

## Transmittal

CS Transmittal No. 2610

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<b>Date:</b> May 27, 2021	<b>Task No./Title:</b> Cost/Schedule Management	<b>Project Phase:</b> Construction
	<b>Subject:</b> Monthly Progress Report April 2021	

<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 (March 2021)	1	5/27/2021

*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

## We're Getting Close



## Progress Report

April 2021



**SFMTA**

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**Cover photo:** View of the crossover cavern at CTS

**Above photo:** Part of the plaza at CTS

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/>



Kiosk in YBM station

## Executive Summary

**Coronavirus Pandemic (COVID 19)** - 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. With conditions in the Bay Area improving, the City has adjusted various restrictions which limit indoor and outdoor activities and placed the City and County in the "Yellow Tier" which is less restrictive. The City's Health Office anticipates further adjustment to these restrictions as conditions for COVID-19 improves in the Bay Area and the State of California. The City has adjusted its "Shelter-In-Place" guidelines and is allowing some non-essential staff to return to work. Construction of the Central Subway project continues to progress, and Construction Management team continues to monitor impact of the COVID restrictions on project schedule. No cases were reported in April. The Contractor continues to follow 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 continues to progress towards substantial completion and startup and testing. 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 been adjusted, 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. 33)

**Chinatown Station** - Completed installing electrical communication conduits at Station Agent Booth at Concourse level. Completed installing Elevators 1 and 2. Completed installing overhead signage along North/South Cavern Platform. Continued street work (minor), ongoing monitoring and surveying.

**Union Square/Market Street Station** - Completed installation of lights in Elevators 1, 2 and 3. Completed installation of FHC, stand pipes on exposed piles and adjustment/programming of art lights on Concourse level. Completed installation of art, framing of kiosk and FHC, bench, traction conduits, traction pull boxes, OCS brackets and signage on Platform level. Completed working on Station Agent Booth.

**Yerba Buena/Moscone Station** - Completed FA system with DBI. Completed outlet test for kiosks at Concourse and Platform levels. Completed low voltage transformers field quality control test. Completed CCTV testing (except CCTV at Elevators). Completed 95% metal cladding installation at Escalator 1 & 2. Installed door sensor plates at Mezzanine level.

**Surface, Track and Systems** - Completed FED installation near 4th St. portal (except telephone). Continued traction power conduit and other electrical conduit installation inside tunnel. Continued installation of ATCS and radio system testing. Started 4th/King OCS installation.

Total net incurred costs for the project are \$1,828.79 million, a \$10.46 million increase over last month. The total cost to date has exceeded the total project budget of \$1.877 billion. The project continues to review the overall cost. The current Estimate at Completion (EAC) is projected to be \$1.891B or \$313M 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 34.

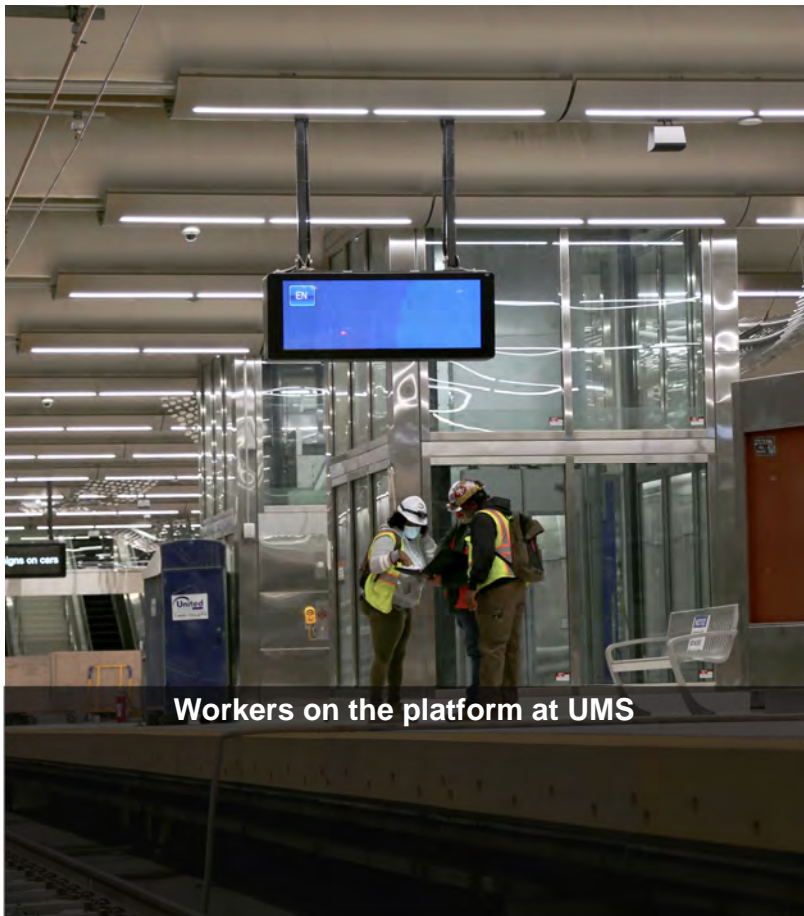


# Key Milestones



View of YBM station at the Surface

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)	February 12, 2014 (A)
Substantial Completion	Spring 2021



Workers on the platform at UMS



View of surface level and plaza at CTS

# Costs and Schedule

## Costs (See Appendix A for Details)

The revised Cost Estimate (CCE) for the Central Subway Project is \$1.829 billion in year of expenditure dollars (\$YOE). The project continues to work with our funding partners to address the current funding issues. Currently, the project estimates the Estimate at Completion (EAC) to be \$1.891B or \$313M above the original budget of \$1.578B. These revised estimates have been shared with our board and funding partners. Based on the additional funding requirement, the project has received additional \$299M from capital contingency funds. The project will continue to work with Finance and Grants to secure the remaining funds which will come from redirecting flexible funds from other funded capital projects. EAC has been incorporated with claim settlements, contract modifications and delayed cost due to the current pandemic. With the revised EAC, the team continues to 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. The team continues to work with SFMTA Finance and Grants to book the remaining funds as they are identified and become available to the program.

Total net incurred costs for the project are \$1,828.79 million, a \$10.46 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,833.02 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$4.76 million) and estimates of outstanding pay requests credits of (\$21.47 million). The revised total project budget is \$1.877 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 \$71,600,000 appropriated in April 2021 . 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 April 2021 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA March Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

### Preliminary April Earned Value

Overall Budgeted Cost:	\$1,877,153,762
Planned Value:	\$1,593,491,019
Earned Value:	\$1,492,163,448
Actual Cost:	\$1,828,785,137
Schedule Performance Index (SPI):	0.94
Cost Performance Index (CPI):	0.82
Percent Complete:	93.6%

\*April 2021 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.



