,962
060.01-Purchase or lease of real estate	30,065,810	28,239,539
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	16,800,000	11,929,247
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,266,804
080.03-Project Management for Design and Construction	89,154,348	84,378,171
080.04-Construction Administration & Management	132,060,152	132,036,579
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	6,288,730
080.07-Surveys, Testing, Investigation, Inspection	933,100	908,184
080.08-Start up	8,300,329	0
090.00-Unallocated Contingency	1,001,869	0
<b>Grand Total</b>	<b>1,664,687,192</b>	<b>1,684,357,366</b>

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<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>	40	
11 - SFMTA PROJECT MANAGEMENT	8,800,164	8,253,957	0	0	8,253,957	546,208	41	
12 - SFMTA ENGINEERING SERVICES	11,425,594	11,425,594	0	0	11,425,594	0	42	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	921,906	802,883	0	0	802,883	119,023		
21 - ARTS COMMISSION	1,500,570	1,500,570	0	0	1,500,570	0	43	
22 - FIRE DEPARTMENT	33,825	35,343	0	0	35,343	(1,518)		
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	336,735	0	0	336,735	0	44	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	3,336,432	3,336,432	0	0	3,336,432	0		
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	45	
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	26,793,234	26,793,234	0	0	26,793,234	0	46	
66 - ANIL VERMA	395,204	395,204	0	0	395,204	0	47	
67 - HILL INTERNATIONAL CONTRACT 156	6,716,294	6,716,294	0	0	6,716,294	0	48	
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	49	
72 - STATIONS - CONTRACT # CONTRACT 155-2	26,220,609	26,220,609	0	0	26,220,609	0	50	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	11,432,312	11,432,312	0	0	11,432,312	0	51	
331 - BAY AREA RAPID TRANSIT (BART)	146,427	146,427	0	0	146,427	0		
332 - SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY (SFCTA)	0	65,978	32,655	0	65,978	(65,978)		
<b>TOTAL FINAL DESIGN</b>	<b>115,075,988</b>	<b>114,018,448</b>	<b>32,655</b>	<b>0</b>	<b>114,018,448</b>	<b>1,057,539</b>		
11 - SFMTA PROJECT MANAGEMENT	20,500,000	18,701,709	291,346	70,202	18,771,911	1,728,089		
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	20,500,000	18,701,709	291,346	70,202	18,771,911	1,728,089		
12 - SFMTA ENGINEERING SERVICES	2,923,582	3,091,211	16,080	8,721	3,099,932	(176,350)		
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	3,033,563	16,080	8,721	3,042,285	(242,285)		
13 - SFMTA CONSTRUCTION MANAGEMENT	27,002,275	25,367,010	389,770	97,986	25,464,996	1,537,279		
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	27,002,275	25,367,010	389,770	97,986	25,464,996	1,537,279		
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	2,807,094	41,997	13,564	2,820,659	838,654		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	398,631	23,837	1,683	400,314	(100,714)		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	150,187	1,812	1,130	151,317	123,583		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	225,532	272	359	225,890	12,510		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	326,423	9,033	10,392	336,815	540,061		
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)		

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1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B86]	0	204,261	0	0	204,261	(204,261)		
1.3.016.06.040.02 - DPT:DPT TRAFFIC SHOP CONTRACT 1300	1,200,000	0	0	0	0	1,200,000		
1.3.016.07.080.04 - DPT:SSD DS/CN: 1UTL		0	0	0	0	0		
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	163,411	0	0	163,411	(163,411)		
1.3.016.04.040.08 - PCOS:1300/CTS [68CPT544132X.CPT544132X]	0	0	0	0	0	0		
1.3.016.05.040.08 - PCOS:1300/YBM [68CPT544132Y.CPT544132Y]	0	207,537	0	0	207,537	(207,537)		
1.3.016.09.040.08 - PCOS:1300/STS [68CPT544132Z.CPT544132Z]	0	252,092	7,043	0	252,092	(252,092)		
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	134,385	0	2,895	137,280	262,720		
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	45,887	0	2,895	48,782	51,218		
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300 - UMS O/L	50,255	73,817	0	0	73,817	(23,561)		
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300/UMS	249,745	14,681	0	0	14,681	235,063		
19 - OTHER SFMTA	1,000,000	945,836	0	0	945,836	54,164		
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	1,800	1,720	0	0	1,720	80		
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 DURI	848,200	817,966	0	0	817,966	30,234		
21 - ARTS COMMISSION	12,010,886	6,348,439	13,454	8,754	6,357,193	5,653,693		
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCTION COSTS	3,769,932	0	0	0	0	3,769,932		
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [1227]	1,719,387	388,167	0	0	388,167	1,331,220	52	
1.3.021.01.080.04 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT544122]	21,000	12,465	0	0	12,465	8,535		
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.132J]	834,264	941,880	9,000	4,635	946,516	(112,251)		
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFUNA.CPT544132]	10,149	11,093	0	0	11,093	(944)		
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT544132]	4,439	4,439	0	0	4,439	0		
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT5441327.CPT5441327]	1,393,660	1,393,660	0	0	1,393,660	0		
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA.CPT5441327]	3,011,963	3,596,735	4,454	4,119	3,600,854	(588,891)		
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	2,802,830	0	0	2,802,830	(631,049)		
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	2,802,830	0	0	2,802,830	(631,049)		
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)		
26 - PLANNING	137,062	26,697	0	0	26,697	110,365		
1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	26,697	0	0	26,697	110,365		
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	4,291,033	31,513	8,571	4,299,604	(57,592)		
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	524,233	7,287	971	525,204	(126,804)		



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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	633,797	0	0	633,797	(27,443)		
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	37,086	2,578	893	37,979	192,021		
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	231,447	17,717	5,080	236,526	35,229		
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	55,773	0	0	55,773	59,227		
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	506,138	1,419	0	506,138	(55,856)		
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	98,643	0	0	98,643	85,357		
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	225,079	249,247	0	0	249,247	(24,168)		
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 [3BB]	0	88,879	0	0	88,879	(88,879)		
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: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	499,267	2,512	1,627	500,894	19,183		
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	257,294	0	0	257,294	(50,294)		
<b>32 - DPW - IDC ENGINEERING (HYDRAULIC)</b>	<b>1,150,459</b>	<b>560,763</b>	<b>0</b>	<b>0</b>	<b>560,763</b>	<b>589,696</b>		
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	130,415	0	0	130,415	167,523		
1.3.032.04.080.04 - DPW IDC HYDRAULIC CN1300 CTS SUPPORT	295,639	22,125	0	0	22,125	273,514		
1.3.032.05.080.04 - DPW IDC HYDRAULIC CN1300 YBM SUPPORT	301,882	58,932	0	0	58,932	242,950		
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112B112]	85,275	85,275	0	0	85,275	0	53	
1.3.032.06.080.04-1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C112]	109,658	109,658	0	0	109,658	0	54	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D112]	15,791	15,791	0	0	15,791	0	55	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E112]	11,193	11,193	0	0	11,193	0	56	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F112]	107,798	107,798	0	0	107,798	0	57	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G112]	21,690	47,917	0	0	47,917	(26,227)	58	
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	257,065	0	0	257,065	(77,065)		
<b>34 - DPW - IDC CONSTRUCTION (CAPITAL)</b>	<b>6,703,969</b>	<b>6,345,071</b>	<b>0</b>	<b>0</b>	<b>6,345,071</b>	<b>358,898</b>		
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	506,858	0	0	506,858	0		
1.3.034.06.080.04 - DPW:CONSTR:1300 CM [13CP12]	2,710,969	2,352,071	0	0	2,352,071	358,898		
<b>36 - DPW - BSM INFRASTRUCTURE (MAPPING)</b>	<b>465,562</b>	<b>158,741</b>	<b>0</b>	<b>0</b>	<b>158,741</b>	<b>306,821</b>		
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	92,977	0	0	92,977	(44,544)		
<b>37 - DPW - PCS MATERIAL TESTING LABORATORY</b>	<b>83,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>83,100</b>		
1.3.037.01.080.07 - DPW.MTL.LABDPW-MATERIAL TESTIN	83,100	0	0	0	0	83,100		
<b>39 - DPW - PCS SITE ASSESSMENT &amp; REMEDIATION (SAR)</b>	<b>613,853</b>	<b>438,455</b>	<b>0</b>	<b>0</b>	<b>438,455</b>	<b>175,398</b>		
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		

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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 [13C]	18,632	16,880	0	0	16,880	1,753		
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1300 [13C]	41,379	24,761	0	0	24,761	16,618		
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	677,805	1,446	396	678,201	92,642		
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	635,325	0	0	635,325	61,428		
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	29,202	147	396	29,598	25,402		
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM TRAILER	9,090	12,222	1,300	0	12,222	(3,132)		
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	59	
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	78,399,948	73,707,502	1,320,000	1,580,000	75,287,502	3,112,446		
1.3.063.01.080.03 - CM:PM:AECOM.CS149 OM-EPC JV CS149-PM	5,017,804	5,017,804	0	0	5,017,804	0	60	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3B]	1,969,213	1,969,213	0	0	1,969,213	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3E]	6,386,250	6,386,250	0	0	6,386,250	(0)		
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]	4,101,465	4,101,466	0	0	4,101,466	(0)		
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]	5,167,381	5,167,381	0	0	5,167,381	(0)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3G][PM]	1,291,845	1,291,845	0	0	1,291,845	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3H]	4,380,849	4,380,849	0	0	4,380,849	(0)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3H][PM]	1,095,212	1,095,212	0	0	1,095,212	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3i]	6,739,945	5,582,974	0	0	5,582,974	1,156,971		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3i][PM]	2,590,785	1,395,744	0	0	1,395,744	1,195,041		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3j]	7,000,000	6,081,401	0	0	6,081,401	918,599		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3j][PM]	2,000,000	1,520,350	0	0	1,520,350	479,650		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3m]	9,400,000	9,957,265	1,056,000	1,264,000	11,221,265	(1,821,265)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3m][PM]	2,350,000	2,489,316	264,000	316,000	2,805,316	(455,316)		
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]	515,694	515,694	0	0	515,694	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9E]	523,943	523,943	0	0	523,943	0		
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]	501,912	501,912	0	0	501,912	0		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9H]	1,219,093	1,219,093	0	0	1,219,093	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9i]	2,974,444	3,039,000	0	0	3,039,000	(64,556)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9j]	3,000,000	2,275,598	0	0	2,275,598	724,402		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9m]	1,500,000	521,080	0	0	521,080	978,920		

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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	0					0		
64 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855	61	
1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855		
67 - HILL INTERNATIONAL CONTRACT 156	3,031,391	2,848,817	0	0	2,848,817	182,574		
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.CPT5441]	883,631	883,631	0	0	883,631	(0)		
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2017 [68CPT5441346.CPT5441]	566,925	384,352	0	0	384,352	182,573		
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	255,144	0	0	255,144	244,856	62	
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	255,144	0	0	255,144	244,856		
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	2,158,846	2,215,889	0	0	2,215,889	(57,043)		
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	63	
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	2,158,846	2,303,091	0	0	2,303,091	(144,245)		
72 - STATIONS - CONTRACT # CONTRACT 155-2	18,341,336	22,122,415	462,241	994,352	23,116,768	(4,775,431)		
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	51,351	61,130	0	0	61,130	(9,779)	64	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	18,289,985	22,061,285	462,241	994,352	23,055,637	(4,765,652)		
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	6,909,210	380,719	531,348	7,440,558	(2,612,289)		
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	6,819,419	380,719	531,348	7,350,767	(2,612,498)		
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	20,669,081	20,669,081	0	0	20,669,081	(0)	65	
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	10,202,543	10,202,543	0	0	10,202,543	(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>233,511,253</b>	<b>233,511,253</b>	<b>0</b>	<b>0</b>	<b>233,511,253</b>	<b>0</b>		
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE	233,584,015	233,584,015	0	0	233,584,015	0	66	
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	105,423,090	0	0	105,423,090	0		
1.3.083.02.020.03 - CONTRACT 1252: STATIONS: UNDERGROUND	21,685,000	21,685,000	0	0	21,685,000	0		
1.3.083.02.040.01 - CONTRACT 1252:SITWORK:DEMO CLEARING	2,440,000	2,440,000	0	0	2,440,000	0		
1.3.083.02.040.02 - CONTRACT 1252:SITWORK:UTILITIES & RE	10,895,000	10,895,000	0	0	10,895,000	0		
1.3.083.02.040.03 - CONTRACT 1252:SITWORK:HAZMAT&MITIGAT	200,000	200,000	0	0	200,000	0		
1.3.083.02.040.04 - CONTRACT 1252:SITWORK:ENVIRON. MITIG	300,000	300,000	0	0	300,000	0		

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1.3.083.02.040.06 - CONTRACT 1252:SITWORK:PED/BIKE ACCES	50,000	50,000	0	0	50,000	0		
1.3.083.02.040.07 - CONTRACT 1252:SITWORK:AUTO/BUS ACCES	1,345,000	1,345,000	0	0	1,345,000	0		
1.3.083.02.040.08 - CONTRACT 1252:SITWORK:TEMP FACILITIE	30,799,500	30,799,500	0	0	30,799,500	0		
<b>83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMODs</b>	<b>(72,762)</b>	<b>(72,762)</b>	0	0	<b>(72,762)</b>	0	67	
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	1,810,094	1,810,094	0	0	1,810,094	0		
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	1,035,588	0	0	1,035,588	(0)		
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	(4,488,326)	(4,488,326)	0	0	(4,488,326)	0		
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	0	0	0	0	0	0	68	
<b>CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL</b>	<b>929,347,797</b>	<b>976,991,117</b>	<b>36,153,579</b>	<b>6,723,427</b>	<b>983,714,545</b>	<b>-54,366,748</b>	69	
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253</b>	<b>294,030,590</b>	<b>289,699,821</b>	<b>241,329</b>	<b>185,642</b>	<b>289,885,463</b>	<b>4,145,127</b>	21	
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	251,354,048	212,298	82,275	251,436,323	1,645,129		
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	9,106,679	0	71,517	9,178,196	287,498		
1.3.084.03.040.01 - UMS.1253: DEMOLITION CLEARING	6,071,588	6,071,588	0	0	6,071,588	0		
1.3.084.03.040.02 - UMS.1253: SITE UTILITIES UTIL	4,360,395	4,360,395	0	0	4,360,395	0		
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	322,499	0	0	322,499	227,501		
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	194,500	0	0	194,500	50,000		
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	18,969	647	0	18,969	0		
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,158,410	1,047,609	0	0	1,047,609	110,801		
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	10,096,359	962	0	10,096,359	1,043,342		
1.3.084.03.050.02 - UMS.1253: TRAFFIC SIGNALS AND	4,773,076	4,773,076	0	0	4,773,076	0		
1.3.084.03.050.03 - UMS.1253: TRACTION POWER SUPPL	1,815,534	1,079,909	16,250	0	1,079,909	735,625		
1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	191,708	7,952	0	191,708	25,249		
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	1,082,482	3,220	31,850	1,114,332	19,982		
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs</b>	<b>20,744,337</b>	<b>28,358,080</b>	<b>7,911,760</b>	<b>(7,580,025)</b>	<b>20,778,055</b>	<b>(33,718)</b>		
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	1,832,330	1,809,040	0	0	1,809,040	23,290		
1.3.084.84.020.07 - CMOD:UMS.1253: ELEVATORS, ESCALATORS	490,000	490,000	0	0	490,000	0		
1.3.084.84.040.01 - CMOD:UMS.1253: DEMOLITION CLEARING	944,987	944,987	0	0	944,987	0		
1.3.084.84.040.02 - CMOD:UMS.1253: SITE UTILITIES UTIL	3,270,038	3,270,038	0	0	3,270,038	0		
1.3.084.84.040.03 - CMOD:UMS.1253: HAZARDOUS MATERIALS	349,730	349,730	0	0	349,730	0		
1.3.084.84.040.07 - CMOD:UMS.1253: AUTOMOBILE BUS ACCE	0	20,580,025	7,911,760	(20,580,025)	0	0	69a	
1.3.084.84.040.08 - CMOD:UMS.1253: TEMPORARY FACILITIES	13,809,103	809,103	1	13,000,000	13,809,103	0		
1.3.084.84.050.05 - CMOD:UMS.1253: COMMUNICATIONS	48,149	105,157	0	0	105,157	(57,008)		
1.3.084.94.020.03 - UMS.1253: AC: ALLOC CONTING	(744,337)	0	0	0	0	(744,337)	41	
<b>85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254</b>	<b>247,567,810</b>	<b>237,798,758</b>	<b>535,476</b>	<b>1,339,637</b>	<b>239,138,395</b>	<b>8,429,415</b>		
1.3.085.04.010.07 - CTS.1254: GUIDEWAY: UNDERGROUND TUNNEL	76,417,579	76,417,579	0	0	76,417,579	0		
1.3.085.04.020.03 - CTS.1254: UNDERGROUND STATION	133,001,053	125,193,544	392,733	1,039,334	126,232,878	6,768,175		
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	6,284,976	46,092	165,706	6,450,682	362,174		
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	5,999,218	2,501	0	5,999,218	2,500		
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	230,000	0	0	230,000	120,000		



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1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	222,460	0	0	222,460	103,205		
1.3.085.04.040.06 - CTS.1254: PEDESTRIAN/BIKE	15,000	15,000	15,000	0	15,000	0		
1.3.085.04.040.07 - CTS.1254: AUTOMOBILE BUS ACCE	225,677	175,677	45,669	35,708	211,385	14,292		
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	16,116,322	0	0	16,116,322	455,000		
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	1,665,256	1	0	1,665,256	(65,663)		
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	3,641,952	21,350	49,150	3,691,102	372,825		
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	94,490	0	0	94,490	29,991		
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	1,342,283	12,130	49,739	1,392,022	266,916		
85 - CHINATOWN STATION (CTS) CMODs	62,581,923	59,550,428	1,752,303	(6,910,784)	52,639,644	9,942,279	71	
1.3.085.85.020.03 - CMOD:CTS.1254: UNDERGROUND STATION	1,201,478	1,126,478	0	0	1,126,478	75,000		
1.3.085.85.020.04 - CMOD:CTS.1254: OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0	0	0	0	9,360,183		
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	4,022,598	3,996,251	0	0	3,996,251	26,347		
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	3,895,399	3,895,399	3	0	3,895,399	0		
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	43,946,308	43,473,304	0	0	43,473,304	473,004		
1.3.085.85.050.05 - CMOD:CTS.1254: COMMUNICATIONS		6,910,784	1,752,300	(6,910,784)	0	0	71a	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	(40,964,029)	0	0	0	0	(40,964,029)	72	
86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255	158,089,000	155,504,147	360,127	166,421	155,670,568	2,418,432		
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	118,065,704	354,536	10,643	118,076,347	329,493		
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	5,019,079	0	124,028	5,143,107	190,180		
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	7,163,278	2	0	7,163,278	0		
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	2,140,188	0	0	2,140,188	489,251	73	
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	32,019	0	0	32,019	67,981		
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	1,539,725	0	0	1,539,725	3,000		
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	15,177,965	962	0	15,177,965	386,788		
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	1,726,492	0	0	1,726,492	0		
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	2,753,850	1	31,250	2,785,100	923,325		
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	1,228,846	4,626	500	1,229,346	11,750		
1.3.086.05.050.06 - YBM.1255: FARE COLLECTION SYST	0	0	0	0	0	0		
86 - YERBA BUENA MOSCONE STATION (YBM) CMODs	4,889,959	16,229,485	3,335,940	(11,773,621)	4,455,864	434,095		
1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	466,470	456,470	0	0	456,470	10,000		
1.3.086.86.020.07 - CMOD:YBM.1255: ELEVATORS ESCALATOR	210,055	210,055	0	0	210,055	0		
1.3.086.86.040.01 - CMOD:YBM.1255: DEMOLITION CLEARING	266,386	259,386	0	0	259,386	7,000	73	
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	3,570,282	3,158,755	0	0	3,158,755	411,527		
1.3.086.86.040.03 - CMOD:YBM.1255: HAZARDOUS MATERIALS	150,828	150,828	0	0	150,828	0		
1.3.086.86.040.04 - CMOD:YBM.1255: ENVIRONMENTAL MITIGA	102,734	102,734	0	0	102,734	0		
1.3.086.86.040.06 - CMOD:YBM.1255: PEDESTRIAN/BIKE	35,489	29,921	0	0	29,921	5,568		
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	87,715	87,715	0	0	87,715	0		
1.3.086.86.050.05 - CMOD:YBM.1255: COMMUNICATIONS		11,773,621	3,335,940	(11,773,621)	0	0	73a	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	10,110,042	0	0	0	0	10,110,042	74	

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87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	123,739,450	5,378,919	2,669,895	126,409,345	13,579,655		
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (ALLOWS C	2,860,000	2,860,000	0	0	2,860,000	0		
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	9,257,731	8,951,588	14,554	0	8,951,588	306,143		
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUND	16,723,552	16,296,101	94,932	42,151	16,338,252	385,300		
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	6,756,657	(0)	0	6,756,657	4,432		
1.3.087.09.010.12 - STS.1256: TRACK: SPECIAL	4,449,637	4,449,637	0	0	4,449,637	0		
1.3.087.09.020.01 - STS.1256: AT-GRADE STATION	7,602,857	6,623,111	245,547	256,984	6,880,095	722,762		
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	14,682,874	1	2,250	14,685,124	2,778,922		
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	0	0	0	0	200,000	73	
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	0	0	0	0	50,000	73	
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	2,116,925	1	0	2,116,925	0		
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,896,832	13,835,367	100,000	0	13,835,367	61,464		
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	22,889,356	2,193,807	2,061,880	24,951,236	2,592,215		
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	3,798,419	1	0	3,798,419	664,949		
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	8,954,031	15,899	246,630	9,200,661	688,353		
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	3,846,769	0	14,595	3,861,364	2,238,311		
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	5,957,653	2,714,178	41,405	5,999,058	1,997,179		
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	1,720,962	0	4,000	1,724,962	889,624		
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	78,359,138	66,110,949	16,637,723	28,626,262	94,737,212	(16,378,073)		
1.3.087.89.020.03 - CMOD:STS.1256: UNDERGROUND STATION	(4,876,785)	(4,876,785)	(0)	0	(4,876,785)	0		
1.3.087.89.040.01 - CMOD:STS.1256: DEMOLITION, CLEARING, EARTHWORK	399,000	399,000	0	0	399,000	0		
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	1,482,322	1,345,797	1	0	1,345,797	136,525		
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,221	2	0	18,221	0		
1.3.087.89.040.07 - CMOD:STS.1256: AUTOMOBILE BUS ACCE	16,530,003	18,784,307	14,900,000	(2,254,304)	16,530,003	0		
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	64,753,360	34,223,300	58,340	29,907,076	64,130,376	622,984	74a	
1.3.087.89.050.01 - CMOD:STS.1256: TRAIN CONTROL	(1,856,144)	13,304	0	0	13,304	(1,869,448)		
1.3.087.89.050.02 - CMOD:STS.1256: TRAFFIC SIGNALS AND	242,427	220,000	0	0	220,000	22,427		
1.3.087.89.050.05 - CMOD:STS.1256: COMMUNICATIONS	1,666,735	15,983,805	1,679,380	973,490	16,957,296	(15,290,561)		
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	(45,305,636)	0	0	0	0	(45,305,636)	75	
88 - STATIONS CONTRACT 1300	2,435,063	1,213,954	4,203	1,345	1,215,299	1,219,764		
1.3.088.06.080.04 - CN1300 CONSTRUCTION TRAILER [68CPT5441316.CPT5441316]	80,000	0	0	0	0	80,000		
1.3.088.06.080.04 - DT-CN1300 COMMUNICATIONS INSTALL [68CPT5441317.CPT544	1,430,594	156,022	0	0	156,022	1,274,572		
1.3.088.06.080.04 - MTA Communications - Business Liaison to support CN1300 CON[68C	420,000	343,778	0	0	343,778	76,222		
1.3.088.06.080.04 - IT-CN1300 Installation [68CPT5441319.CPT5441319]	448,371	290,864	4,203	1,345	292,209	156,162		
1.3.088.06.080.04 - CN1300 Installation Maintenance [68CPT5441320.CPT5441320]	25,000	382,655	0	0	382,655	(357,655)		
1.3.088.06.080.04 - DT Support - Stations [68CPT544135.CPT5441325]	31,098	40,635	0	0	40,635	(9,537)		
141 - CONSTRUCTION ADMINISTRATION	0	0	0	0	0	0		
1.3.141.97.080.04 - CONSTR.ADMIN:ALLOC CONTING	0	0	0	0	0	0	75a	
142 - LEGAL/PERMITS	2,014,204	0	0	0	0	2,014,204		
1.3.142.01.080.06 - LGL.PRMITSF: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 (SFMTA Transit)	6,941,907	0	0	0	0	6,941,907		
1.3.144.97.080.08 - STRTA: AC STARTUP ALLOC CONTIN	1,358,422	0	0	0	0	1,358,422		

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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	10,599,579	2,403,913	0	0	2,403,913	8,195,666		
1.3.170.01.050.04 - COMM.CONNN:COMMUNICATION CONN	5,757,629	0	0	0	0	5,757,629		
1.3.170.01.050.05 - CSP Radio Design	641,950	641,950	0	0	641,950	0		
1.3.170.01.050.05 - CSP Radio Cable	377,788	321,963	0	0	321,963	55,825		
1.3.170.01.050.05 - CSP Radio Procurement	3,822,212	1,440,000	0	0	1,440,000	2,382,212		
181 - AON RISK INSURANCE CS 163	26,803,757	25,119,206	0	0	25,119,206	1,684,551		
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	26,778,757	25,094,206	0	0	25,094,206	1,684,551		
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	366,130	213,278	0	366,130	5,033,871		
1.3.191.01.050.06 - FARE.CONSUM:FARE COLLECTION	5,400,000	366,130	213,278	0	366,130	5,033,871		
192 - THALES T&S CENTRAL CONTROL	19,421,326	10,698,655	0	0	10,698,655	8,722,671		
1.3.192.01.050.01 - THALES T&S ATCS	487,972	106,179	0	0	106,179	381,793		
1.3.192.01.050.01 - CN1266-2 Advanced Train Control System (ATCS) - Implementation	15,507,930	7,475,844	0	0	7,475,844	8,032,086		
1.3.192.01.050.01 - CN1266-1 Advanced Train Control System (ATCS) - Equipment	3,425,424	3,116,632	0	0	3,116,632	308,792		
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	3,874,699	0	0	3,874,699	(1,886,526)		
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	1,305,477	0	0	1,305,477	1,654,349		
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	2,569,222	0	0	2,569,222	556,000		
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	476,611	0	0	476,611	474,745		
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	443,459	0	0	443,459	457,897		
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	475,136	0	0	475,136	224,864		
1.3.334.01.050.06 - BART:BART FARE COLLECTION EQP	700,000	475,136	0	0	475,136	224,864		
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	250,534	0	0	250,534	(8,163)		
1.3.402.07.050.04 - DT:1UTL:COMM. CONNECTIONS	166,756	179,179	0	0	179,179	(12,423)		
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		

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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	0	0	(254,050)	76	
1.3.491.03.040.02 - FORMB - UMS:CONTRACT 1300 UTILITY REIMBURSEMENT	(528,370)	0	0	0	0	(528,370)	77	
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEMENT	(451,703)	0	0	0	0	(451,703)	78	
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEMENT	(100,000)	0	0	0	0	(100,000)	79	
1.3.491.06.040.02 - FORMB - CONTRACT 1300 UTILITY REIMBUR	0	0	0	0	0	0	80	
1.3.491.07.040.02 - FORMB - CONTRACT 1250 UTILITY REIMBUR	(2,275,419)	0	0	0	0	(2,275,419)	81	
1.3.491.08.040.02 - FORMB - CONTRACT 1251 UTILITY REIMBUR	(7,618,412)	0	0	0	0	(7,618,412)	82	
1.3.491.09.040.02 - FORMB - STS:CONTRACT 1300 UTILITY REIMBURSEMENT	(1,000,000)	0	0	0	0	(1,000,000)	83	
<b>TOTAL CONSTRUCTION PHASE</b>	<b>1,453,126,858</b>	<b>1,471,282,983</b>	<b>39,319,625</b>	<b>10,041,563</b>	<b>1,481,324,545</b>	<b>(28,197,688)</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	14,622,868	9,781,465	0	0	9,781,465	4,841,403		
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	0	0	0	0	0	0	26	
<b>TOTAL VEHICLES</b>	<b>16,800,000</b>	<b>11,929,247</b>	<b>0</b>	<b>0</b>	<b>11,929,247</b>	<b>4,870,753</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	15,955,138	14,224,616	0	0	14,224,616	1,730,522		
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		
1.5.023.01.060.01 - ATTY:REAL ES	2,764,872	2,764,872	0	0	2,764,872	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>30,543,065</b>	<b>0</b>	<b>0</b>	<b>30,543,065</b>	<b>1,597,353</b>		
<b>90 - CONTINGENCY</b>	<b>1,001,869</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,001,869</b>		
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	1,001,869					1,001,869	84	
TOTAL ALLOCATED CONTINGENCY	0					0		
<b>TOTAL PROJECT COST</b>	<b>1,664,687,193</b>	<b>1,674,315,803</b>	<b>39,352,280</b>	<b>10,041,563</b>	<b>1,684,357,366</b>	<b>(19,670,173)</b>		



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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.
17	SFWD funded Contract Modification #60 for 8' water line at the intersection of Fourth and Jessie Street which are reimbursements for work carried out in Contract 1252.
17a	The Chinatown Plaza (CPT 718) is used for Chinatown Station enhancement. The project has funding outside of the Central Subway Project. The construction is carried out in Contract 1300 Contract Modifications. CMOD#123 is being partially funded by CPT718 funding.

7.4 Contingency Management Trend Report	
18	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.
19	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.
20	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. In March 2018 report, increased Contract 1252 contingency by \$131,715 cost to reflect certification of two CMODS.
21	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. In March 2019, \$18,036,709 was taken out of original contract of \$879,676,400 due to ATCS no longer being done by Tutor hence new revised budget of \$861,639,691. In August 2019, used new methodology to report on the potential changes to our contract cost. See backup via SCC codes. The budget number in cell m14 has also been updated to reflect the true cost.
22	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718. In Nov 2016 report, reversed moving contingency.
23	In December 2017 Report, \$1,060,000 Job Readiness Budget is shown as an approved change in Column "b". In March 2019 report, \$18,036,709 taken out of Tutor contract (STS package) and put into unallocated contingency. We then used the same amount from unallocated contingency, \$18,036,709 and moved to its own line for the ATCS (advanced train control system) contract. As of March 2019, Tutor has not given us credit for the \$18,036,709 that is still sitting on the STS AL-14 bid item. That bid item should not be \$25M but instead be \$7,054,078 to reflect amount we have previously paid out. We will continue to monitor the STS-AL bid item to make sure Tutor corrects the amount. In August 2019, we are showing the \$4,841,950 from unallocated program contingency being moved to SCC 50 Systems category.
24	In December 2017 Report, there is a change in Column "f" and Column "h" to reflect reporting to include CN1250 and CN1251. Prior to this, Column "f" and Column "h" reporting excluded CN1250 and CN1251.

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25	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 cost book 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 completed phase Real Estate assigned contingency to program unallocated contingency. In September 2020, re-programmed, re-aligned and re-adjusted the allocated STS contingency to increase by \$22,708,106 due to funding received.
26	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. In Dec 2018 Report, increased LRV budget by \$3,491,000 to reflect final costs of vehicles (\$4,200,000/unit) for vehicle procurement contract to \$16,800,000. Reduced LRV contract and transferred the \$9,585,653 from LRV contingency to unprogrammed contingency.
26a	In July 2018 Report, increased SCC 80 Professional Services category budget by \$2,263,498 due to additional costs related to CN1300 stations; cost was transferred from program unallocated contingency. In August 2019 report, we are realigned and adjusted the allocated contingency for Professional Services and moved to approved changes column.
27	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 Cogency. "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, used \$15M to UMS contingency and \$5M to CTS contingency. In February 2017, increased \$5,265,478 from real estate contingency to program unallocated contingency and used \$1M for CN1300 Job Readiness Program contract. In July 2018 report, used \$2,263,498 to increase SCC 80 Professional Services category regarding matters related to stations from program unallocated contingency. In August 2019 report, used \$4,841,950 to increased SCC 50 Systems category regarding matters related to CSP Radio from program unallocated contingency.
28	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. In September 2020, the project budget increased from \$1.578 billion to \$1.601 billion due to additional funding.
29	Estimate at Completion is shown at Column "e".
30	Estimate at Completion vs. Budget variance is shown at Column "k".
<b>7.5 Contract Modification/Trend Log - Contract 1300 Stations</b>	
31	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. In May 2017, updated probability formula and adjusted cost.

7.6 Budget Revisions: Report Sorted by Construction Packages	
32	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. In March 2018 Report, increased CN1252 allocated contingency by \$131,715 to execute two contract modifications (#61 and #62), see Report 7.5 Detail Contingency Usage Report. In December 2018 Report, released CN1252 allocated contingency of \$966,431 to program unallocated contingency.
33	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.
34	In April 2015, initiated budget from program unallocated contingencies for CS-175 Bayland Soil Process contract, refer to Note 20.
34a	In March 2019, initiated transfer due to budget being withdrawn from Tutor contract (STS package) to fund the Advanced Train Control System contract amount of \$18,036,709. CN1266-2 Advanced Train Control System (ATCS) Implementation for \$14,611,285 and CN1266-1 Advanced Train Control System (ATCS) Equipment for \$3,425,424.
34b	In December 2018, initiated budget from program unallocated contingencies for AON Risk Insurance, refer to Note 20.
35	In February 2017, released completed phase real estate assigned contingency \$5,265,478 to program unallocated contingency.
36	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. In December 2018 Report, adjusted budget from \$13,309,000 to \$16,800,000 from allocated contingency. Took the remaining allocated contingency of \$9,585,653 and moved it to program unallocated contingency.
36a	In August 2019 Report, utilized the contingency of \$16,862,657 from 80.03 Project Management budget and 80.04 Construction Management budget and redistributed funds to align with AECOM budget to reflect true costs plus additional \$12,000,000 in 2019 annual work plan.