# Schedule Highlights

The Master Project Schedule (MPS) below includes progress through April 2021. The April 2021 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 April 2021 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 approval. The project continues to evaluate this date with potential impact from COVID restrictions. The schedule team is assessing the risk with these issues and identifying potential mitigation to reduce the risk to the overall schedule.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources. 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 April 2021 schedule is used within the September Report. The SFMTA Contract 1300 April 2021 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:**

- Completed installing electrical and communication conduits at Station Agent Booth at Concourse level
- Continued terminating wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing plumbing at Plaza level
- Completed installing Elevators 1 and 2
- Continued installing Elevators 3 and 4
- Continued installing GFRC panels at Plaza level
- Continued testing board and panels, transformers, and lighting
- Continued installing GFRC panels along the Northern exterior wall
- Completed installing overhead signage along North/South Cavern Platform
- Continued testing Traction Power and Train Control components
- Continued Power and Lighting testing.
- Continued Fire Alarm /PA / Security System testing.
- Begin testing enclosed switches
- Begin testing circuit breakers
- Begin testing for FSS SCADA soft point
- 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:

- Began installation of drywall ESC, CMU wall and escalator side walls/cladding at north & south ends Platform level
- Began cleaning and adjustment of escalators
- Began Installation of anti-graffiti film
- Continued installation of cabinets in the break room
- Continued painting traction power conduits at Platform level
- Continued painting conduits on north & south ends of the Platform
- Completed installation of lights in Elevators 1, 2 and 3
- Completed installation of FHC, stand pipes on exposed piles and adjustment/programming of art lights on Concourse level
- Completed installation of art, framing of kiosk and FHC, bench, traction conduits, traction pull boxes, OCS brackets and signage on Platform level
- Completed working on Station Agent Booth

## Schedule Highlights - Continued

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

- Completed FA system with DBI
- Completed outlet test for kiosks at Concourse and Platform levels
- Completed low voltage transformers field quality control test
- Completed 60% of kiosk installation at Concourse
- Completed 75% kiosks installation at Platform level
- Completed CCTV testing (except CCTV at Elevators)
- Completed 95% metal cladding installation at Escalator 1 and 2
- Completed 90% metal cladding for Escalator 3
- Installed door sensor plates at Mezzanine level

### **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 support, riser, and wire installation throughout the tunnel and portal
- Continued fiber system installation and terminations in comm rooms (SFDT)
- Continued ATCS and radio system testing
- Completed FDC installation near 4<sup>th</sup> St. portal (except telephone)
- Started 4<sup>th</sup>/King OCS installation







*View of the ticketing hall at CTS*

## Contracts & Construction

### Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$1,143.30 million
- Contract Status: 95.7% 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

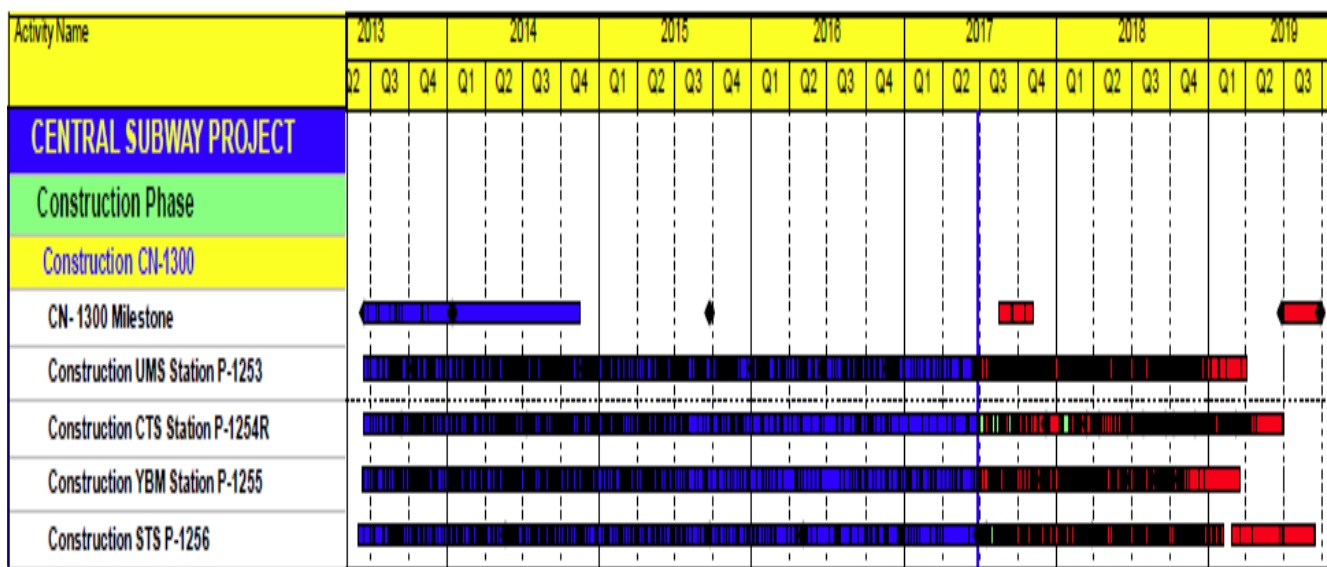
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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 (\$):	\$303,622,187
Modifications to Date (Days):	1,052
Current Contract Value:	\$1,143,298,587

Budget/Expenditures▲	
Current Budget	\$1,130,545,999
Other Project Offset Credits	\$12,483,280
Expenditures to Date	\$1,114,236,997

## 1300 Summary Schedule





# Chinatown Station

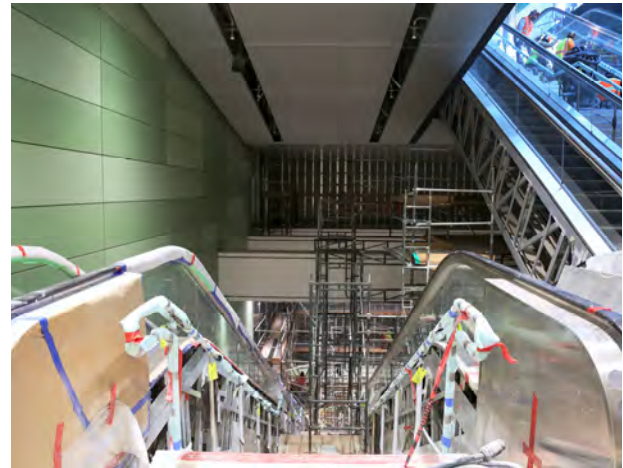
## Contract 1300 - Work Package 1254R

### 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

- Completed installing electrical and communication conduits at Station Agent Booth at Concourse level
- Continued terminating wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing plumbing at Plaza level
- Completed installing Elevators 1 and 2
- Continued installing Elevators 3 and 4
- Continued installing GFRC panels at Plaza level
- Continued testing board and panels, transformers, and lighting
- Continued installing GFRC panels along the Northern exterior wall
- Completed installing overhead signage along North/South Cavern Platform
- Continued testing Traction Power and Train Control components
- Continued Power and Lighting testing.
- Continued Fire Alarm /PA / Security System testing.
- Begin testing enclosed switches
- Begin testing circuit breakers
- Begin testing for FSS SCADA soft point
- Continued street work (minor), ongoing



monitoring and surveying

### Work Expected Next Month

- Complete terminating wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Complete installing plumbing at Plaza level
- Complete installing Elevators 3 and 4
- Complete installing GFRC panels at Plaza level
- Complete traction power conduit installation
- Begin installing Train Platform Kiosks
- Begin installing Kiosks at Concourse Ticketing Hall
- Complete testing board and panels, transformers, and lighting
- Complete testing Traction Power and Train Control components
- Complete Power and Lighting testing
- Continue Fire Alarm /PA / Security System testing.
- Complete construction of PCC 50 Chinatown Plaza
- Continue testing electrical and mechanical components testing