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37	<p>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. In June 2017, initiated budget from Contract 1251's contract value (true final administrative close out cost) to program unallocated contingency, a deduction contract modification that lowered CN1251's contract value by \$125,501. In March 2018 report, 1252 program contingency increased by \$131,715 due to execution of two contract modifications as credit offsets. In July 2018, increased SCC category Professional Services in 80.04 Construction Management by \$2,263,498 by reducing program unallocated contingency. In August 2019, increased SCC category Other Construction in 50.05 CSP Radio by \$4,841,950 by reducing program unallocated contingency.</p>
38	<p>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. In July 2017, increased program unallocated contingency by \$125,501 due to CN1251's revised contract value. In July 2018, reduced program unallocated contingency by \$2,263,498 to fund additional costs for SCC category Professional Services in 80.04 Construction Management. In December 2018, reallocated CN1252 budget of 2,402,247 (due to closeout cmod reduction of 1,435,816 and contingency release of 966,430) and LRV budget contingency of 9,585,653 and released a total of 11,987,900 to unprogrammed contingency. In August 2019, reduced program contingency by \$4,841,950 to fund additional costs for SCC category Other Construction in 50.05 to fund CSP Radio related services. In August 2020, used \$5.25M of unprogrammed contingency to fund AECOM 2020 AWP \$4.5M and AECOM 2020 ODC \$750K. In October 2020, added \$20,265,846 to unprogrammed contingency.</p>
<p><b>7.7 Budget Expenditures by SCC Codes</b></p>	
39	<p>In March 2017, added new columns for "Supplemental 2013 Budget" and "Remaining Budget". In April, added new column for "Contingency". In May 2017, added new column for "Report Note". In May 2017, breakdown the combined SCC codes 10 to 50 into individual row for 10, 20, 40, 50 categories. Assigned SCC code to all CN1300 potential changes. Contract 1300 Station assigned contingency SCC are 20.01 and 20.03. The budget transfer is using assigned contingency to process contract modifications. In June 2017, adjusted and realigned SCC codes. In July 2018, the budget transfer is using SCC 90 program unallocated contingency to process an increase in budget for category SCC 80.03-90.04 PM For Design &amp; Construction. In March 2019, added \$18,036,709 from taking out the ATCS from Tutor contract. The budget transfer was used to create a stand alone line for ATCS work in 50.01 under Thales. In August 2020, used \$5.25M of unprogrammed contingency to create AECOM 2020 AWP \$4.5M and AECOM 2020 ODC \$750K. In October 2020, used \$32M of unprogrammed contingency to increase the contingencies for CN1300 CTS, YBM and STS station; increased AECOM 2020 AWP &amp; ODC by \$6M; increased CS 155.2 by \$3,728,919 and added \$20,265,846 to unprogrammed contingency.</p>

7.9 Detail Monthly Expenditure Report	
<b>Phase 1 Preliminary Engineering</b>	
40	<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.
<b>Phase 2 Design Phase</b>	
41	Famis cost adjustment to transfer Project Management cost from July 2013 to Phase 3 Construction Phase.
42	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.
43	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]
44	In December 2016 Report, Central Subway Project has re-activated CSA Audit Work Order to perform overhead audit for three consultant forms.
45	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]
46	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]
47	AVA Cost \$395,204 is reported in Phase 2 Final Design 1.2.066.01.080.03
48	In January 2017 Report, remove variance amount of (\$920,555) that was incorrectly reported in August 2016.
49	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]
50	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]
51	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>	

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52	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
53	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.
54	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.
55	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.
56	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.
57	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.
58	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.
59	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
60	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]
61	In February 2017, transferred \$1,060,000 from programs unallocated contingency to initiate CN1300 JOB READINESS contracts, (cost account code 1.3.064.06.040.08). A deductive Construction Modification to CN1300 will process.
62	Used \$500K program contingency for CS-175 Bayland Soil Process contract. Refer to Report Notes #20.
63	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]
64	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]

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65	Contract 1251 Final cost is \$20,794,582.
66	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
67	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
68	Revised Contract 1252 allocated contingency SCC code from 040.08 to 010.07.
69	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. In September 2020, received \$22,708,106 from local funds and added to CN1300 Station budget thus resulted it in being increased.
69a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed UMS with \$1,886,753 and having it sit in cost center 1.3.088.84.040.07.
70	Revised Contract 1300/UMS allocated contingency SCC code from 040.08 to 020.03.
71	In March 2016 Report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS.
71a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed CTS with \$1,419,413 and having it sit in cost center 1.3.088.85.050.05.
72	Revised Contract 1300/CTS allocated contingency SCC code from 040.08 to 020.03.
73	Negative Current or Prior Monthly expenditure is due to replenish allowance expenses by approved Contract Modifications.
73a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed YBM with \$1,090,286 and having it sit in cost center 1.3.088.86.050.05.
74	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
74a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed STS with \$975,368 and having it sit in cost center 1.3.088.89.040.07.
75	Revised Contract 1300/STS allocated contingency SCC code from 040.08 to 020.01.
75a	In August 2019 Report, reallocated and aligned SCC 80 Professional Services category budget by \$2,956,812 due to additional costs; cost was transferred from construction management allocated contingency.
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	Revised Form B Reimbursements SCC code from 900.01 to 040.02
81	Revised Form B Reimbursements SCC code from 900.01 to 040.02
82	Revised Form B Reimbursements SCC code from 900.01 to 040.02
83	Revised Form B Reimbursements SCC code from 900.01 to 040.02



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84	<p>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 30. Also, released \$5,265,478 assigned real estate contingency to program unallocated contingency, refer to Note 27. In July 2018 report, used \$2,263,498 to fund SCC 80 Professional Services category regarding matters related to stations from program unallocated contingency. In December 2018, moved \$11,987,900 from CN1252 and LRV contingency to program unallocated contingency. In March 2019, added \$18,036,709 from taking out the ATCS from Tutor contract. The budget transfer was used to create a stand alone line for ATCS work in 50.01 under Thales. In August 2019, used \$4,841,950 from program unallocated contingency to create CSP Radio Design, CSP Radio Cable, and CSP Radio Procurement in SCC 50 Systems category. Waiting for a contract modification to readjust the borrowed contingency from unprogrammed contingency. In August 2020, used \$5.25M of unprogrammed contingency to create AECOM 2020 AWP \$4.5M and AECOM 2020 ODC \$750K. In September 2020, received \$22,708,106 in funding from local funds and re-aligned the allocated contingency so that it would decrease from \$76M in Aug to \$53M in Sep. In October 2020, used \$32M of unprogrammed contingency to increase the contingencies for CN1300 CTS, YBM and STS station; increased AECOM 2020 AWP &amp; ODC by \$6M; increased CS 155.2 by \$3,728,919 and added \$20,265,846 to unprogrammed contingency. In November 2020, used \$13,000,000 from unprogrammed contingency to increase STS station contingency; increased a1266-2 atcs implementation budget by \$896,645 due to cmods 2 and 3; realigned the budgets for project management, construction management; added additional \$2M for CS 149 AWP and ODC; thus unprogrammed contingency was reduced by \$20,896,645.</p>
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*Appendix B*

**DETAIL SCHEDULE REPORTS**

## **SCHEDULE HIGHLIGHTS**

The Master Project Schedule (MPS) below includes progress through December 2020. The December 2020 Schedule Update submittal from Contract 1300 Contractor was not submitted as the CN1300 Contractor has not provided the updated corrections to their June 2017, through July 2018 Schedule Updates. The Contract 1300 schedule represented in this report is based on the SFMTA December 2020 Schedule Update.

The MPS shows a forecast Revenue Service Date of Spring 2022 based on a revised assessment of the overall schedule and the current project conditions related to work efficiency due to COVID. The revised Revenue Service Date of Spring 2022 has been shared with our funding partners and a revised request to extend the Full Funding Grant Agreement with the revised date has been submitted to Federal Transit Administration (FTA) for review and approval. The project continues to evaluate this date with potential impact from COVID restrictions with stricter guidelines and procedures. The schedule team is assessing the risk with these issues and identifying potential mitigation to reduce the risk to the overall schedule. The Contractor has notified the City that potential delay may have occurred due to the social distancing requirement which is impacting production rates.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources and extended approvals of contract modifications related to Radio and Train Control Systems. These issues have impacted TPC's Substantial Completion date, we have mitigated the delay by accelerating rail activation activities. TPC and SFTMA are working to reach scope and cost agreements for these contract modifications as TPC refuses to commence work without an approved Contract Modification. The controlling critical (longest) path of the MPS runs through the electrical activities within the tunnel which are impacting the TPC's Startup and Testing and subsequently the rail activation process. The latest schedule shows the longest path running through the Surface, Tracks and Systems (STS).

SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. TPC has not been able to correctly staff the project which could potentially delay the project. In order to achieve the Baseline work productivity, TPC needs to increase the number of crews assigned to electrical work, allowing concurrent work within the tunnel and stations in order to make this completion date possible. It also requires that the front-end portion of ATCS Startup and Testing is performed concurrently with TPC's Startup and Testing followed by ATCS software testing in coordination with SFMTA Operations.

Contract 1300 Contractor submitted fifty-four (54) Schedule Updates from December 2014 to July 2019. SFMTA rejected twenty eight (28) Schedule Updates from January 2016 to April 2016 and June 2016 to July 2018 due to multiple and repetitive issues that vary from incorrect working sequences to unrealistic forecasted completion dates to artificially steering the schedule longest path through certain portions of the project. SFMTA approved as noted December 2014 through December 2015, and May 2016 Schedule Updates. Contractor has been directed to provide a Revised Schedule as required by the overall settlement agreement to maintain the forecasted project completion.

### **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 December 2020 schedule is

used within the December Report. The SFMTA Contract 1300 December 2020 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. 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 SFMTA's scheduling concerns.

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

- Continued installing terrazzo for Stair 1 at Cavern Platform level
- Began installing terrazzo for Stair 2 and 3 at Station Headhouse
- Continued installing overhead signage along North/South Cavern Platform
- Continued installing electrical and communication conduits at Station Agent Booth at Concourse level
- Continued pulling service wires at Equipment Room at Underplatform level
- Continued pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface/Plaza levels
- Completed installing GFRC panels at Upper Mezzanine
- Continued installing Elevators 1, 2, 3, and 4
- Completed installing Stair 5
- Continued installing Stair 6
- Continued construction of Plaza roof and stairs
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface/Plaza levels
- Completed installing HVAC at Surface/Plaza levels
- Continued installing GFRC panels at Plaza level
- Continued installing grating at Roof walkways
- Began installing pavers at Plaza level
- Obtained SFDBI Green Tag
- Obtained permanent electrical PG&E power for Primary Feeder
- Began testing EV fans, board and panels, transformers, and lighting
- Continued street work (minor), ongoing monitoring and surveying

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

- Complete installing terrazzo for Stair 2 and 3 at Station Headhouse
- Complete installing overhead signage along North/South Cavern Platform
- Continue installing electrical and communication conduits at Station Agent Booth at Concourse level
- Complete installing Stair 6
- Complete pulling service wires at Equipment Room at Underplatform level
- Continue installing overhead conduit at Traction Power rooms at Headhouse Platform level



- Complete pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Complete installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface and Plaza levels
- Complete installing GFRC panels at Crosscut Cavern Arch
- Complete installing Elevators 1 and 2
- Continue installing Elevators 3 and 4
- Complete construction of Plaza roof and stairs
- Complete installing fire proofing for Plaza level
- Complete installing pavers at Plaza level
- Complete installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Complete HVAC installation at Surface and Plaza levels
- Obtain permanent electrical PG&E power from Secondary Feeder
- Complete traction power conduit installation and OCS at Cavern
- Continue testing EV fans, board and panels, transformers, and lighting
- Begin testing Traction Power and Train Control components
- Complete construction of 8" water line along Washington Street
- Begin reactivation of existing AWSS pipeline along Stockton Street
- Open up 1 Westbound traffic lane along Washington Street

Continued street work (minor), ongoing monitoring and surveying

Activity ID	Activity Name	2021						
		Dec	Jan	Feb	Mar	Apr	May	Jun
<b>CENTRAL SUBWAY PROJECT</b>								
<b>Construction Phase</b>								
Construction CN-1300								
Construction CTS Station P-1254R								
Administrative / Milestones								
Site Work / Utility Relocation								
Demolition								
Concrete/Shotcrete								
Mechanical								
Emergency Egress								
C.3.880	South Emergency Egress Tunnel M.E.P							
C.3.860	North Emergency Egress Tunnel M.E.P							
No 13-Location								
CTS.21.22.530	CTS_Platform - Aux Communication & TCUTCS Install - Clean Agent Panel - 1 ea							
CTS.21.13.732	CTS_CN 03 - Ticket Hall Rough In - Overhead Sprinkler Laterals							
CTS.23.31.832	CTS_UM 05 - Sewage Rm: Install - HVAC: Diffusers & Grilles							
CTS.23.31.826	CTS_UM 07 - Aux Elect Rm: Install - HVAC: Diffusers & Grilles							
CTS.22.13.342	CTS_UM 05 - Sewage Rm: Set & Hook up - Sewer Ejector Pump { SE-1 }							
CTS.22.11.072	CTS_CN 17 - Janitor Rm: Set & Hook up - Water Heater { WH-1}							
CTS.23.31.828	CTS_UM 02 - Storage Rm: Install - HVAC: Diffusers & Grilles							
CTS.22.13.360	CTS_UM 05 - Sewage Rm: Set & Hook up - Sewer Ejector Float Control { SE-1 }							
CTS.26.05.565	CTS_LM 13 - Elevator Closet: Install - Elevator Controller							
CTS.23.74.232	CTS_Roof - HVAC Area: Form/Pour/Cure - Concrete Pad for Condenser { HR-1 & HR							
CTS.22.11.110	CTS_CN Install: Domestic Water - Concourse Level							
CTS.23.74.248	CTS_Roof - HVAC Area: Install - Fan Motor & Condenser { HR-1&2 }							
CTS.21.12.200	CTS_SU 07 - Valve Rm: Install - DSP,TSP, SM Piping & Valves							
CTS.23.88.512	CTS_UP 04 - Emerg Fan Rm: Install - Tunnel Ventilation Fans (3 each)							
CTS.23.31.844	CTS_SU 07 - Valve Rm: Install - HVAC: Diffusers & Grilles							
CTS.22.14.433	CTS_UP 01 - Sump Pump Rm: Set & Hook up - Sump Pump { SP-1 & SP-2}							
CTS.23.31.842	CTS_SU 05 - Aux Elect Rm: Install - HVAC: Diffusers & Grilles							
CTS.23.31.912	CTS_LM 11 - Fan Rm: Install - HVAC: Startup Exhaust Fan #1-6							
CTS.22.13.082	CTS_PL 19 - Sewage Ejector Rm: Install - Water Heater (1 each) - Sector 3							
CTS.22.40.630	CTS_CN 20 - Womens Restroom: Set & Hook up - Sink & Cabinet							
CTS.22.13.152	CTS_PL 19 - Sewage Ejector Rm: Install - Sewer Ejector Pump { SE-2 } - Sector 3							
CTS.22.40.632	CTS_CN 20 - Womens Restroom: Set & Hook up - Water Closet							
CTS.22.40.430	CTS_CN 22 - Mens Restroom: Set & Hook up - Sink & Cabinet							
CTS.22.13.533	CTS_PL 19 - Sewage Ejector Rm: Set & Hook up - Sewer Ejector Float Control { SE-							
CTS.22.40.432	CTS_CN 22 - Mens Restroom: Set & Hook up - Water Closet							
CTS.22.40.434	CTS_CN 22 - Mens Restroom: Set & Hook up - Urinal							
CTS.22.40.535	CTS_PL 08 - Mens Restroom: Set & Hook up - Sink & Cabinet							

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

- Completed Terrazzo work at Stair #6.
- Started Installation of OCS brackets at Platform level.
- Continued Pulling fiber for SFDT Installation.
- Completed Installing Area of Refuge Fixtures.
- Completed Installation of Data, Phone at North Entrance.
- Continued working on Station Agent Booth.
- Continued Installation of Power and Data Outlets at Ellis Entrance.
- Completed Installation of Terrazzo at Stair #1.
- Completed Installation of EV-Fans in Air-Flow Sensor Wire.
- Completed Installation of the Glazed Wall System on Platform Level.
- Continued Installation of Fire Alarm BPS and Deluge System at South Electrical Room.
- Completed Installation of Crystallized Glass Panels at street level entrance and Ellis street entrance.
- Continued Installation of cables for Artwork at Concourse Level (Gizmo).

- Completed Installation of guard Rails near EV Dampers.
- Continued landscaping street level area at Stockton street

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

Continued construction, installation and testing of the following items:

- Continue working on Station Agent Booth (install glass, counters and electrical work).
- Continue Installation of cables for Artwork at Concourse Level (Gizmo).
- Continue Installation of Fire Alarm and FHCs.
- Continued Installation of OCS brackets at Platform level.
- Continued Pulling fiber for SFDT Installation.
- Continued Installing Area of Refuge Fixtures.  
 Start Painting Traction Power Conduits at Platform level

Activity ID	Activity Name	2021						
		Dec	Jan	Feb	Mar	Apr	May	Jun
<b>CENTRAL SUBWAY PROJECT</b>								
<b>Construction Phase</b>								
Construction CN-1300								
Construction UMS Station P-1253								
Administrative / Milestones								
Engineering & Procurement								
Drilled Shafts								
Masonry								
Mechanical								
Electrical								
All Locations								
Union Square Station								
Station Platform Footprint (Between Headwalls)								
UMS.27.51.0310	UMS_PSL_Install: Comm: SSFD & Emerg Phone System Raceway - Platform Strut							
UMS.28.13.0160	UMS_MZ_Install: Security: Access Control System Mezzanine Level							
UMS.08.85.0140	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 3							
UMS.26.24.2880	UMS_PL_04 - Aux Elect Rm: Install Raceway - Panelboard UE4NHL							
UMS.27.51.0320	UMS_PSL_Comm: SSFD & Emerg Phone System Wire Pulls - Platform Strut Level							
UMS.26.24.4480	UMS_CN_21 - Electrical Closet: Pull Data Cable LCP-C2 To Master Panel LCP-M (I							
UMS.09.53.0460	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 3							
UMS.09.53.0470	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 4							
UMS.28.16.0160	UMS_MZ_Install: Security: Intrusion Systems Mezzanine Level							
UMS.27.51.0330	UMS_PSL_Comm: SSFD & Emerg Phone System Terminations - Platform Strut Lev							
UMS.26.24.2990	UMS_PL_04 - Aux Elect Rm: Terminations - Panelboard FM200 / Pre-Action Systems							
UMS.26.24.3630	UMS_MZ_11 - Aux Elect Rm: Install Feeder Conduit - Elect Panel 3DHP4 To Esc 4-f							
UMS.08.85.0190	UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 4							
UMS.28.16.0150	UMS_PL_Install: Security: Intrusion Systems Platform Level							
UMS.27.30.0100	UMS_PL_Install: Comm: Telephone System Platform Level							
UMS.27.51.0340	UMS_PL_Install: Comm: SSFD & Emerg Phone System Cabinets - Platform Level							
UMS.26.24.4520	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHL to 4SHL (PL12)							
UMS.26.24.4560	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel E3DHL To UE4SHL (PI							
UMS.26.24.4550	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHP4 To Esc 4-6							
UMS.08.85.0210	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 4							
UMS.34.05.0290	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-1 (Trac							
UMS.09.53.0490	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures to Fixtures S							
UMS.09.53.0500	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures S							
UMS.27.51.0350	UMS_PL_Install: Comm: SSFD & Emerg Phone System Raceway - Platform Level							
UMS.09.53.0480	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 5							
UMS.34.05.0340	UMS_MZ_Install Conduit Riser PB-1 to NB Feeder Boxes PS01 (Traction Power)							
UMS.27.51.0360	UMS_PL_Comm: SSFD & Emerg Phone System Wire Pulls - Platform Level							

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

- All structural concrete work.

- Stairs, elevators and escalators.
- Ceiling panels.
- Emergency lighting at tunnel tie-in on platform level.
- CCTV/Communication at tunnel tie-in on platform level.
- Station Agent Booth.
- Application of Anti-graffiti.

Continued construction / begin installation and testing of the following:

- Fireproofing.
- Terrazzo flooring and stairs.
- Glass wall panels.
- Artwork on concourse level.
- Light fixtures and controls at Ellis Entrance.
- Fire Alarm/ PA/ Security System.
- Overhead plumbing, fire protection piping and overhead fixture and electrical.
- Frames and pressurized doors at intermediate strut level.
- Access controls.
- HVAC and EV startup and testing.
- Power and Lighting startup and testing.
- Fire Alarm /PA / Security System startup and testing.
- Permanent PG&E historic streetlights at O'Farrell and Stockton Street.
- Traffic cabinets.
- OCS Installation.  
Installation of traction conduits.



Activity ID	Activity Name	2020							2021					
		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>CENTRAL SUBWAY PROJECT</b>														
<b>Construction Phase</b>														
Construction CN-1300														
Construction YBM Station P-1255														
Concrete/Shotcrete														
Electrical														
Electrical - Transportation														
HeadHouse														
YBM.34.21.1095	YBM_IV 302 - Traction Power Rm: Set & Assemble - DC Switchgear													
YBM.34.21.1185	YBM_IV 302 - Traction Power Rm: Install - AC Control Cable Tray													
YBM.34.21.1065	YBM_IV 302 - Traction Power Rm: Install - Auxiliary Panel K02													
YBM.34.21.1085	YBM_IV 302 - Traction Power Rm: Install - Supervisory Panel SV01													
YBM.34.21.1175	YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear													
YBM.34.21.1195	YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC													
YBM.34.21.1145	YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray													
YBM.34.21.1075	YBM_IV 302 - Traction Power Rm: Install - Annunciator Panel K01													
YBM.34.22.0370	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02													
YBM.34.42.0165	Install Train Control Equipment - TCS/TCU Room													
YBM.34.21.1165	YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear													
YBM.34.21.1235	YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control													
YBM.34.22.0390	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS01 to PS04													
YBM.34.21.1125	YBM_IV 302 - Traction Power Rm: Install - Negative Feeder Cable Tray													
YBM.34.21.1205	YBM_IV 302 - Traction Power Rm: Pull & Terminate AC Control Cable													
YBM.34.21.1245	YBM_IV 302 - Traction Power Rm: Terminate - DC Control													
YBM.34.21.1255	YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder													
YBM.34.21.1265	YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)													
No 13-Location														
YBM.34.22.0330	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS0													
YBM.34.22.0340	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS0													
YBM.34.22.0360	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS0													
YBM.34.21.1105	YBM_IV 302 - Traction Power Rm: Install - Supervisory Control Cable Tray													
YBM.34.22.0380	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS0													
YBM.34.21.1115	YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable													
Conveyances														
Startup & Testing														
No 13-Disp														

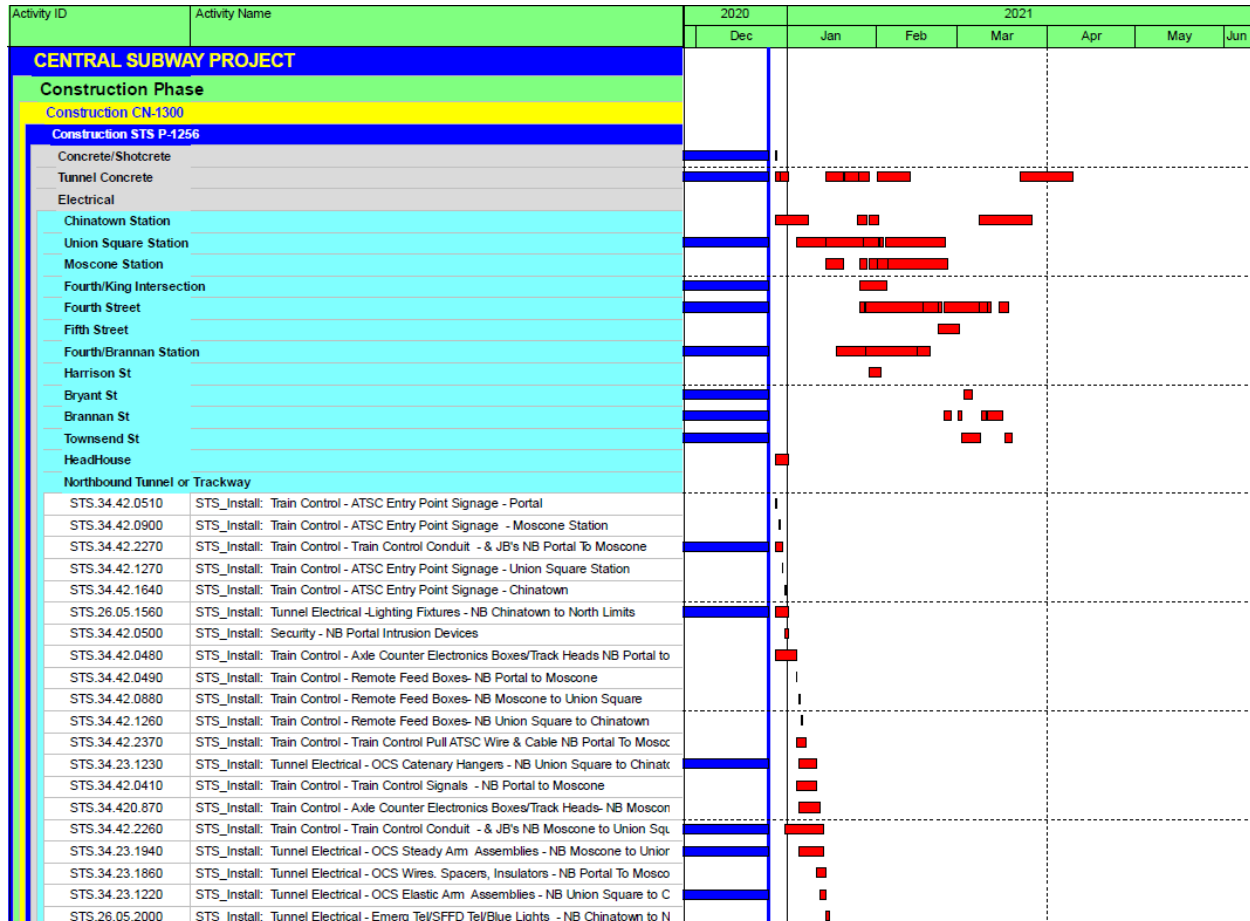
**Work Package P-1256 (STS) has performed the following work this month:**

- Continued 4<sup>th</sup>/Brannan platform construction
- Continued traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical power
- Continued traction power cable installation, terminations, and installation of cross bonds throughout the tunnel.
- Continued OCS hanger installation and installation of OCS risers throughout the tunnel
- Continued installation of ATCS and radio system
- Continued fiber system installation

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

- Continue 4<sup>th</sup>/Brannan platform construction
- Continue surface signaling work on 4<sup>th</sup> St.
- Continue traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical
- Continue traction power cable testing, installation and terminations
- Continue tunnel lighting, mini power, OCS hanger, ATCS, and radio system installation

- Continue fiber system installation
- Start FDC installation near 4<sup>th</sup> St. portal



**SCHEDULE REVISIONS**

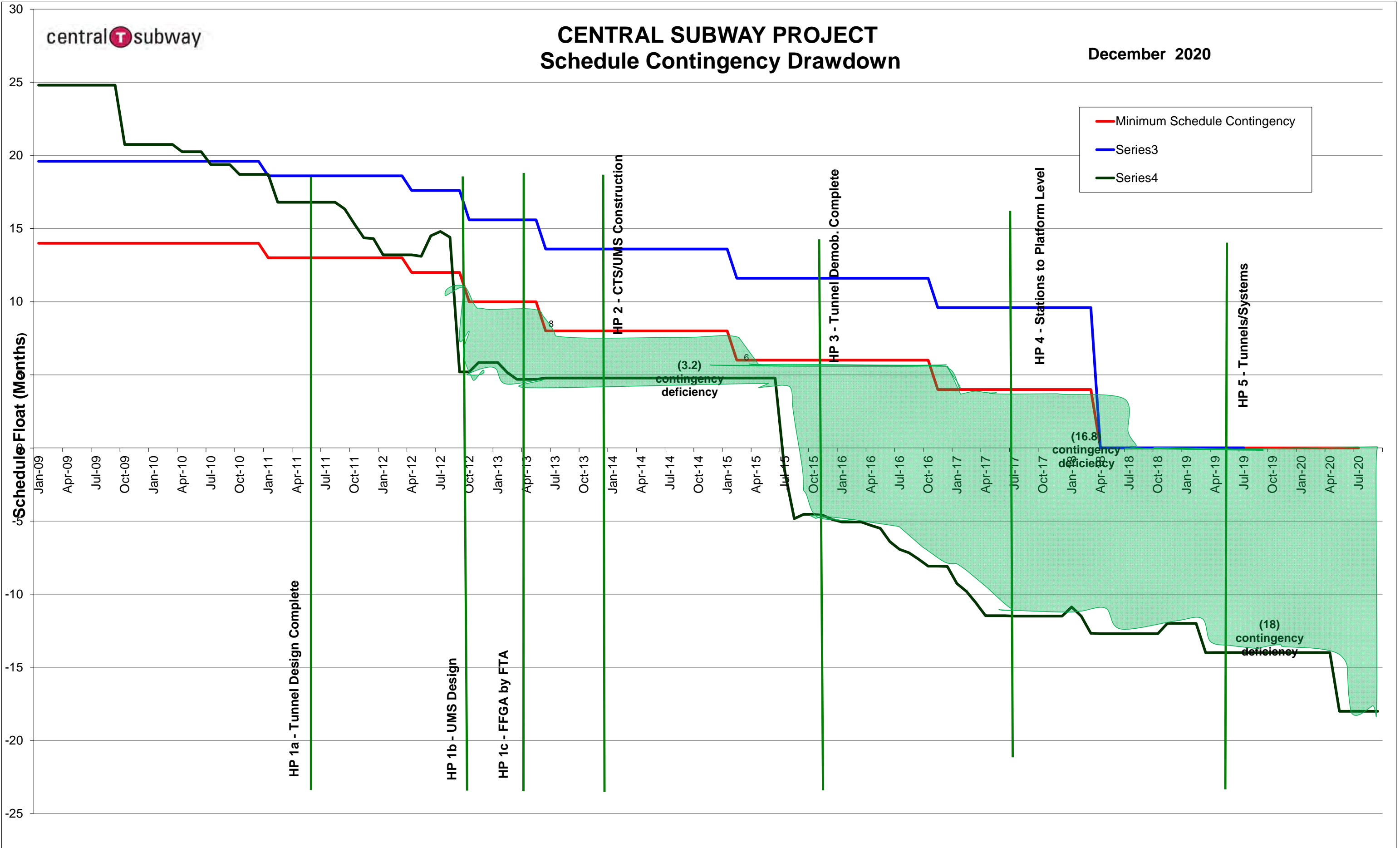
The SFMTA Contract 1300 December 2020 schedule update was added this period to the Central Subway Project Master Schedule.

**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

December 2020



Activity ID	Activity Name	Original Duration	Start	Finish	2021				2022							
					Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
<b>CENTRAL SUBWAY PROJECT</b>		5082	03-Jun-03 A	25-Nov-22	CENT											
<b>Program Level Milestones</b>		5202	03-Jun-03 A	31-Mar-22	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		31-Mar-22*	◆ Baseline Finish Date: 12-26-2018											
MS0009	CSP Revenue Service Date	0		31-Mar-22*	◆ 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>		2993	15-Apr-13 A	24-Jun-21	Light Rail Vehicles											
<b>Real Estate</b>		3130	01-Aug-08 A	02-Jan-14 A												
<b>Construction Phase</b>		3363	04-Jan-10 A	25-Nov-22	Const											
<b>Construction Support and Costs</b>		3974	04-Jan-10 A	25-Nov-22	Const											
<b>Construction Utility Contract #1- MOS &amp; Portal CN-1250</b>		505	04-Jan-10 A	23-May-11 A												
<b>Construction Utility Contract #2 - UMS CN-1251</b>		643	12-Jan-11 A	15-Oct-12 A												
<b>Construction Tunnels CN-1252</b>		1518	08-Jun-11 A	28-Dec-20	Construction Tunnels CN-1252											
<b>Construction STS P-1256 ATCS</b>		1825	20-May-14 A	18-Jun-21	Construction STS P-1256 ATCS											
<b>Construction STS P-XXXX Radio</b>		195	27-Aug-19 A	03-Sep-21	Construction STS P-XXXX Radio											
<b>Construction CN-1300</b>		2143	03-Jun-13 A	05-Sep-21	Construction CN-1300											
<b>CN- 1300 Milestone</b>		2143	17-Jun-13 A	05-Sep-21	CN- 1300 Milestone											
<b>Construction UMS Station P-1253</b>		2080	17-Jun-13 A	08-Jun-21	Construction UMS Station P-1253											
<b>Construction CTS Station P-1254R</b>		2080	17-Jun-13 A	08-Jun-21	Construction CTS Station P-1254R											
<b>Construction YBM Station P-1255</b>		2080	10-Jun-13 A	08-Jun-21	Construction YBM Station P-1255											
<b>Construction STS P-1256</b>		2080	03-Jun-13 A	08-Jun-21	Construction STS P-1256											
<b>Project Start Up</b>		296	07-Jun-21	31-Mar-22	Project Start Up											
<b>Unallocated Contingency</b>		317	28-Dec-20	30-Mar-22	Unallocated Contingency											



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022				2023		
						Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
<b>Program Level Milestones</b>																
MS0019	Baseline Finish Date: 12-26-2018	0	31-Mar-22	31-Mar-22*	-461										◆ Baseline Finish Date: 12-26-2018	
MS0009	CSP Revenue Service Date	0		31-Mar-22*	-461										◆ CSP Revenue Service Date	
<b>CN- 1300 Milestone</b>																
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0	07-Jun-21	07-Jun-21	-672										◆ Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	
<b>Construction STS P-1256</b>						519	13-May-19 A	07-Jun-21	-480							
STS.34.23.1800	STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal	3	20-May-20 A	28-Dec-20	-475										STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal	
STS.34.23.0460	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Portal To Moscone	5	30-Sep-19 A	30-Dec-20	-475										STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Portal To Moscone	
STS.34.23.1970	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - In NB Portal	5	29-Dec-20	04-Jan-21	-475										STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - In NB Portal	
STS.34.23.1930	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Portal To Moscone	7	08-Sep-20 A	08-Jan-21	-475										STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Portal To Moscone	
STS.34.23.1830	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - In NB Portal	4	05-Jan-21	08-Jan-21	-475										STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - In NB Portal	
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Portal To Moscor	4	11-Jan-21	14-Jan-21	-475										STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Portal To Moscone	
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Moscone to Unio	6	15-Jan-21	22-Jan-21	-475										STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Moscone to Union Square	
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Union Square to	8	25-Jan-21	03-Feb-21	-475										STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Union Square to Chinatown	
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To N	8	04-May-20 A	09-Feb-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box	
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01	2	09-Nov-20 A	11-Feb-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box	
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull B	5	12-Feb-21	18-Feb-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890	
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB I	1	01-Jun-20 A	19-Feb-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS South Platform	
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To N	7	04-May-20 A	24-Feb-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS To MOS (Ckt WA	
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11	1	25-Feb-21	25-Feb-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS South Platform	
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04	3	08-Dec-20 A	01-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MOS (Ckt FO-12)	
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10	1	02-Mar-21	02-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS South Platform	
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06	1	03-Mar-21	03-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MOS (Ckt WA -11	
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To N	15	08-Jun-20 A	09-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS To UMS	
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To F	2	10-Mar-21	11-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS North Platfor	
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB I	2	05-Oct-20 A	12-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS South Platform	
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18	1	15-Mar-21	15-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS South Platform	
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12	3	14-Dec-20 A	16-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To UMS	
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01	1	07-Dec-20 A	17-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS North Platform	
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To F	2	05-Oct-20 A	18-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - Chinatown to Nor	
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06	1	19-Mar-21	19-Mar-21	-475										STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatown to North Li	
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	24-Mar-21	-475										STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Sc	13	22-Mar-21	07-Apr-21	-475										STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chir	14	22-Mar-21	08-Apr-21	-475										STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North L	2	09-Apr-21	12-Apr-21	-475										STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limits	
STS.34.42.425	Startup & Testing - Tunnel & ATSC Systems	40	13-Apr-21	07-Jun-21	-475										Startup & Testing - Tunnel & ATSC Systems	
<b>Project Start Up</b>						296	07-Jun-21	31-Mar-22	-670							
STU1010	S&S Certification / Pre-Revenue Activities	205	07-Jun-21	30-Mar-22	-461										S&S Certification / Pre-Revenue Activities	
BUF0018	Muni Float	0	31-Mar-22	31-Mar-22	-461										Muni Float	

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019				2020				2021		2022	
				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	Q1	Q2						
<b>CENTRAL SUBWAY PROJECT</b>	<b>2671</b>	<b>08-Jun-11 A</b>	<b>05-Sep-21</b>																																								
<b>Construction Phase</b>	<b>2671</b>	<b>08-Jun-11 A</b>	<b>05-Sep-21</b>																																								
Construction Tunnels CN-1252	1518	08-Jun-11 A	15-May-15 A																																								
1252 Tunnel Contract BIH	1518	08-Jun-11 A	15-May-15 A																																								
Contract Milestones	1437	08-Jun-11 A	15-May-15 A																																								
General Conditions	1480	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																																								
<b>Construction CN-1300</b>	<b>2143</b>	<b>03-Jun-13 A</b>	<b>05-Sep-21</b>																																								
CN- 1300 Milestone	2143	17-Jun-13 A	05-Sep-21																																								
Construction UMS Station P-1253	2080	17-Jun-13 A	08-Jun-21																																								
Construction CTS Station P-1254R	2080	17-Jun-13 A	08-Jun-21																																								
Construction YBM Station P-1255	2080	10-Jun-13 A	08-Jun-21																																								
Construction STS P-1256	2080	03-Jun-13 A	08-Jun-21																																								