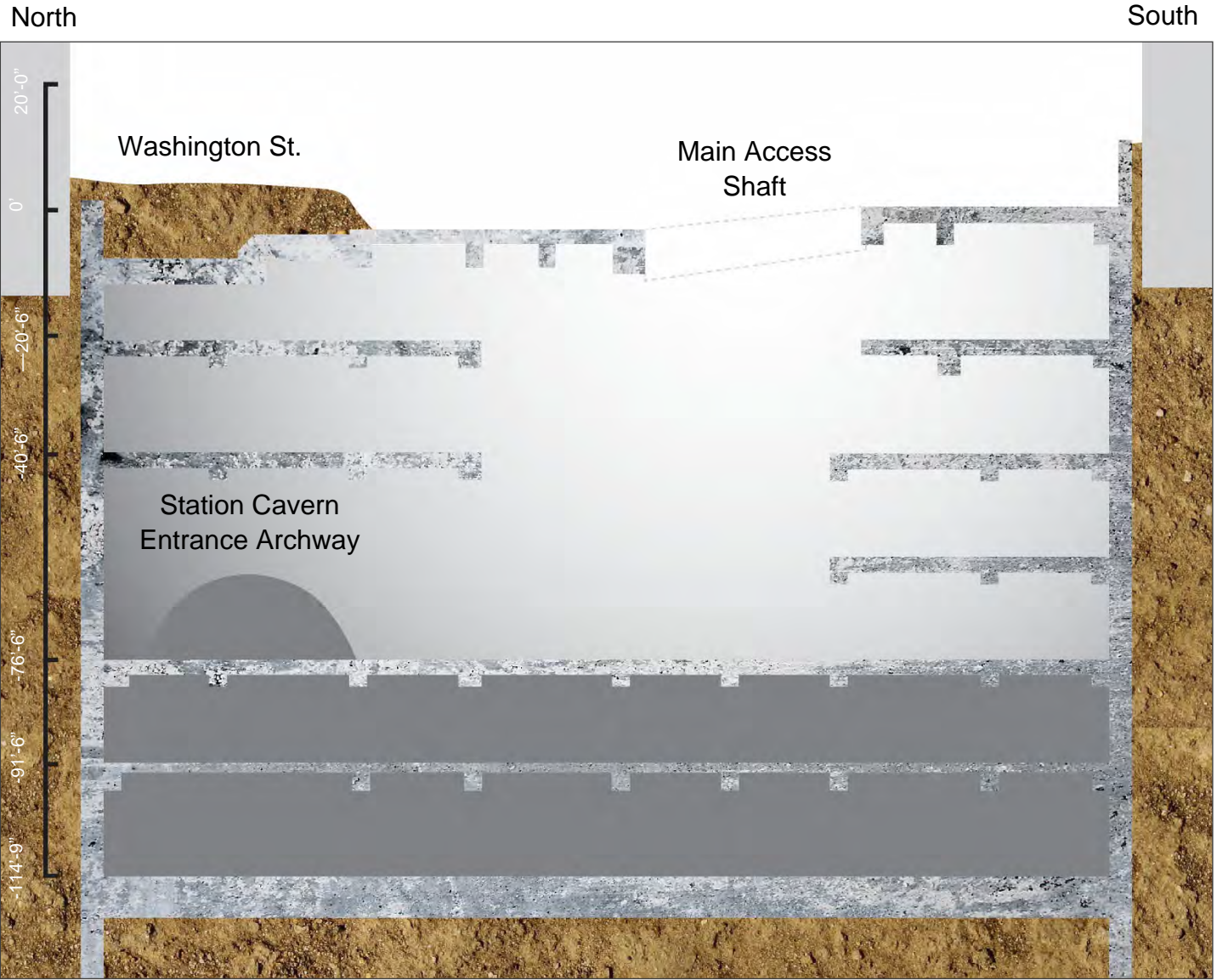
# Chinatown Station

- Begin commissioning electrical and mechanical systems
- Begin testing deluge piping system
- Continue testing enclosed switches
- Continue testing circuit breakers
- Continue testing for FSS SCADA soft point
- Continue street work (minor), ongoing monitoring and surveying

## Three Month Look Ahead

- Complete component testing for enclosed switches
- Complete component testing for circuit breakers
- Complete component testing for panel boards
- Complete reactivation of existing AWSS pipeline along Stockton Street
- Abandon dewatering wells on Stockton Street
- Complete commission testing for primary switch gear SGTV
- Complete commission testing for FSS SCADA soft point
- Complete commission testing for traction power gear
- Complete commission testing for EV Fan Reversal
- Complete Systems Start up and Acceptance Testing