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020		2021			
						Q4	Q1	Q2	Q3		
<b>CENTRAL SUBWAY PROJECT</b>											
<b>Light Rail Vehicles</b>						1193	29-Aug-16 A	24-Jun-21	-269		
<b>Construction Phase</b>						3794	04-Jan-10 A	06-Jul-23	174		
<b>Construction Support and Costs</b>						5314	04-Jan-10 A	06-Jul-23	244		
<b>Construction STS P-1256 ATCS</b>						1142	16-May-16 A	18-Jun-21	-190		
<b>Construction CN-1300</b>						1929	09-Jan-14 A	07-Jun-21	64		
<b>CN- 1300 Milestone</b>						90	26-Dec-20	25-Mar-21	-598		
<b>No 13-Disp</b>						90	26-Dec-20	25-Mar-21	-598		
<b>Construction UMS Station P-1253</b>						1912	09-Jan-14 A	07-Jun-21	64		
<b>Mechanical</b>						284	04-Nov-19 A	15-Mar-21	-428		
<b>Electrical</b>						694	10-Jul-17 A	11-May-21	-461		
<b>All Locations</b>						15	03-Mar-21	24-Mar-21	-422		
<b>Union Square Station</b>						141	29-Jun-20 A	11-May-21	-456		
UMS.26.08.9020	UMS_ Fire Alarm System Commissioning	10	28-Apr-21	11-May-21	-456					UMS_ Fire Alarm System Commissioning	
UMS.26.08.9030	UMS_ Lighting System & Lighting Control Commissioning	10	29-Jun-20 A	11-May-21	-456					UMS_ Lighting System & Lighting Control	
<b>Station Platform Footprint (Between Headwalls)</b>						649	10-Jul-17 A	09-Mar-21	-416		
UMS.28.13.0160	UMS_MZ_Install: Security: Access Control System Mezzanine Level	15	08-Jan-18 A	29-Dec-20	-416					UMS_MZ_Install: Security: Access Control System Mezzanine Level	
UMS.08.85.0140	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 3	2	28-Dec-20	29-Dec-20	-401					UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 3	
UMS.26.24.2880	UMS_PL_04 - Aux Elect Rm: Install Raceway - Panelboard UE4NHL	2	17-Jul-17 A	30-Dec-20	-372					UMS_PL_04 - Aux Elect Rm: Install Raceway - Panelboard UE4NHL	
UMS.26.24.4480	UMS_CN_21 - Electrical Closet: Pull Data Cable LCP-C2 To Master Panel LCP-M (MZ11)	3	28-Dec-20	30-Dec-20	-402					UMS_CN_21 - Electrical Closet: Pull Data Cable LCP-C2 To Master Panel LCP-M (MZ11)	
UMS.09.53.0460	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 3	3	28-Dec-20	30-Dec-20	-412					UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 3	
UMS.09.53.0470	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 4	3	28-Dec-20	30-Dec-20	-407					UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 4	
UMS.08.85.0190	UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 4	5	07-May-18 A	01-Jan-21	-386					UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 4	
UMS.26.24.4520	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHL to 4SHL (PL12))	5	29-Dec-20	04-Jan-21	-375					UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHL to 4SHL (PL12))	
UMS.26.24.4560	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel E3DHL To UE4SHL (PL12)	5	29-Dec-20	04-Jan-21	-375					UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel E3DHL To UE4SHL (PL12)	
UMS.26.24.4550	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHP4 To Esc 4-6	3	01-Jan-21	05-Jan-21	-406					UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHP4 To Esc 4-6	
UMS.08.85.0210	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 4	2	04-Jan-21	05-Jan-21	-386					UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 4	
UMS.34.05.0290	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-1 (Traction Power)	5	31-Dec-20	06-Jan-21	-438					UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-1 (Traction Power)	
UMS.09.53.0490	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures to Fixtures Sector 3	5	31-Dec-20	06-Jan-21	-412					UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures to Fixtures Sector 3	
UMS.09.53.0500	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures Sector 4	5	31-Dec-20	06-Jan-21	-407					UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures Sector 4	
UMS.09.53.0480	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 5	3	07-Jan-21	11-Jan-21	-412					UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 5	
UMS.34.05.0340	UMS_MZ_Install Conduit Riser PB-1 to NB Feeder Boxes PS01 (Traction Power)	5	06-Jan-21	12-Jan-21	-437					UMS_MZ_Install Conduit Riser PB-1 to NB Feeder Boxes PS01 (Traction Power)	
UMS.09.53.0510	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures Sector 5	5	07-Jan-21	13-Jan-21	-412					UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures Sector 5	
UMS.28.31.9610	UMS_CN_Safety & Security - Testing - Fire Alarm System Concourse Level	2	13-Jan-21	14-Jan-21	-377					UMS_CN_Safety & Security - Testing - Fire Alarm System Concourse Level	
UMS.10.14.0290	UMS_PL_Install Platform Level Signage	14	26-May-20 A	14-Jan-21	-413					UMS_PL_Install Platform Level Signage	
UMS.26.24.4620	UMS_PL_04 - Aux Comm Rm - Terminate CCTV Cabinets	10	05-May-20 A	18-Jan-21	-415					UMS_PL_04 - Aux Comm Rm - Terminate CCTV Cabinets	
UMS.34.42.0175	UMS_PL_Install Train Control Equipment - TCS/TCU Room	15	29-Dec-20	18-Jan-21	-446					UMS_PL_Install Train Control Equipment - TCS/TCU Room	
UMS.34.22.0510	UMS_PL_Terminate NB Cable - Positive Feeder Box PS01	2	15-Jan-21	18-Jan-21	-430					UMS_PL_Terminate NB Cable - Positive Feeder Box PS01	
UMS.26.24.2540	UMS_MZ_11 - Aux Elect Rm: Terminations - Elect Panel LCP-M	2	18-Jan-21	19-Jan-21	-386					UMS_MZ_11 - Aux Elect Rm: Terminations - Elect Panel LCP-M	
UMS.34.05.0330	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-4 (Traction Power)	5	14-Jan-21	20-Jan-21	-443					UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-4 (Traction Power)	
UMS.34.05.0320	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-3 (Traction Power)	5	14-Jan-21	20-Jan-21	-443					UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-3 (Traction Power)	
UMS.26.24.2470	UMS_CN_21 - Energize - Electrical Closet Room Lighting Panels	1	21-Jan-21	21-Jan-21	-393					UMS_CN_21 - Energize - Electrical Closet Room Lighting Panels	
UMS.34.22.0450	UMS_PL_Terminate NB Cable Positive Feeder Box PS05	2	21-Jan-21	22-Jan-21	-434					UMS_PL_Terminate NB Cable Positive Feeder Box PS05	
UMS.28.13.0150	UMS_PL_Install: Security: Access Control System Platform Level	15	10-Jul-17 A	25-Jan-21	-395					UMS_PL_Install: Security: Access Control System Platform Level	
UMS.34.22.0470	UMS_PL_Terminate SB Cable - Positive Feeder Box PS02	2	25-Jan-21	26-Jan-21	-436					UMS_PL_Terminate SB Cable - Positive Feeder Box PS02	
UMS.34.42.175	UMS_PL_Install Train Control Raceway - TCS/TCU Room To Trackway Connection	15	06-Aug-18 A	26-Jan-21	-446					UMS_PL_Install Train Control Raceway - TCS/TCU Room To Trackway Connection	
UMS.26.24.4600	UMS_MZ-05 - Main Comm Rm - Terminate CCTV Cabinets	10	03-Apr-20 A	28-Jan-21	-423					UMS_MZ-05 - Main Comm Rm - Terminate CCTV Cabinets	
UMS.34.22.0430	UMS_PL_Terminate SB Cable - Positive Feeder Box PS03	2	28-Jan-21	29-Jan-21	-439					UMS_PL_Terminate SB Cable - Positive Feeder Box PS03	
UMS.34.22.0490	UMS_PL_Terminate SB Cable - Positive Feeder Box PS06	2	01-Feb-21	02-Feb-21	-441					UMS_PL_Terminate SB Cable - Positive Feeder Box PS06	
UMS.34.22.0520	UMS_PL_Terminate NB Cable - Positive Feeder Box PS04	2	01-Feb-21	02-Feb-21	-441					UMS_PL_Terminate NB Cable - Positive Feeder Box PS04	



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021		
						Q4	Q1	Q2	Q3			
UMS.26.24.4580	UMS_CN_30 -Aux Comm Rm -Terminate CCTV Cabinet	9	20-Apr-20 A	11-Feb-21	-433							
UMS.34.42.185	UMS_PL Install Train Control Cable - TCS/TCU Room To Trackway Connection	15	27-Jan-21	16-Feb-21	-446							
UMS.28.31.0160	UMS_MZ Install Security: Addressable Fire Alarm System Mezzanine Level	15	04-Jun-18 A	03-Mar-21	-411							
UMS.28.31.0180	UMS_PL Install Security: Addressable Fire Alarm System Platform Level	15	04-Jun-18 A	03-Mar-21	-411							
UMS.28.31.9600	UMS_SU Safety & Security - Testing - Fire Alarm System Entrance Level	2	04-Mar-21	05-Mar-21	-409							
UMS.28.31.9620	UMS_MZ Safety & Security - Testing - Fire Alarm System Mezzanine Level	2	04-Mar-21	05-Mar-21	-411							
UMS.28.31.9630	UMS_PL Safety & Security - Testing - Fire Alarm System Platform Level	2	08-Mar-21	09-Mar-21	-411							
UMS.34.42.195	UMS_PL Train Control Terminations - TCS/TCU Room To Trackway Connection	15	17-Feb-21	09-Mar-21	-446							
UMS.34.42.205	UMS_PL Train Control Room - Energize Panels	5	03-Mar-21	09-Mar-21	-446							
<b>South Concourse - Stockton St</b>		<b>581</b>	<b>21-May-18 A</b>	<b>05-Jan-21</b>	<b>-371</b>							
<b>North Concourse - Stockton St</b>		<b>622</b>	<b>08-Jan-18 A</b>	<b>04-Mar-21</b>	<b>-412</b>							
<b>Electrical - Transportation</b>		<b>612</b>	<b>29-Mar-18 A</b>	<b>04-Mar-21</b>	<b>-448</b>							
<b>Architectural Finishes</b>		<b>307</b>	<b>02-Apr-20 A</b>	<b>25-Mar-21</b>	<b>-433</b>							
<b>Conveyances</b>		<b>236</b>	<b>26-Mar-20 A</b>	<b>10-Mar-21</b>	<b>-412</b>							
<b>Stairs</b>		<b>5</b>	<b>07-Sep-20 A</b>	<b>26-Feb-21</b>	<b>-447</b>							
<b>Startup &amp; Testing</b>		<b>40</b>	<b>17-Mar-21</b>	<b>11-May-21</b>	<b>-456</b>							
<b>No 13-Disp</b>		<b>1865</b>	<b>09-Jan-14 A</b>	<b>07-Jun-21</b>	<b>64</b>							
<b>Construction CTS Station P-1254R</b>		<b>1906</b>	<b>10-Jul-14 A</b>	<b>07-Jun-21</b>	<b>64</b>							
<b>Site Work / Utility Relocation</b>		<b>373</b>	<b>05-Aug-19 A</b>	<b>26-Mar-21</b>	<b>-425</b>							
<b>Concrete/Shotcrete</b>		<b>5</b>	<b>06-Jul-20 A</b>	<b>05-Mar-21</b>	<b>-424</b>							
<b>Mechanical</b>		<b>571</b>	<b>05-Mar-18 A</b>	<b>03-Mar-21</b>	<b>-407</b>							
<b>Misc Metal</b>		<b>116</b>	<b>03-Aug-20 A</b>	<b>27-Jan-21</b>	<b>-388</b>							
<b>Electrical</b>		<b>563</b>	<b>07-May-18 A</b>	<b>26-Mar-21</b>	<b>-424</b>							
<b>Electrical - Transportation</b>		<b>313</b>	<b>16-Dec-19 A</b>	<b>18-Feb-21</b>	<b>-438</b>							
<b>Architectural Finishes</b>		<b>486</b>	<b>06-May-19 A</b>	<b>02-Apr-21</b>	<b>-429</b>							
<b>HeadHouse</b>		<b>5</b>	<b>07-Sep-20 A</b>	<b>05-Mar-21</b>	<b>-424</b>							
<b>No 13-Location</b>		<b>486</b>	<b>06-May-19 A</b>	<b>02-Apr-21</b>	<b>-429</b>							
CTS.08.33.539	CTS_CN 13 - Concessions: Install - Roll Down Door (CN-13B)	5	28-Dec-20	01-Jan-21	-418							
CTS.07.43.140	CTS_LM 10 - Install Glass Ceramic Wall Panel System - North Wall Above Escalators	9	26-Nov-20 A	07-Jan-21	-425							
CTS.09.20.582	CTS_SU 01 -Entrance : Apply Cementitious Ceiling Plaster	5	03-Aug-20 A	07-Jan-21	-368							
CTS.21.13.782	CTS_PL 05 Install - Under Platform Sprinkler Mains Sector 2	10	10-May-19 A	08-Jan-21	-408							
CTS.07.72.212	CTS_Roof - Stair 5: Install - Roof Hatch	5	05-Jan-21	11-Jan-21	-380							
CTS.07.54.525	CTS_Roof - Entrance: Install - Tapered Roof Insulation	5	10-Dec-20 A	18-Jan-21	-380							
CTS.21.13.792	CTS_PL 05 Install - Under Platform Sprinkler Mains Sector 1	9	06-May-19 A	21-Jan-21	-408							
CTS.07.43.150	CTS_UM 10 - Install Glass Ceramic Wall Panel System - North Wall Above Escalators	10	09-Nov-20 A	21-Jan-21	-425							
CTS.09.66.702	CTS_CN - Station Concourse: Layout Design - Terrazzo Flooring	5	03-Feb-20 A	22-Jan-21	-414							
CTS.09.53.634	CTS_PL Station Platform:Stair : Install - Aluminum Cladding	3	20-Jan-21	22-Jan-21	-382							
CTS.07.54.526	CTS_Roof - Entrance: Install - TPO Roof Membrane	5	16-Dec-20 A	25-Jan-21	-380							
CTS.10.28.118	CTS_PL 15 - Traction Power Rm: Set & Hook up - Eye Wash Station	1	25-Jan-21	25-Jan-21	-380							
CTS.09.90.508	CTS_CN 14 - Trash Rm: Seal Concrete Floor	1	25-Jan-21	25-Jan-21	-430							
CTS.09.90.349	CTS_UM 05 - Sewage Rm: Seal Concrete Floor	1	25-Jan-21	25-Jan-21	-395							
CTS.09.90.520	CTS_CN 24 - Valve Rm: Seal Concrete Floor	2	25-Jan-21	26-Jan-21	-396							
CTS.09.90.350	CTS_UM 09 - Fan Rm: Seal Concrete Floor	2	25-Jan-21	26-Jan-21	-406							
CTS.09.90.504	CTS_LM 08 - Aux Elect Rm: Seal Concrete Floor	2	25-Jan-21	26-Jan-21	-396							
CTS.09.90.431	CTS_UP 01 - Sump Pump Rm: Seal Concrete Floor	2	25-Jan-21	26-Jan-21	-426							
CTS.09.53.644	CTS_PL Station Platform:Stair : Install - Glass Enclosure	3	05-Oct-20 A	27-Jan-21	-382							
CTS.09.66.301	CTS_CN 03 Ticket Hall - Prepare Floor Surface - Terrazzo Flooring	5	22-Jan-21	28-Jan-21	-425							
CTS.09.66.302	CTS_CN 03 Ticket Hall - Layout Design - Terrazzo Flooring	5	22-Jan-21	28-Jan-21	-425							
CTS.09.53.502	CTS_LM 05 - Workshop: Install - Perforated Aluminum Ceiling Panels	4	12-Oct-20 A	28-Jan-21	-398							
CTS.05.50.532	CTS_CN 02 - Station Agent Booth: Install - Red Metal Cladding	2	28-Jan-21	29-Jan-21	-441							