### Station Construction Progress Section



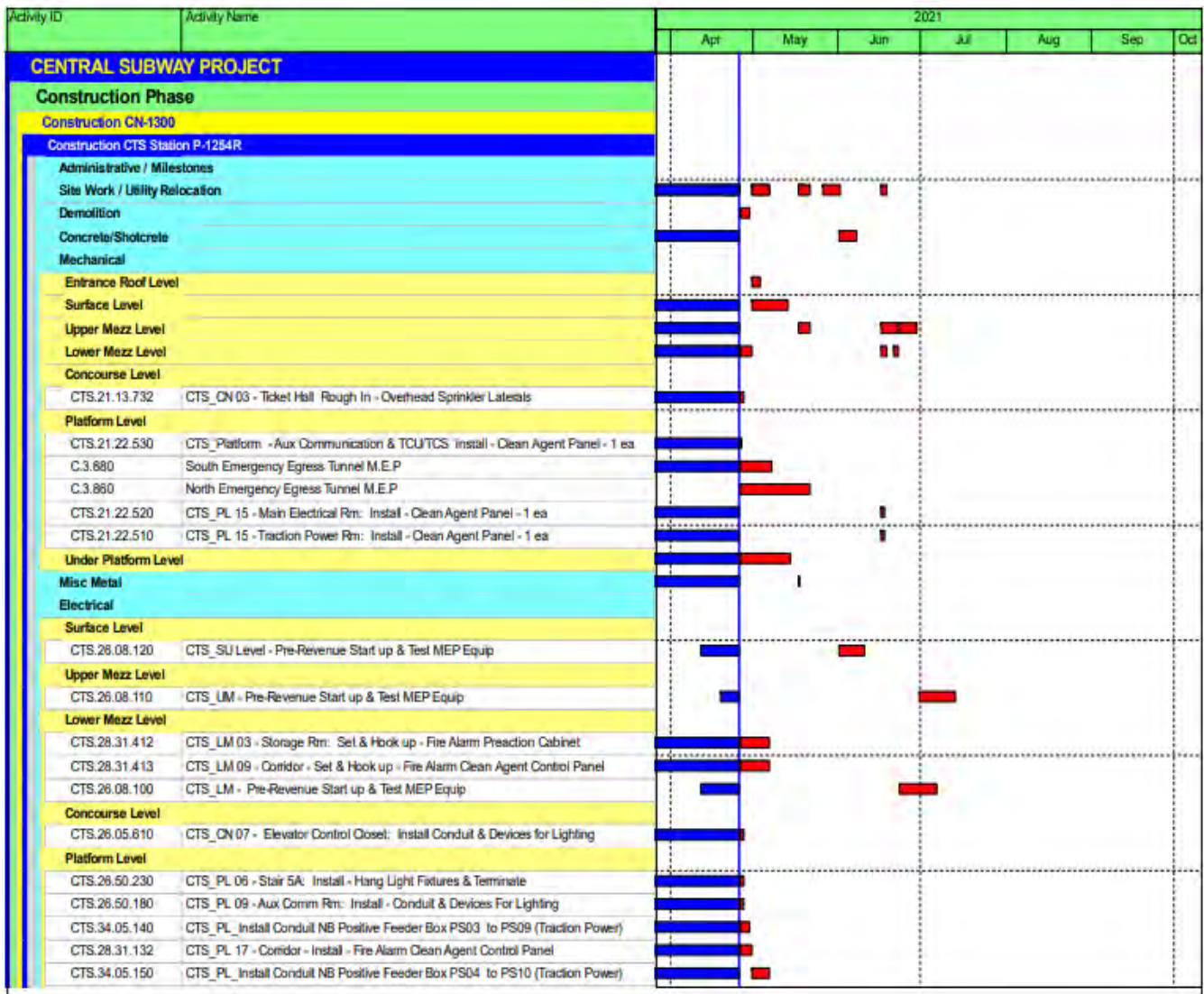


# Chinatown Station Construction Status - Continued

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 (\$):	\$156,181,923
Modifications to Date (Days):	1,052
Current Contract Value:	\$403,749,733

Budget/Expenditures ▾	
Current Budget	\$392,247,198
Other Project Offset Credits	\$9,435,183
Expenditures to Date	\$386,758,958

## 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:

- Began installation of drywall ESC, CMU wall and escalator side walls/cladding at north & south ends Platform level
- Began cleaning and adjustment of escalators
- Began Installation of anti-graffiti film
- Continued installation of cabinets in the break room
- Continued painting traction power conduits at Platform level
- Continued painting conduits on north & south ends of the Platform
- Completed installation of lights in Elevators 1, 2 and 3
- Completed installation of FHC, stand pipes on exposed piles and adjustment/ programming of art lights on Concourse level
- Completed installation of art, framing of kiosk and FHC, bench, traction conduits, traction pull boxes, OCS brackets and signage on Platform level
- Completed working on Station Agent Booth

## Work Expected Next Month

Continued construction, installation and testing of the following items:

- Continue installation of FHCs
- Continue installation of traction power conduits and traction pull boxes
- Continue installation of side walls of escalators
- Continue painting of conduit on the platform level
- Complete frame work for glass at escalators
- Complete installation of cabinets in the break room
- Continue application of Anti-graffiti Film
- Complete painting of walls in the train control HVAC Room

## Three Month Look Ahead

Completion of the following:

- Stairs, elevators and escalators
- Emergency lighting at tunnel tie-in on

# Union Square/Market Street Station

## *Contract 1300 Work Package 1253*

Platform level

- CCTV/Communication at tunnel tie-in on Platform level
- Application of anti-graffiti

Continued construction / begin installation and testing of the following:

- 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
- Complete testing of deluge system
- IR testing of low voltage transformer