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021			
						Q4				Q1	Q2		Q3
CTS.09.53.512	CTS_LM 04 - Operation Rm: Install - Perforated Aluminum Ceiling Panels	5	05-Oct-20 A	29-Jan-21	-402					■	CTS_LM 04 - Operation Rm: Install - Perforated Aluminum Ceiling Panels		
CTS.09.90.532	CTS_PL 02 - Fire Equip Rm: Paint Ceiling - Sector 1	5	25-Jan-21	29-Jan-21	-441					■	CTS_PL 02 - Fire Equip Rm: Paint Ceiling - Sector 1		
CTS.09.66.716	CTS_CN 13 - Concessions: Layout Design - Terrazzo Flooring	5	26-Jan-21	01-Feb-21	-414					■	CTS_CN 13 - Concessions: Layout Design - Terrazzo Flooring		
CTS.09.65.530	CTS_CN 10 - Emergency Command Rm: Install - Linoleum Flooring	5	26-Jan-21	01-Feb-21	-400					■	CTS_CN 10 - Emergency Command Rm: Install - Linoleum Flooring		
CTS.09.53.545	CTS_CN 16 - Break Rm: Install - Perforated Aluminum Ceiling Panel System	5	12-Oct-20 A	01-Feb-21	-430					■	CTS_CN 16 - Break Rm: Install - Perforated Aluminum Ceiling Panel System		
CTS.10.28.640	CTS_CN 20 - Womens Restroom: Install - Toilet Accessories	2	29-Jan-21	01-Feb-21	-400					■	CTS_CN 20 - Womens Restroom: Install - Toilet Accessories		
CTS.09.90.505	CTS_LM 11 - Fan Rm: Seal Concrete Floor	2	01-Feb-21	02-Feb-21	-401					■	CTS_LM 11 - Fan Rm: Seal Concrete Floor		
CTS.09.65.511	CTS_LM 04 - Operation Rm: Install - Linoleum Flooring	3	01-Feb-21	03-Feb-21	-402					■	CTS_LM 04 - Operation Rm: Install - Linoleum Flooring		
CTS.09.65.544	CTS_CN 16 - Break Rm: Install - Linoleum Flooring	2	02-Feb-21	03-Feb-21	-402					■	CTS_CN 16 - Break Rm: Install - Linoleum Flooring		
CTS.09.53.535	CTS_CN 03 - Ticketing Hall: Install - Perforated Aluminum Ceiling Panel System	15	01-Jun-20 A	05-Feb-21	-404					■	CTS_CN 03 - Ticketing Hall: Install - Perforated Aluminum Ceiling Panel System		
CTS.09.66.718	CTS_CN 13 - Concessions: Install - Terrazzo Flooring	5	02-Feb-21	08-Feb-21	-414					■	CTS_CN 13 - Concessions: Install - Terrazzo Flooring		
CTS.09.53.529	CTS_CN 02 - Station Agent Booth: Install - White Aluminum Ceiling Panels	10	28-Jan-21	10-Feb-21	-449					■	CTS_CN 02 - Station Agent Booth: Install - White Aluminum Ceiling Panels		
CTS.10.28.440	CTS_CN 22 - Mens Restroom: Install - Toilet Accessories	4	05-Feb-21	10-Feb-21	-409					■	CTS_CN 22 - Mens Restroom: Install - Toilet Accessories		
CTS.09.66.303	CTS_CN 03 Ticket Hall - Install - Terrazzo Flooring	10	29-Jan-21	11-Feb-21	-425					■	CTS_CN 03 Ticket Hall - Install - Terrazzo Flooring		
CTS.09.66.720	CTS_CN 13 - Concessions: Install - Terrazzo Cove Base	3	09-Feb-21	11-Feb-21	-414					■	CTS_CN 13 - Concessions: Install - Terrazzo Cove Base		
CTS.10.28.540	CTS_PL 07 - Womens Restroom: Install - Toilet Accessories	1	11-Feb-21	11-Feb-21	-408					■	CTS_PL 07 - Womens Restroom: Install - Toilet Accessories		
CTS.10.28.448	CTS_CN 22 - Mens Restroom: Install - Toilet Accessories - Mirror	2	11-Feb-21	12-Feb-21	-409					■	CTS_CN 22 - Mens Restroom: Install - Toilet Accessories - Mirror		
CTS.10.28.530	CTS_PL 08 - Mens Restroom: Install - Toilet Accessories	1	12-Feb-21	12-Feb-21	-409					■	CTS_PL 08 - Mens Restroom: Install - Toilet Accessories		
CTS.05.50.551	CTS_CN 02 - Station Agent Booth: Install - Interior SS Panels	2	13-Jan-20 A	12-Feb-21	-449					■	CTS_CN 02 - Station Agent Booth: Install - Interior SS Panels		
CTS.07.43.581	CTS_CN 02 - Station Agent Booth: Install - Glass Ceramic Counters	3	15-Feb-21	17-Feb-21	-435					■	CTS_CN 02 - Station Agent Booth: Install - Glass Ceramic Counters		
CTS.10.28.588	CTS_CN 21 - Mens Staff Lockers: Mirror	1	17-Feb-21	17-Feb-21	-412					■	CTS_CN 21 - Mens Staff Lockers: Mirror		
CTS.09.66.722	CTS_CN 13 - Concessions: Grind & Polish - Terrazzo Flooring & Cove Base	5	12-Feb-21	18-Feb-21	-414					■	CTS_CN 13 - Concessions: Grind & Polish - Terrazzo Flooring & Cove Base		
CTS.09.66.724	CTS_CN 13 - Concessions: Seal - Terrazzo Flooring & Cove Base	1	19-Feb-21	19-Feb-21	-414					■	CTS_CN 13 - Concessions: Seal - Terrazzo Flooring & Cove Base		
CTS.09.66.706	CTS_CN - Station Concourse: Seal - Terrazzo Flooring & Cove Base	5	15-Feb-21	19-Feb-21	-414					■	CTS_CN - Station Concourse: Seal - Terrazzo Flooring & Cove Base		
CTS.10.14.125	CTS_CN 02 - Station Agent Booth: Install - Signage	1	22-Feb-21	22-Feb-21	-430					■	CTS_CN 02 - Station Agent Booth: Install - Signage		
CTS.10.51.562	CTS_CN 21 - Mens Staff Lockers: Install - Metal Lockers	5	17-Feb-21	23-Feb-21	-416					■	CTS_CN 21 - Mens Staff Lockers: Install - Metal Lockers		
CTS.07.54.254	CTS_Roof - Stair 5: Install - TPO Roof Membrane	5	30-Nov-20 A	26-Feb-21	-424					■	CTS_Roof - Stair 5: Install - TPO Roof Membrane		
CTS.10.14.145	CTS_PL 02 - Install - Signage	5	12-Oct-20 A	01-Mar-21	-430					■	CTS_PL 02 - Install - Signage		
CTS.08.44.155	CTS_CN - Ticket Hall: Install - Elevator Glass Enclosure Panel System	5	02-Nov-20 A	02-Mar-21	-445					■	CTS_CN - Ticket Hall: Install - Elevator Glass Enclosure Panel System		
CTS.09.66.801	CTS_UM 10 - Landing: Prepare Floor Surface - Terrazzo Flooring	3	01-Mar-21	03-Mar-21	-439					■	CTS_UM 10 - Landing: Prepare Floor Surface - Terrazzo Flooring		
CTS.12.10.050	CTS_Prepare: Art Installation Mockups	5	01-Mar-21	05-Mar-21	-444					■	CTS_Prepare: Art Installation Mockups		
CTS.09.66.802	CTS_UM 10 - Landing: Layout Design - Terrazzo Flooring	2	04-Mar-21	05-Mar-21	-439					■	CTS_UM 10 - Landing: Layout Design - Terrazzo Flooring		
CTS.10.14.155	CTS_MZ 02 - Install - Signage	5	19-Oct-20 A	08-Mar-21	-430					■	CTS_MZ 02 - Install - Signage		
CTS.08.44.160	CTS_LM - Ticket Hall: Install - Elevator Glass Enclosure Panel System	5	03-Mar-21	09-Mar-21	-445					■	CTS_LM - Ticket Hall: Install - Elevator Glass Enclosure Panel System		
CTS.09.66.304	CTS_CN 03 Ticket Hall - Install - Terrazzo Cove Base	5	04-Mar-21	10-Mar-21	-447					■	CTS_CN 03 Ticket Hall - Install - Terrazzo Cove Base		
CTS.08.80.580	CTS_CN 02 - Station Agent Booth - Install Glazing & Glass Door	3	08-Mar-21	10-Mar-21	-447					■	CTS_CN 02 - Station Agent Booth - Install Glazing & Glass Door		
CTS.09.66.711	CTS_CN 02 - Station Agent Booth: Install - Raised Floor with Precast Terrazzo	5	04-Mar-21	10-Mar-21	-447					■	CTS_CN 02 - Station Agent Booth: Install - Raised Floor with Precast Terrazzo		
CTS.09.66.803	CTS_UM 10 - Landing: Install - Terrazzo Flooring	5	08-Mar-21	12-Mar-21	-439					■	CTS_UM 10 - Landing: Install - Terrazzo Flooring		
CTS.08.44.170	CTS_UM - Ticket Hall: Install - Elevator Glass Enclosure Panel System	4	10-Mar-21	15-Mar-21	-445					■	CTS_UM - Ticket Hall: Install - Elevator Glass Enclosure Panel System		
CTS.10.14.135	CTS_CN 02 - Install - Signage	5	12-Oct-20 A	15-Mar-21	-430					■	CTS_CN 02 - Install - Signage		
CTS.09.66.804	CTS_UM 10 - Landing: Install - Terrazzo Cove Base	3	15-Mar-21	17-Mar-21	-439					■	CTS_UM 10 - Landing: Install - Terrazzo Cove Base		
CTS.07.81.520	CTS_Roof - Entrance: Install - Intumescent Fireproofing over Structural Steel	5	03-Aug-20 A	19-Mar-21	-439					■	CTS_Roof - Entrance: Install - Intumescent Fireproofing over Structural S		
CTS.09.66.305	CTS_CN 03 Ticket Hall - Grind & Polish - Terrazzo Flooring & Cove Base	10	11-Mar-21	24-Mar-21	-439					■	CTS_CN 03 Ticket Hall - Grind & Polish - Terrazzo Flooring & Cove Bas		
CTS.09.66.805	CTS_UM 10 - Landing: Grind & Polish - Terrazzo Flooring & Cove Base	5	18-Mar-21	24-Mar-21	-439					■	CTS_UM 10 - Landing: Grind & Polish - Terrazzo Flooring & Cove Bas		
CTS.09.66.306	CTS_CN 03 Ticket Hall - Seal - Terrazzo Flooring & Cove Base	2	25-Mar-21	26-Mar-21	-439					■	CTS_CN 03 Ticket Hall - Seal - Terrazzo Flooring & Cove Base		
CTS.08.44.292	CTS_SU 01 - Entrance: Install - Glass Elevator Enclosure @ Elevators 3 & 4	5	22-Mar-21	26-Mar-21	-439					■	CTS_SU 01 - Entrance: Install - Glass Elevator Enclosure @ Elevato		
CTS.09.66.806	CTS_UM 10 - Landing: Seal - Terrazzo Flooring & Cove Base	2	25-Mar-21	26-Mar-21	-439					■	CTS_UM 10 - Landing: Seal - Terrazzo Flooring & Cove Base		
CTS.08.34.330	CTS_SU 01 - Entrance: Install - Roll Down Door (SU-01C)	5	22-Mar-21	26-Mar-21	-439					■	CTS_SU 01 - Entrance: Install - Roll Down Door (SU-01C)		
CTS.12.93.122	CTS_SU Exterior - Install - Two Bicycle Racks @ Stockton Street	2	26-Mar-21	29-Mar-21	-440					■	CTS_SU Exterior - Install - Two Bicycle Racks @ Stockton Street		
CTS.07.43.571	CTS_CN 03 - Ticketing Hall: Install - White Glass Ceramic Wall Panels	15	11-Mar-21	31-Mar-21	-442					■	CTS_CN 03 - Ticketing Hall: Install - White Glass Ceramic Wall Pa		

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020		2021		
						Q4	Q1	Q2	Q3	
CTS.12.10.150	CTS_Install: Art - Composite Panel Wall Art - Above Stockton St Entrance	5	29-Mar-21	02-Apr-21	-444					CTS_Install: Art - Composite Panel Wall Art - Above Stockton St
CTS.12.10.160	CTS_Install: Art - Composite Glass Panel Wall Art - South Platform	5	29-Mar-21	02-Apr-21	-429					CTS_Install: Art - Composite Glass Panel Wall Art - South Platform
CTS.12.10.100	CTS_CN Install: Art - Powder Coated Steel Panels - Concourse Ticketing Hall	5	29-Mar-21	02-Apr-21	-429					CTS_CN Install: Art - Powder Coated Steel Panels - Concourse T
CTS.12.10.110	CTS_UM Install: Art - Powder Coated Steel Panels - Upper Mezzanine Landing	5	29-Mar-21	02-Apr-21	-429					CTS_UM Install: Art - Powder Coated Steel Panels - Upper Mezz
CTS.12.10.120	CTS_Install: Art - Composite Panel Wall Art - Above Washington St Entrance	5	29-Mar-21	02-Apr-21	-429					CTS_Install: Art - Composite Panel Wall Art - Above Washington
CTS.12.10.130	CTS_Install: Art - Composite Glass Panel Wall Art - North Platform	5	29-Mar-21	02-Apr-21	-429					CTS_Install: Art - Composite Glass Panel Wall Art - North Platform
CTS.12.10.140	CTS_CN Install: Art - Mosaic Panel Wall Art - Cross Cut Cavern End Wall	5	29-Mar-21	02-Apr-21	-429					CTS_CN Install: Art - Mosaic Panel Wall Art - Cross Cut Cavern E
<b>Conveyances</b>		209	20-Apr-20 A	15-Mar-21	-440					
<b>Startup &amp; Testing</b>		30	23-Mar-21	03-May-21	-450					
<b>No 13-Disp</b>		1870	10-Jul-14 A	07-Jun-21	64					
<b>Construction YBM Station P-1255</b>		1889	10-Jul-14 A	07-Jun-21	64					
<b>Concrete/Shotcrete</b>		159	26-May-20 A	11-Jan-21	-415					
<b>Electrical</b>		109	07-Sep-20 A	23-Feb-21	-447					
<b>Electrical - Transportation</b>		453	28-May-19 A	05-Feb-21	-435					
<b>HeadHouse</b>		453	28-May-19 A	05-Feb-21	-435					
YBM.34.21.1095	YBM_IV 302 - Traction Power Rm: Set & Assemble - DC Switchgear	15	03-Jun-19 A	01-Jan-21	-444					YBM_IV 302 - Traction Power Rm: Set & Assemble - DC Switchgear
YBM.34.21.1185	YBM_IV 302 - Traction Power Rm: Install - AC Control Cable Tray	5	28-Dec-20	01-Jan-21	-429					YBM_IV 302 - Traction Power Rm: Install - AC Control Cable Tray
YBM.34.21.1085	YBM_IV 302 - Traction Power Rm: Install - Supervisory Panel SV01	5	28-May-19 A	01-Jan-21	-433					YBM_IV 302 - Traction Power Rm: Install - Supervisory Panel SV01
YBM.34.21.1175	YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear	2	04-Jan-21	05-Jan-21	-418					YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear
YBM.34.21.1195	YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear	2	06-Jan-21	07-Jan-21	-418					YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear
YBM.34.21.1145	YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray	5	04-Jan-21	08-Jan-21	-424					YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray
YBM.34.22.0370	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02	2	07-Sep-20 A	13-Jan-21	-423					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02
YBM.34.42.0165	Install Train Control Equipment - TCS/TCU Room	14	28-Dec-20	14-Jan-21	-413					Install Train Control Equipment - TCS/TCU Room
YBM.34.21.1165	YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear	10	04-Jan-21	15-Jan-21	-419					YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear
YBM.34.21.1235	YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control	5	11-Jan-21	15-Jan-21	-424					YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control
YBM.34.22.0390	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS01 to PS04	2	10-Dec-20 A	19-Jan-21	-423					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS01 to PS04
YBM.34.21.1125	YBM_IV 302 - Traction Power Rm: Install - Negative Feeder Cable Tray	5	18-Jan-21	22-Jan-21	-434					YBM_IV 302 - Traction Power Rm: Install - Negative Feeder Cable Tray
YBM.34.21.1205	YBM_IV 302 - Traction Power Rm: Pull & Terminate AC Control Cable	15	04-Jan-21	22-Jan-21	-429					YBM_IV 302 - Traction Power Rm: Pull & Terminate AC Control Cable
YBM.34.21.1245	YBM_IV 302 - Traction Power Rm: Terminate - DC Control	5	18-Jan-21	22-Jan-21	-424					YBM_IV 302 - Traction Power Rm: Terminate - DC Control
YBM.34.21.1255	YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder	5	25-Jan-21	29-Jan-21	-434					YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder
YBM.34.21.1265	YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)	5	01-Feb-21	05-Feb-21	-434					YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)
<b>No 13-Location</b>		69	30-Sep-20 A	04-Feb-21	-437					
YBM.34.22.0330	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS03	2	30-Sep-20 A	05-Jan-21	-423					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS03
YBM.34.22.0340	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS05	2	06-Jan-21	07-Jan-21	-423					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS05
YBM.34.22.0360	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS06	2	08-Jan-21	11-Jan-21	-423					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS06
YBM.34.21.1105	YBM_IV 302 - Traction Power Rm: Install - Supervisory Control Cable Tray	4	11-Jan-21	14-Jan-21	-438					YBM_IV 302 - Traction Power Rm: Install - Supervisory Control Cable Tray
YBM.34.22.0380	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS01	2	14-Jan-21	15-Jan-21	-423					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS01
YBM.34.21.1115	YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable	15	15-Jan-21	04-Feb-21	-438					YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable
<b>Conveyances</b>		145	13-Apr-20 A	03-Feb-21	-427					
<b>HeadHouse</b>		145	13-Apr-20 A	03-Feb-21	-427					
YBM.14.21.125	Startup & Test Elevators #1, 2	5	13-Apr-20 A	27-Jan-21	-422					Startup & Test Elevators #1, 2
YBM.14.31.207	Startup & Test Escalator #3,4 from Concourse to Surface Level	5	05-Oct-20 A	27-Jan-21	-422					Startup & Test Escalator #3,4 from Concourse to Surface Level
YBM.14.21.155	Startup & Test Elevators #3, 4	5	26-Nov-20 A	27-Jan-21	-422					Startup & Test Elevators #3, 4
YBM.14.31.197	Startup & Test Escalator #1,2 from Platform to Concourse Level	10	01-Oct-20 A	03-Feb-21	-427					Startup & Test Escalator #1,2 from Platform to Concourse Level
<b>Startup &amp; Testing</b>		40	21-Dec-20 A	07-May-21	-454					
<b>No 13-Disp</b>		1880	10-Jul-14 A	07-Jun-21	64					
<b>Construction STS P-1256</b>		1803	14-May-14 A	07-Jun-21	64					
<b>Tunnel Concrete</b>		676	26-Apr-18 A	12-Feb-21	-409					
<b>Electrical</b>		1151	14-May-14 A	12-Apr-21	104					
<b>Chinatown Station</b>		65	28-Dec-20	26-Mar-21	-464					
<b>Union Square Station</b>		38	04-Jan-21	24-Feb-21	-442					