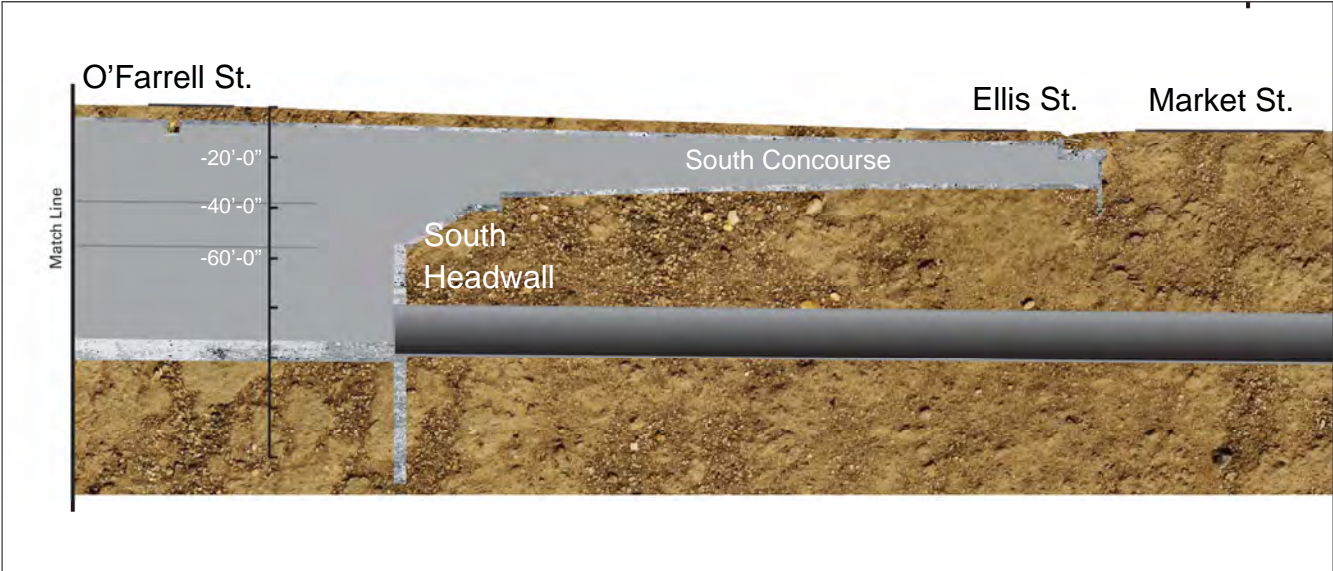
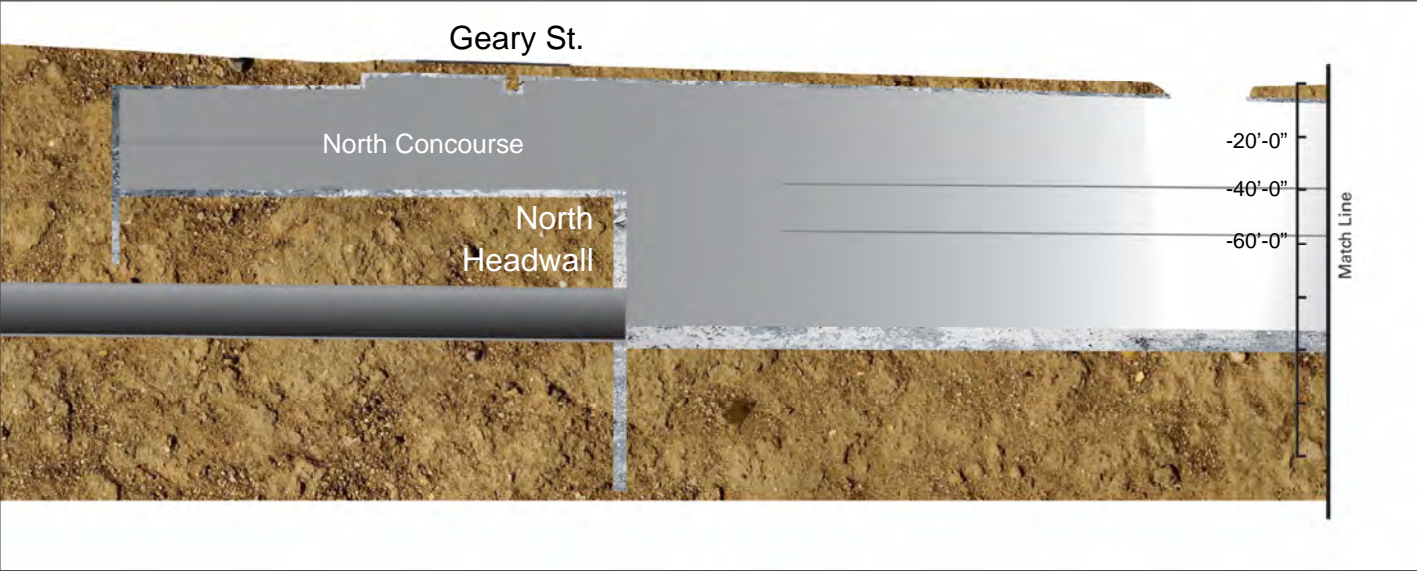
View from the Powell street BART entrance



### Station Excavation and Construction Progress Section

North

South



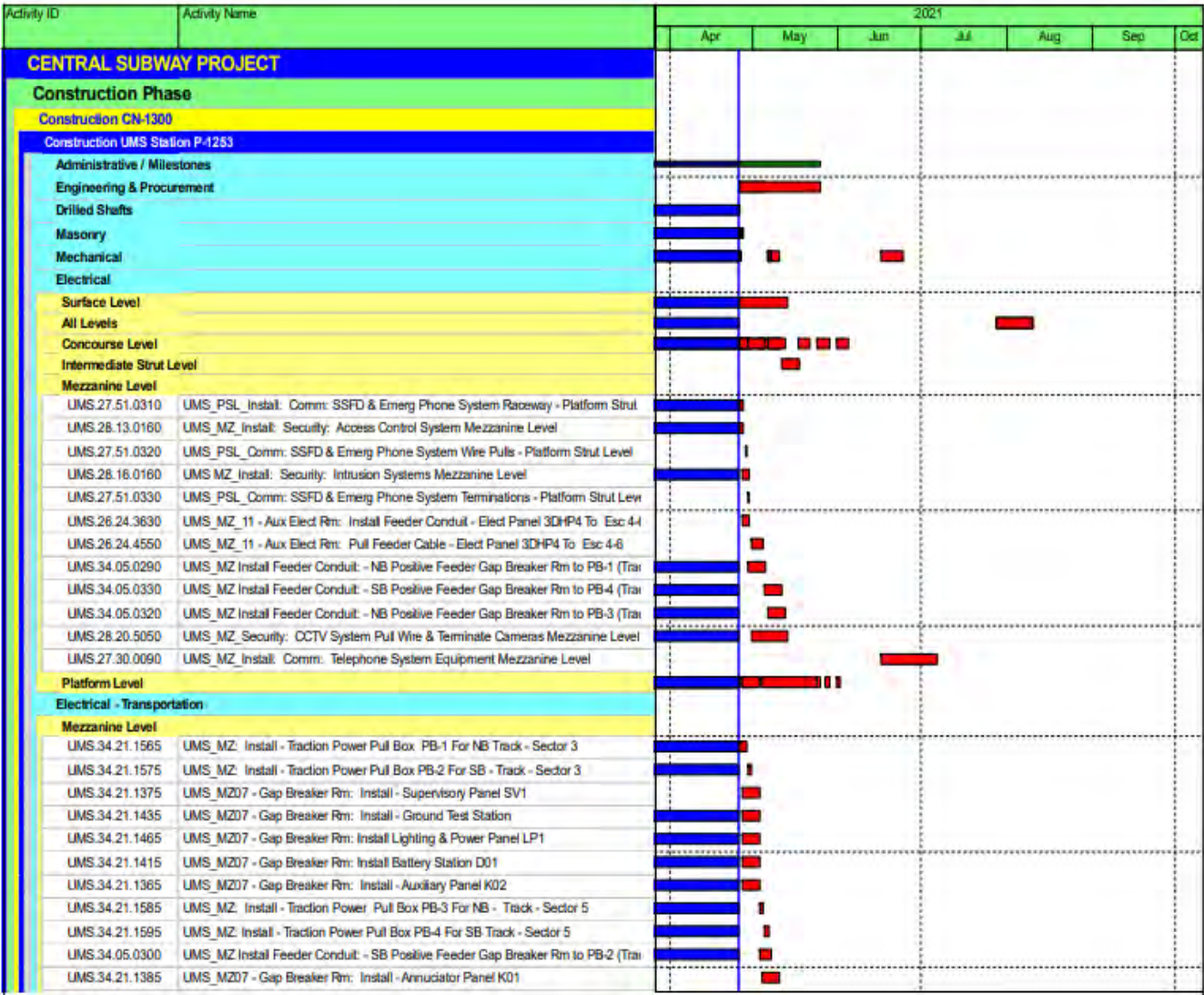


# Union Square Market Street Station Construction - Continued

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	\$311,590,748

## 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

- Completed FA system with DBI
- Completed outlet test for kiosks at Concourse and Platform levels
- Completed low voltage transformers field quality control test
- Completed 60% of kiosk installation at Concourse
- Completed 75% kiosks installation at Platform level
- Completed CCTV testing (except CCTV at Elevators)
- Completed 95% metal cladding installation at Escalator 1 and 2
- Completed 90% metal cladding for Escalator 3
- Installed door sensor plates at Mezzanine level

### Work Expected Next Month

- Complete installing handrails at ingress/ egress Stair 8 & 9
- Complete interior finishes on Concourse level within Station Box
- Complete interior finishes on Mezzanine
- Complete installation of sculpture at Surface level
- Complete alignment and bolt down traction power gear and install bus duct at TP room
- Complete installation of Platform and Concourse kiosks



- Complete Station Agent Booth
- Complete traction power gear testing
- Complete traction power SCADA testing
- Complete SAB panel signoff
- Complete installing track lights at SAB
- Complete CCTV testing for elevators
- Deluge Spray Pattern demonstration with SFFD
- Heat Recovery Coils and Air Balance
- Complete metal cladding installation at Escalator 1 and 2
- Complete metal cladding installation at Escalator 3

### Three Month Look Ahead

- Complete installing handrails at ingress/egress Stair 8 & 9
- Complete interior finishes on Concourse level within Station Box
- Complete interior finishes on Mezzanine

# Yerba Buena/Moscone Station

## Contract 1300 - Work Package 1255

- Complete installation of sculpture at Surface level
- Complete alignment and bolt down traction power gear and install bus duct at TP room
- Complete installation of Platform and Concourse kiosks
- Complete Station Agent Booth
- Complete traction power gear testing
- Complete traction power SCADA testing
- Complete SAB panel signoff
- Complete installing track lights at SAB
- Complete CCTV testing for elevators
- Deluge spray pattern demonstration with SFFD
- Heat recovery coils and air balance
- Complete metal cladding installation at Escalator 1 and 2
- Complete metal cladding installation at Escalator 3