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021					
						Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
<b>Moscone Station</b>															
	Fourth/King Intersection	31	14-Jan-21	25-Feb-21	-443										
	Fourth Street	221	26-Feb-20 A	04-Feb-21	-428										
	Fifth Street	882	17-Apr-17 A	18-Mar-21	-423										
<b>Fourth/Brannan Station</b>															
	Harrison St	6	22-Feb-21	01-Mar-21	-459										
	Bryant St	629	19-Feb-18 A	19-Feb-21	-419										
	Harrison St	3	29-Jan-21	02-Feb-21	-454										
	Bryant St	6	07-Jan-19 A	05-Mar-21	-454										
	Brannan St	625	19-Jun-17 A	16-Mar-21	-465										
	Townsend St	39	30-Dec-19 A	19-Mar-21	-459										
<b>Northbound Tunnel or Trackway</b>															
STS.34.42.0510	STS_Install: Train Control - ATSC Entry Point Signage - Portal	1151	20-Apr-16 A	12-Apr-21	-481										
STS.34.42.0900	STS_Install: Train Control - ATSC Entry Point Signage - Moscone Station	1	28-Dec-20	28-Dec-20	-403										
STS.34.42.2270	STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone	1	29-Dec-20	29-Dec-20	-403										
STS.34.42.1270	STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone	4	20-Mar-17 A	30-Dec-20	-447										
STS.34.42.1270	STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station	1	30-Dec-20	30-Dec-20	-403										
STS.34.42.1640	STS_Install: Train Control - ATSC Entry Point Signage - Chinatown	1	31-Dec-20	31-Dec-20	-403										
STS.34.42.0500	STS_Install: Security - NB Portal Intrusion Devices	1	31-Dec-20	31-Dec-20	-403										
STS.34.42.0500	STS_Install: Security - NB Portal Intrusion Devices	2	31-Dec-20	01-Jan-21	-427										
STS.34.42.0480	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to Moscone	6	28-Dec-20	04-Jan-21	-418										
STS.34.42.0490	STS_Install: Train Control - Remote Feed Boxes- NB Portal to Moscone	1	04-Jan-21	04-Jan-21	-408										
STS.34.42.0880	STS_Install: Train Control - Remote Feed Boxes- NB Moscone to Union Square	1	05-Jan-21	05-Jan-21	-408										
STS.34.42.1260	STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown	1	06-Jan-21	06-Jan-21	-408										
STS.34.42.2370	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone	1	06-Jan-21	06-Jan-21	-408										
STS.34.42.2370	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone	4	04-Jan-21	07-Jan-21	-437										
STS.34.23.1230	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Union Square to Chinatown	5	16-Mar-20 A	11-Jan-21	-473										
STS.34.42.0410	STS_Install: Train Control - Train Control Signals - NB Portal to Moscone	6	04-Jan-21	11-Jan-21	-427										
STS.34.420.870	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscone to Union Squ:	6	05-Jan-21	12-Jan-21	-418										
STS.34.42.2260	STS_Install: Train Control - Train Control Conduit - & JB's NB Moscone to Union Square	13	12-Mar-18 A	13-Jan-21	-447										
STS.34.23.1940	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Moscone to Union Square	7	03-Aug-20 A	13-Jan-21	-474										
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Portal To Moscone	4	11-Jan-21	14-Jan-21	-475										
STS.34.23.1220	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Union Square to Chinatown	3	03-Aug-20 A	14-Jan-21	-469										
STS.26.05.2000	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limits	2	14-Jan-21	15-Jan-21	-416										
STS.26.05.3790	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Union Square	5	11-Jan-21	15-Jan-21	-414										
STS.34.42.0790	STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square	6	12-Jan-21	19-Jan-21	-427										
STS.26.05.3800	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to	2	18-Jan-21	19-Jan-21	-416										
STS.34.42.1250	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Union Square to Chinat	6	12-Jan-21	20-Jan-21	-418										
STS.34.23.1950	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Union Square to Chinatown	7	03-Aug-20 A	20-Jan-21	-473										
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Moscone to Union Square	6	15-Jan-21	22-Jan-21	-475										
STS.34.42.1620	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Chinatown to North Limi	1	25-Jan-21	25-Jan-21	-420										
STS.34.42.1630	STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits	1	25-Jan-21	25-Jan-21	-420										
STS.34.23.1600	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Chinatown to North Limits	2	16-Mar-20 A	26-Jan-21	-431										
STS.34.42.0520	STS_Install: Train Control - NB Switch Machines @ Chinatown Crossover	2	19-Aug-19 A	26-Jan-21	-421										
STS.34.42.2280	STS_Install: Train Control - Train Control Conduit - & JB's NB Union Square to Chinatown	14	20-Apr-16 A	27-Jan-21	-447										
STS.34.23.1590	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Chinatown to North Limits	1	27-Jul-20 A	27-Jan-21	-427										
STS.34.42.1170	STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown	6	20-Jan-21	27-Jan-21	-427										
STS.34.42.1540	STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits	3	28-Jan-21	01-Feb-21	-427										
STS.34.23.1960	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Chinatown to North Limits	5	03-Aug-20 A	02-Feb-21	-431										
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Union Square to Chinatown	8	25-Jan-21	03-Feb-21	-475										
STS.34.42.2250	STS_Install: Train Control - Train Control Conduit - & JB's NB Chinatown to North Limits	5	28-Jan-21	03-Feb-21	-429										
STS.28.20.1720	STS_Install: Tunnel Electrical - CCTV Cameras - NB Portal To Moscone	2	05-Feb-21	08-Feb-21	-444										
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS Tr	8	04-May-20 A	09-Feb-21	-475										
STS.34.23.1840	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Chinatown to North Limits	5	04-Feb-21	10-Feb-21	-432										
STS.28.20.1760	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Portal To Moscone	2	09-Feb-21	10-Feb-21	-437										
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Por	2	09-Nov-20 A	11-Feb-21	-475										

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020		2021		
						Q4	Q1	Q2	Q3	
STS.34.22.2880	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB NB11 - UMS :	2	03-Aug-20 A	15-Feb-21	-474					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB NB11
STS.28.20.1730	STS_Install: Tunnel Electrical - CCTV Cameras - NB Moscone to Union Square	5	09-Feb-21	15-Feb-21	-444					STS_Install: Tunnel Electrical - CCTV Cameras - NB Moscone to Union Square
STS.34.22.2890	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11To NB04 - UMS To	8	11-May-20 A	17-Feb-21	-474					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11To NB04
STS.28.20.1770	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Moscone to Union Square	2	16-Feb-21	17-Feb-21	-440					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Moscone to Union Square
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890	5	12-Feb-21	18-Feb-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box T
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS	1	01-Jun-20 A	19-Feb-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB
STS.34.22.2390	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Union Square to Chinatown	14	02-Feb-21	19-Feb-21	-441					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Union Square to Ch
STS.34.42.2400	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Chinatown to North Limits	2	22-Feb-21	23-Feb-21	-441					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Chinatown to Nort
STS.28.20.1740	STS_Install: Tunnel Electrical - CCTV Cameras - NB Union Square to Chinatown	6	16-Feb-21	23-Feb-21	-444					STS_Install: Tunnel Electrical - CCTV Cameras - NB Union Square to Chinatown
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS Tc	7	04-May-20 A	24-Feb-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To N
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS Sout	1	25-Feb-21	25-Feb-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB1
STS.28.20.1710	STS_Install: Tunnel Electrical - CCTV Cameras NB Chinatown to North Limits	2	24-Feb-21	25-Feb-21	-444					STS_Install: Tunnel Electrical - CCTV Cameras NB Chinatown to North Limits
STS.28.20.1780	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Union Square to Chinatown	2	24-Feb-21	25-Feb-21	-444					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Union Square to Chin
STS.28.20.1750	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Chinatown to North Limits	1	26-Feb-21	26-Feb-21	-444					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Chinatown to North L
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MC	3	08-Dec-20 A	01-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NE
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS Sour	1	02-Mar-21	02-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB N
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MC	1	03-Mar-21	03-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To N
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS Tr	15	08-Jun-20 A	09-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS	2	10-Mar-21	11-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS S	2	05-Oct-20 A	12-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 T
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS South	1	15-Mar-21	15-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To Un	3	14-Dec-20 A	16-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS Nort	1	07-Dec-20 A	17-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - China	2	05-Oct-20 A	18-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFC
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatowr	1	19-Mar-21	19-Mar-21	-475					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB N
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	24-Mar-21	-475					STS_Install: Train Control - Train Control Cable Loop System NB Porta
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	13	22-Mar-21	07-Apr-21	-475					STS_Install: Train Control - Train Control Cable Loop System
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	14	22-Mar-21	08-Apr-21	-475					STS_Install: Train Control - Train Control Cable Loop System
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limits	2	09-Apr-21	12-Apr-21	-475					STS_Install: Train Control - Train Control Cable Loop System
<b>Southbound Tunnel or Trackway</b>		1044	21-Apr-16 A	25-Mar-21	116					
<b>King Substation (Traction Power)</b>		10	11-Jan-21	22-Jan-21	-444					
<b>Power Control Center (Near Bryant/Alameda)</b>		25	25-Jan-21	26-Feb-21	-444					
<b>No 13-Location</b>		881	14-May-14 A	31-Mar-21	112					
<b>Electrical - Transportation</b>		10	28-Dec-20	08-Jan-21	-429					
<b>Track System Work</b>		120	06-Jun-16 A	05-Jan-21	-425					
<b>Startup &amp; Testing</b>		40	13-Apr-21	07-Jun-21	-475					
<b>No 13-Disp</b>		1799	14-May-14 A	07-Jun-21	64					
<b>Unallocated Contingency</b>		317	28-Dec-20	30-Mar-22	-461					



## *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:

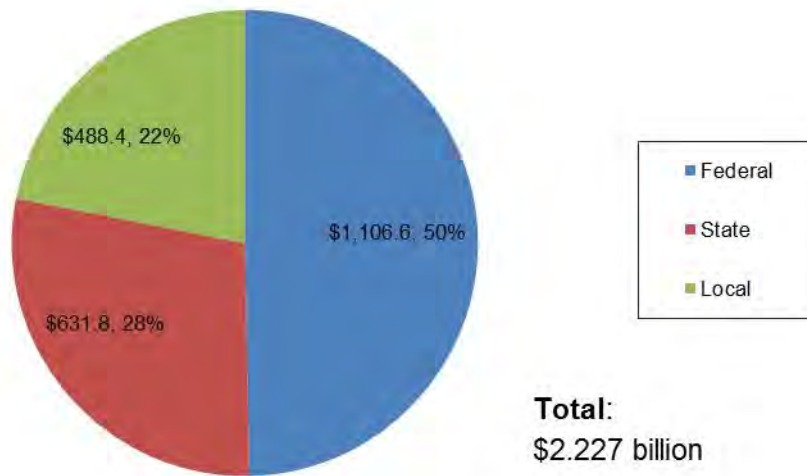
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

## 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.

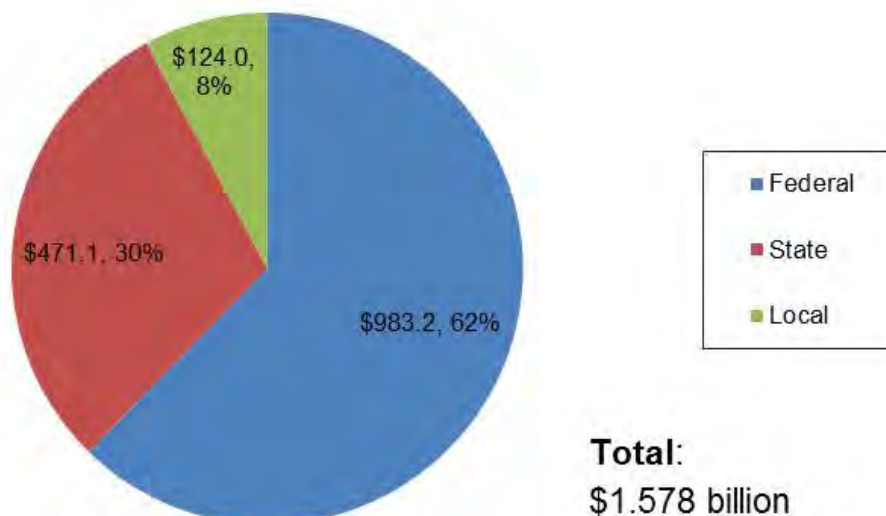
### Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2  
(\$ in millions)



### Central Subway Project Funding

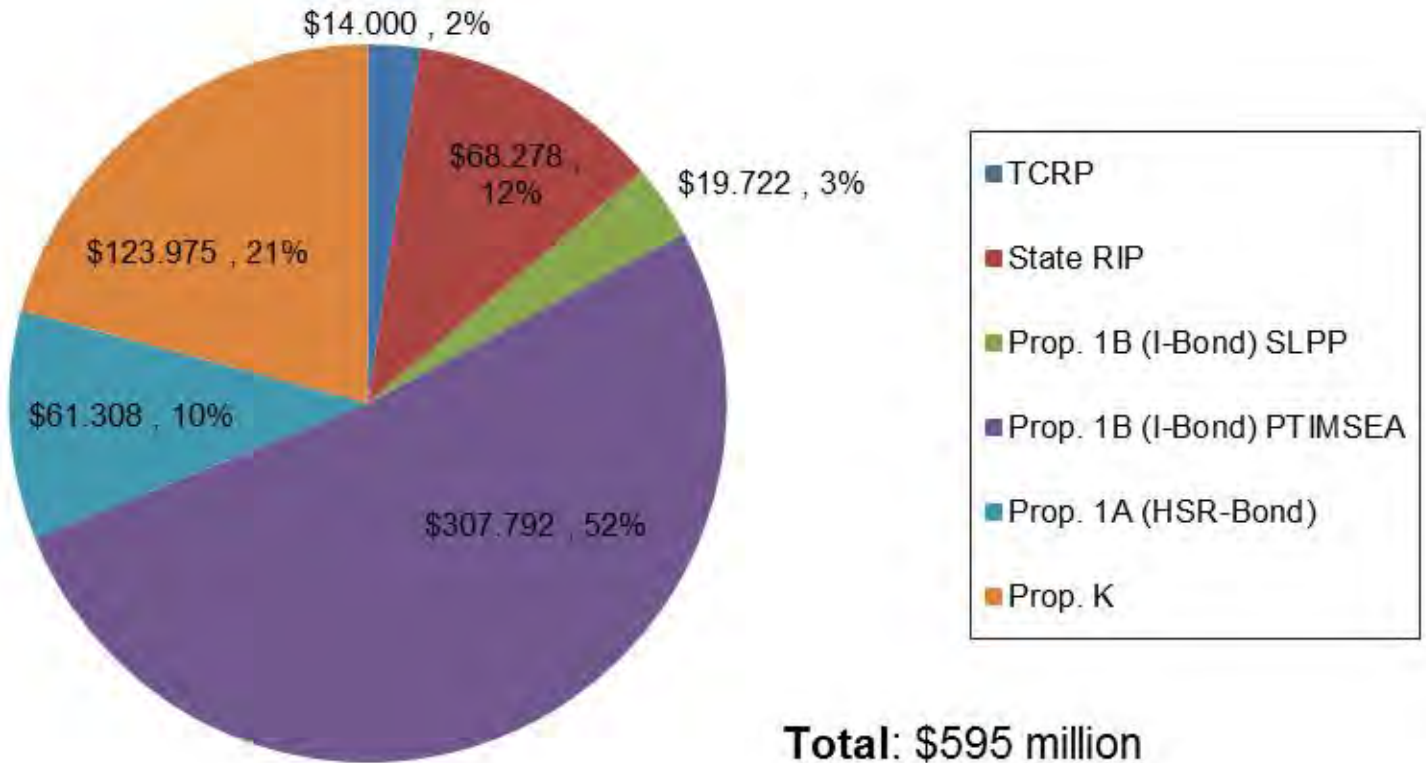
Phase 2  
(\$ in millions)





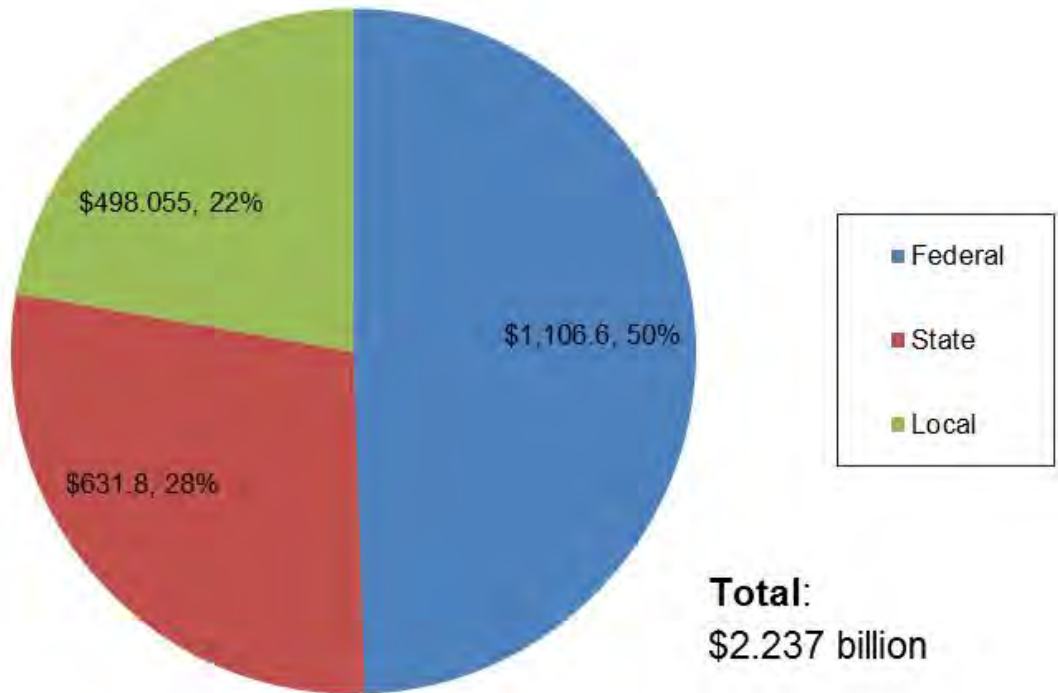
# State and Local Funding

Phase 2  
(\$ in millions)



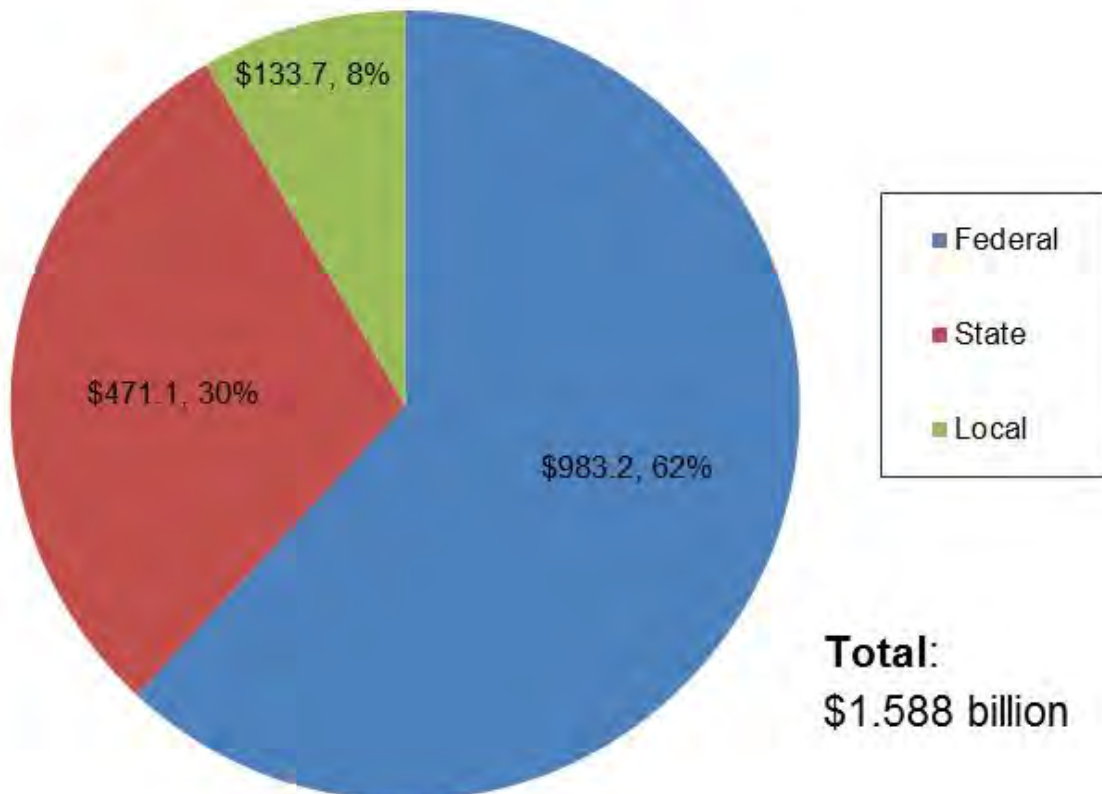
## Third Street Light Rail Transit Project Funding