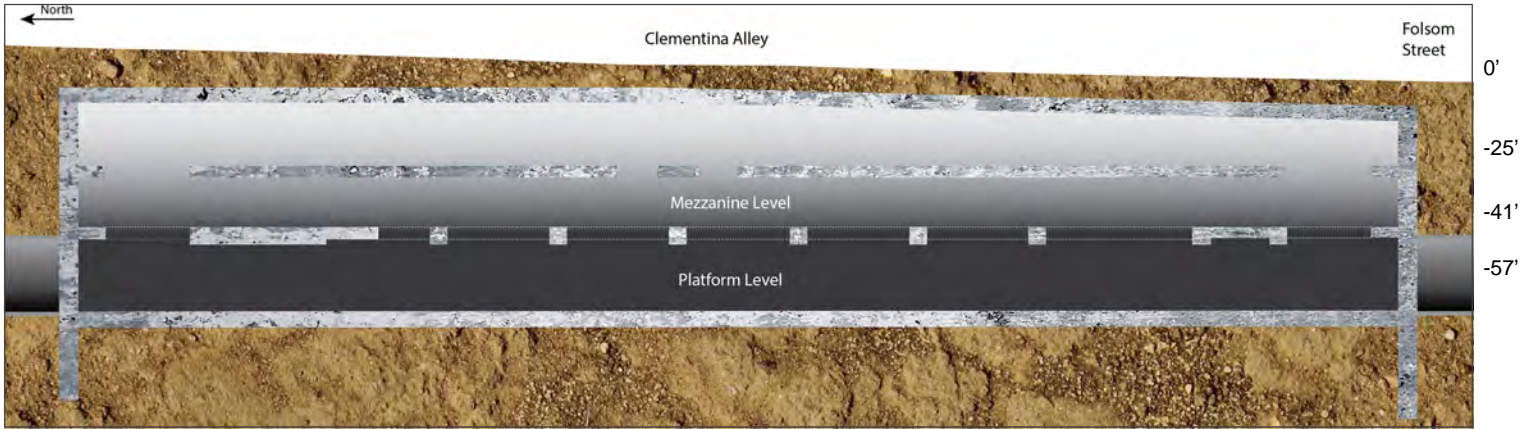
Lobby hall at YBM



### Station Excavation and Construction Progress Section

North

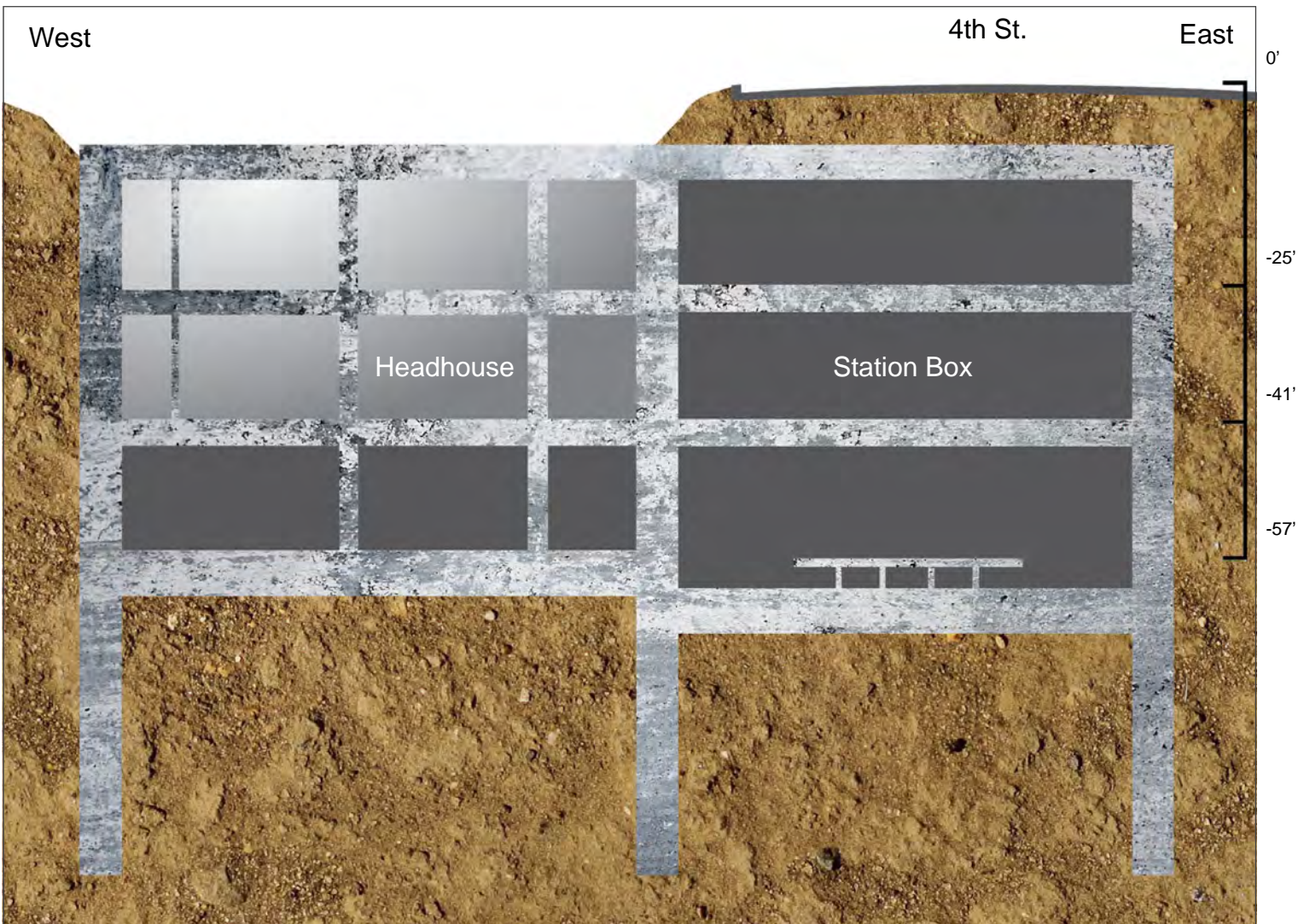
South



West

4th St.

East



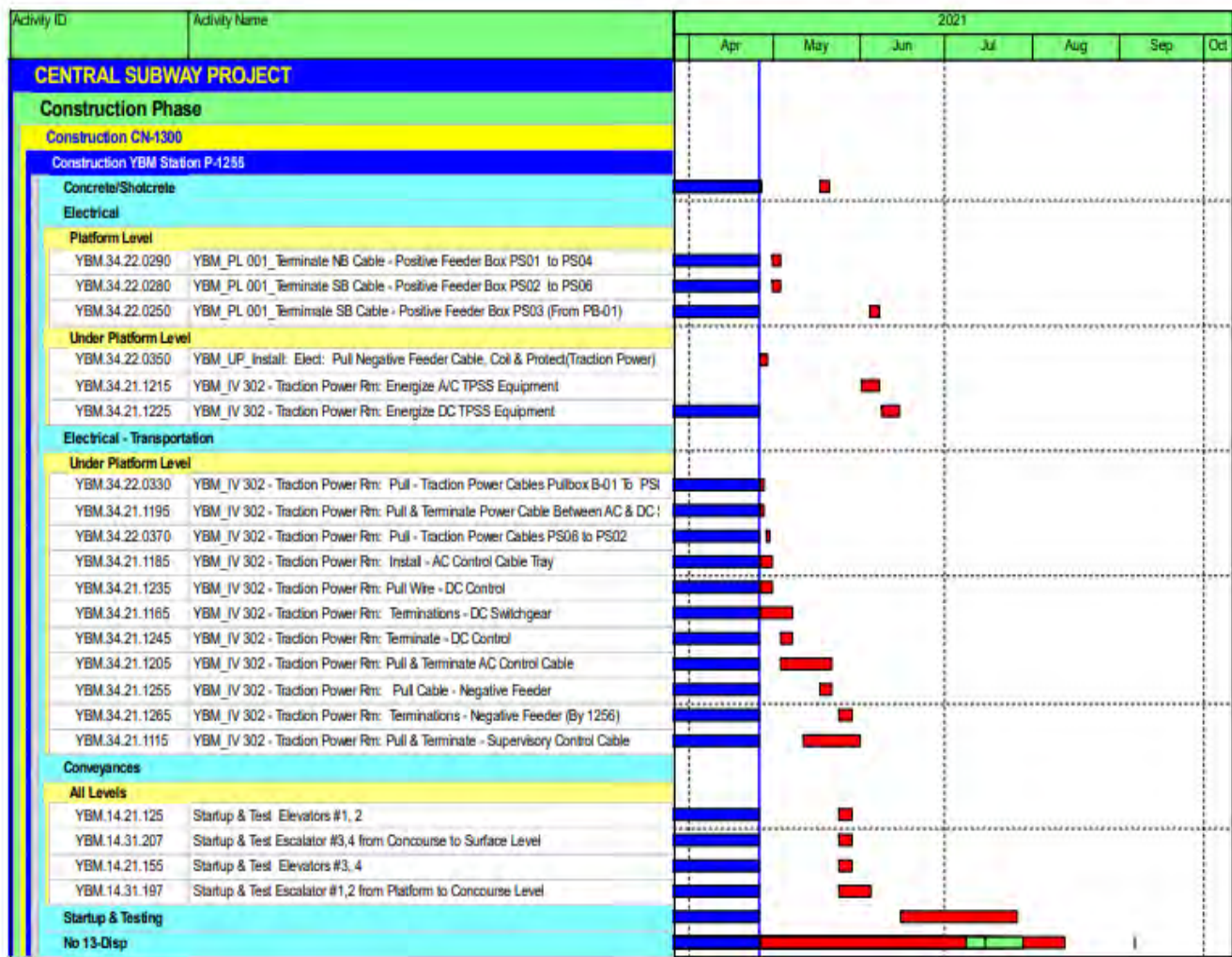


# Yerba Buena Moscone Station Construction - Continued

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	\$160,273,560

## 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 support, riser, and wire installation throughout the tunnel
- Continued installation of ATCS and radio system testing
- Continued fiber system installation and terminations in comm rooms (SFDT)
- Completed FDC installation near 4<sup>th</sup> St. portal
- Started 4th/King OCS 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 OCS support, riser, and wire installation
- Continue fiber system installation and terminations in comm rooms (SFDT)
- Continue ATCS and radio system testing