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

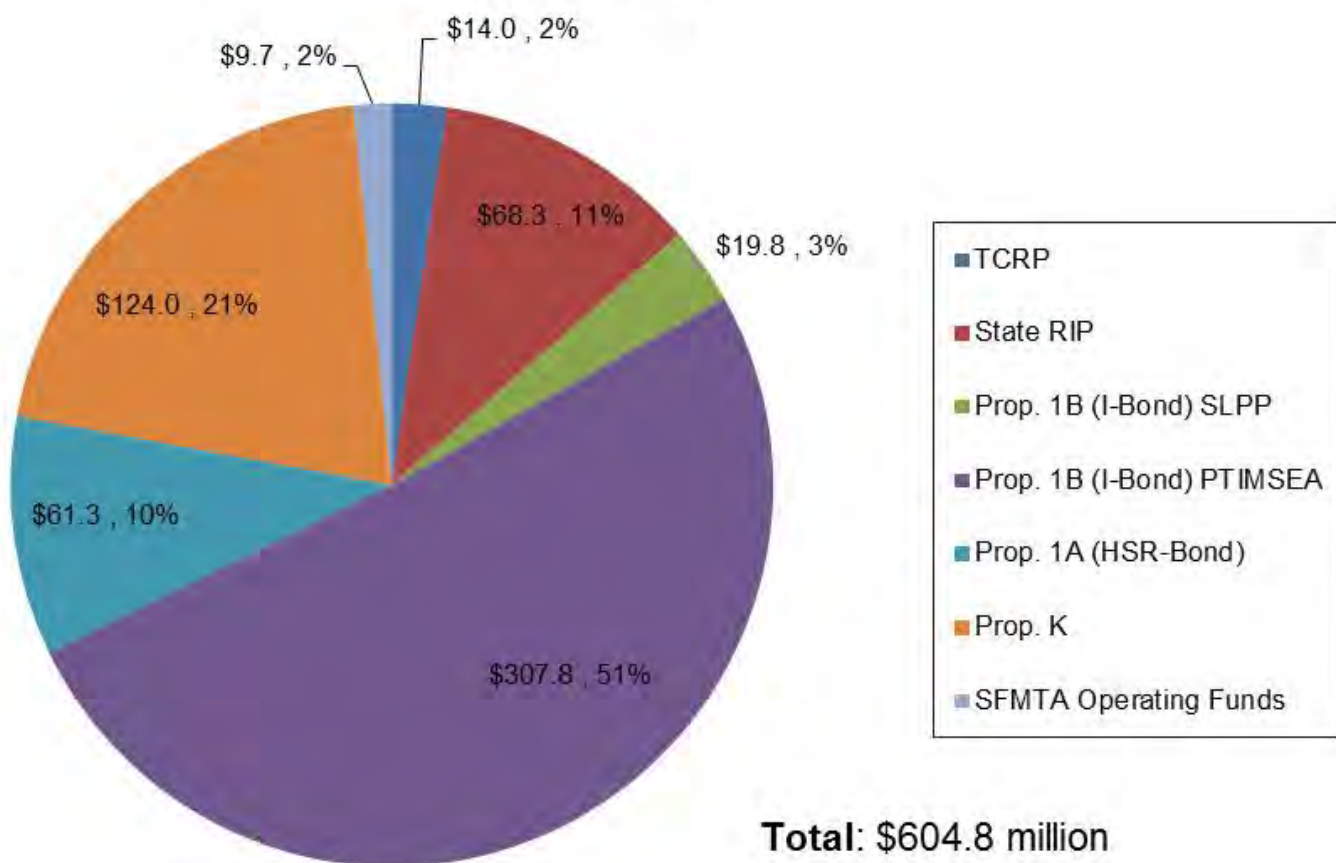


## Central Subway Project Funding

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

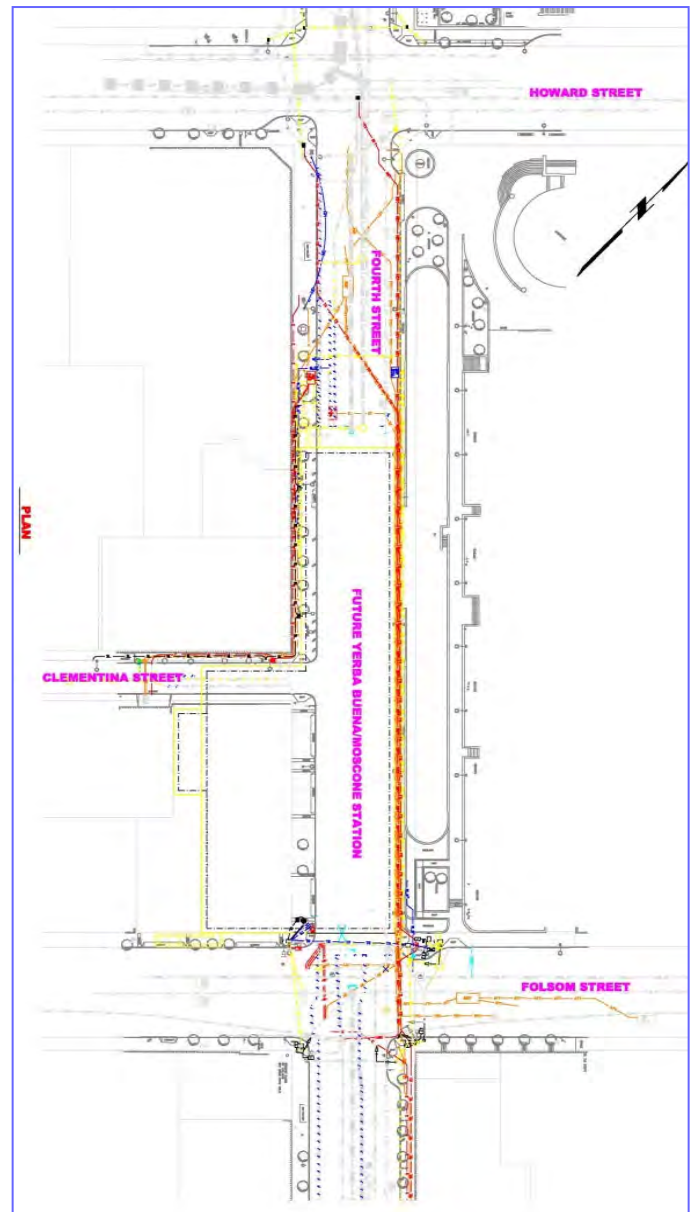
<b>Contract Awarded:</b>	November 17, 2009
<b>Notice to Proceed:</b>	January 4, 2010
<b>Substantial Completion:</b>	June 23, 2011
<b>Contract Award Value:</b>	\$ 9,273,939
<b>Modifications Final :</b>	\$ 2,694,211
<b>Final Contract Value:</b>	\$11,968,150

## 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

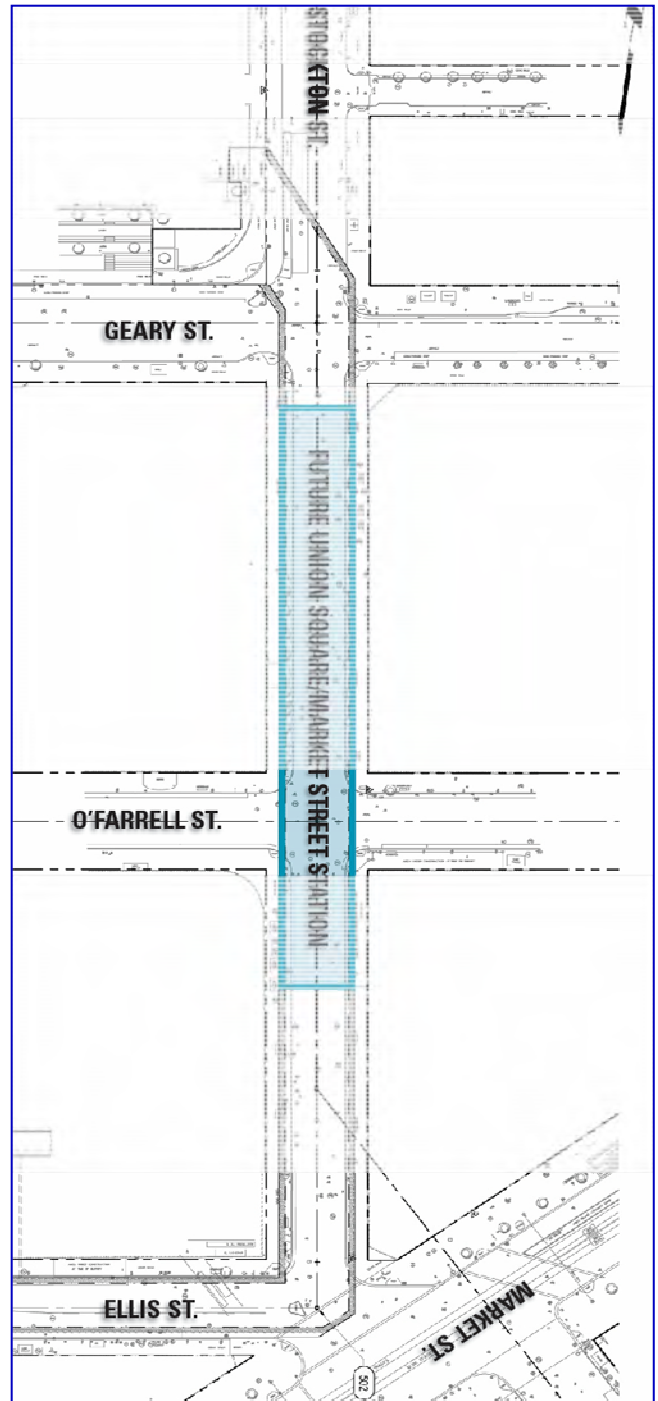
**Contract 1251**

Contractor: Synergy Project Management, Inc.

Budget/Expenditures	
Category	Amount
Original Budget	\$22,199,847
Expenditures Final	\$20,669,081
Utility Reimbursements	(7,413,510)
Final Program Costs	\$13,176,169
<b>Budget Impact (Underrun)</b>	<b>(9,023,678)</b>

## Description

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



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:	\$3,836,531
Final Contract Value:	\$20,669,081

## Status

- Final completion on October 15, 2012
- Completed punch list work
- Project Final Acceptance on November 15, 2013
- Completed final construction contract administrative closeout in June 2017

# 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.

- Contract funded by SFMTA Operating funds
- Work was substantially completed September 24, 2013
- 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
- Completed administrative closeout in November 2018

Budget/Expenditures	
Category	Amount
Current Budget	\$239,973,354
Other Project Budget	\$5,150,000
Other Offset Credits	\$1,312,101
<b>Expenditures Final</b>	<b>\$233,511,253</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 15, 2015</b>
<b>Contract Award Value:</b>	<b>\$233,584,015</b>
<b>Modifications to Date:</b>	<b>\$6,389,339</b>
<b>Final Contract Value:</b>	<b>\$239,973,354</b>





## *Appendix E*

### **SBE PARTICIPATION**

Quarterly Report

Current Report: October 2020 to December 2020

**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, 2020.<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.

**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>			millions		millions		millions	millions		
1	149	CS Partnership	Project Management	\$147.38	30%	\$102.98	32.4%	\$44.21	\$33.39	31.4%
2	156	Hill International	Project Controls Task 1	\$17.11	26%	\$10.12	29.3%	\$4.45	\$2.96	26.0%
3	155-1	PB Telemon	Tunnels Design	\$7.94	30%	\$7.90	30.2%	\$2.38	\$2.39	31.6%
4	155-2	CS Design Group	Stations Design	\$54.78	30%	\$49.83	32.0%	\$16.43	\$15.95	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$18.89	30%	\$18.89	25.8%	\$5.67	\$4.87	30.0%
<b>Subtotal Professional Services</b>				<b>\$246.10</b>		<b>\$189.73</b>		<b>\$73.15</b>	<b>\$59.56</b>	
<b>B Project Construction Contracts</b>			millions		millions		millions	millions		
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	\$20.70	20%	\$20.70	87.4%	\$4.14	\$18.10	94.9%
3	1252	BIH	Tunnels and Portal - in Construction	\$239.97	6%	239.97	5.8%	\$14.40	\$13.88	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	1006.25	20%	\$987.30	18.7%	\$201.25	\$184.22	25.5%
<b>Subtotal Construction Contracts</b>				<b>\$1,279.54</b>		<b>\$1,260.59</b>		<b>\$222.83</b>	<b>\$228.47</b>	
Contract	Contractor	Services/Segment	Base Contract	SFMTA Goal	Expenditures	SBE Actual	= A * B	= C * D	Bid Goal	
			A	B	C	D	E	F	G	

**SBE Summary Table Notes and Sources:**

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

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

- b) Column C shows each contract’s current amount expended to date (estimated) including accruals. Column D is the actual SBE percent level of each contract based on payments to date. Column E is the expected SBE dollar amount when the contract amount is completed and the SFMTA SBE goal achieved using this calculation: Columns A \* B = Column E, the SBE Expected \$ Amount. Column F is the actual SBE dollar amount out of the total contract expenditure to date:

<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”).

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

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

- 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 construction 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 29.3% 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 #87 December 2020, 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: 12/31/2020

Contract:	<b>Project Management and Construction management</b>	
Contract No.	<b>CS-149 Central Subway Partnership*</b>	
Status:	On-going	
	Base Contract Value	\$97,715,988
	Approved Change Orders	-0-
	Current Contract Value	\$147,375,171
	Expended to Date (est.)	102,982,284
	% Expended	69.9%
	SBE SFMTA Goal	30.0%
	SBE Participation	32.4%

Contract:	<b>Project Controls Cost and Schedule Support</b>	
Contract No.	<b>CS 156 Hill International Task 1*</b>	
Status:	On-going	
	Base Contract Value	\$17,112,873
	Approved Change Orders	-0-
	Current Contract Value	\$17,112,873
	Expended to Date (est.)	\$10,115,598
	% Expended	59.1%
	SBE SFMTA Goal	26.0%
	SBE Participation	29.3%

Contract:	<b>Design Package 1 for CNs 1250, 1251 and 1252 Tunnels</b>	
Contract No.	<b>CS-155-1 PB / Telemon*</b>	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$5,795,000
	Approved Change Orders (7)	\$2,145,159
	Current Contract Value	\$7,940,159
	Expended to Date (est.)	\$7,904,713
	% Expended	99.6%
	SBE SFMTA Goal	30.0%
	SBE Participation	30.2%

Contract:	<b>Design Package 2 for 1253 UMS, 1254 CTS, 1255 YBM</b>	
Contract No.	<b>CS-155-2 Central Subway</b>	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$39,949,948
	Approved Change Orders (6)	\$14,829,744
	Current Contract Value	\$54,779,692
	Expended to Date (est.)	49,832,278.08
	% Expended	91.0%
	SBE SFMTA Goal	30.0%
	SBE Participation	32.0%

Contract:	<b>DP 3 Systems, Track work,</b>	
Contract No.	<b>CS-155-3 HNTB-B&amp;C*</b>	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	18,549,417.00
	Approved Change Orders (9)	\$2,735,209
	Current Contract Value	\$21,284,626
	Expended to Date (est.)	18,891,452
	% Expended	88.8%
	SBE SFMTA Goal	30.0%
	SBE Participation	25.8%

\* denotes accrual



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

Data as of:		12/31/2020
Contract:	<b>Synergy Inc Utility Relocation 1 YBM &amp; Launch Box</b>	
Contract No.	<b>1250</b>	
Status:	<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%
Contract:	<b>Synergy Inc Utility Relocation 2 UMS</b>	
Contract No.	<b>1251</b>	
Status:	<b>Contract is completed and closed out</b>	
	Base Contract Value	\$16,832,550
	Approved Change Orders	3,836,531
	Final Contract Value	\$20,699,081
	% Expended	100%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	87.4%
Contract:	<b>Pagoda Palace Demolition / MH Construction</b>	
Contract No.	<b>1277</b>	
Status:	<b>Contract is completed and closed out</b>	
	Base Contract Value	\$498,995
	Approved Change Orders	\$149,981
	Final Contract Value	\$648,976
	% Expended	100%
	SBE SFMTA Goal	100%
	SBE Participation To Date	100%
Contract:	<b>Tunnels Barnard/Impregilo/Haley</b>	
Contract No.	<b>1252</b>	
Status:	<b>Contract is completed and closed out</b>	
	Base Contract Value	\$233,584,015
	Approved Change Orders	\$6,389,339
	Current Contract Value	\$239,973,354
	Expended to Date (est.)	\$239,973,354
	% Expended	100%
	SBE SFMTA Goal	6.0%
	SBE Participation To Date	5.8%
Contract:	<b>Stations and Systems / Tutor Perini</b>	
Contract No.	<b>1300</b>	
Status:	On-going	
	Base Contract Value	\$839,676,400
	Approved Change Orders	\$166,575,357
	Current Contract Value	\$1,006,251,757
	Expended to Date (est.)	987,295,894
	% Expended	98.1%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	18.7%

Photos on the next page:

(top to bottom) December 2020: At Chinatown Station, stairs to Platform level progress. Ticketing near Geary Street at Union Square Market Street Station. At Yerba Buena/Moscone Station, Plaza progress near entrance gate. Freshly painted platform ramp at Surface, Track, and Systems station.

# central subway

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