- Continue 4th/King OCS installation

### Three Month Look Ahead

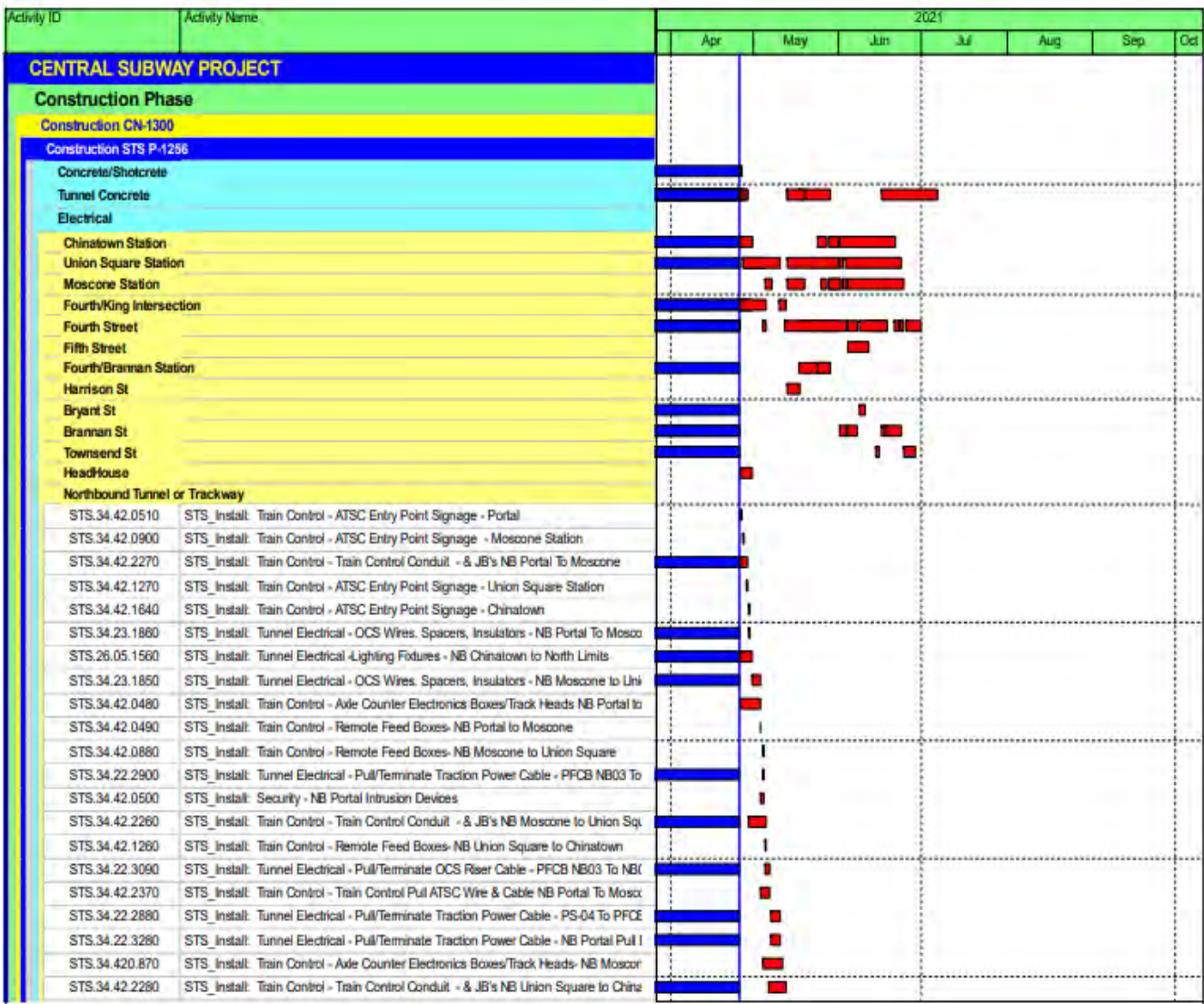
- Complete OCS/street light pole installation
- Continue OCS support/wire installation in tunnel and on 4<sup>th</sup> Street
- Continue 4<sup>th</sup>/Brannan platform construction
- Continue surface signaling, traffic signal and street lighting work on 4<sup>th</sup> St.
- Continue electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting and tunnel electrical power
- Continue OCS support, riser, and wire 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 and terminations in comm rooms (SFDT)
- Continue ATCS and radio system testing

# 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 (\$):	\$121,805,969
Modifications to Date (Days):	1,052
Current Contract Value:	\$261,794,969

Budget/Expenditures	
Current Budget	\$242,642,502
Other Project Offset Credits	\$2,632,766
Expenditures to Date	\$255,613,731

## Systems, Track and Surface Station Three Month Schedule



# Program Components

## Community Outreach

### **Outreach public information, events and presentations for April 2021 include:**

- Conducted Chinatown Merchants Meeting (virtual)
- 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

**No media coverage in April**



## 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.

- 590 CNCRS are currently posted to the CNCR Log
- 50 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

A Risk Mitigation Management Meeting did not take place in April, however, the members will reconvene in May 2021 to review the top risk items in accordance with the risk summary sheet, which have 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-six (36) 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) and the Estimate at Completion (EAC) based on the analysis of the current risk, schedule, and cost. The program notified FTA with revised FFGA and schedule and EAC. 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
265	COVID-19 directly impacts progress of the work resulting in <u>increase</u> costs and schedule delays.	14
255	Water leaks at YBM station, including water in conduits	10
266	Outstanding submittals and resubmissions related to safety and security certification requirement not being addressed.	9
251	Physical activities missing (not defined) in the schedule / identify activities of undefined scope	8
205	Prolong period of CMod's creates additional cost/causes bad blood between Resident Engineer and Contractor	8
253	Do not have adequate (subcontractor) resources defined to perform the work to meet schedule performance	6
238	Quality Program is ineffective in processing the nonconformance items causing schedule impacts	6
229	CN1300 System Acceptance Testing takes a prolonged amount of time	6
230	SFMTA Commissioning Coordination (inaccurate time for coordination or participation from Muni Ops)	6
261	Internal Staffing Resource Issue	6



## 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. With conditions in the Bay Area improving, the City has adjusted various restrictions which limit indoor and outdoor activities and placed the City and County in the "Yellow Tier" which is less restrictive. The City's Health Office anticipates further adjustment to these restrictions as conditions for COVID-19 improves in the Bay Area and the State of California. The City has adjusted its "Shelter-In-Place" guidelines and is allowing some non-essential staff to return to work. 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 no cases in April. The current cumulative number of staff that have undergone quarantine for the project remains at twenty-nine. 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. 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 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 month of April, there was no recordable injury.

### **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 do installations related to electrical, communication, and sidewalk restoration.
2. At UMS, we continue to work on installation of drywall, CMU wall, anti-graffiti film and cabinets.
3. At the YBM station, we continue to install metal cladding and CCTV testing.
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

Through Month End April 2021

### SAFETY GOALS

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

JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	39	8	47	1.09
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	10	1	11	0.25
Total Project Incidents	49	9	58	1.34
Man Hours Worked Through M/E APRIL 2021	4,173,958	4,480,983	8,654,940	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	1	0	1	1.30
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 APRIL 2021	39,297	113,979	153,276	

\* 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.



***Worker on the platform at CTS***

# Staffing

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

	Feb-2021		Mar-2021		Apr-2021	
	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 - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
CM - CN 1300	21.55	41.10	21.55	40.10	21.55	40.10
Design Support - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CN 1300	9.00	15.75	9.00	15.75	9.00	15.75
<b>Subtotal</b>	<b>30.55</b>	<b>56.85</b>	<b>30.55</b>	<b>55.85</b>	<b>30.55</b>	<b>55.85</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>80.25</b>	<b>58.60</b>	<b>79.25</b>	<b>58.60</b>	<b>79.25</b>

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



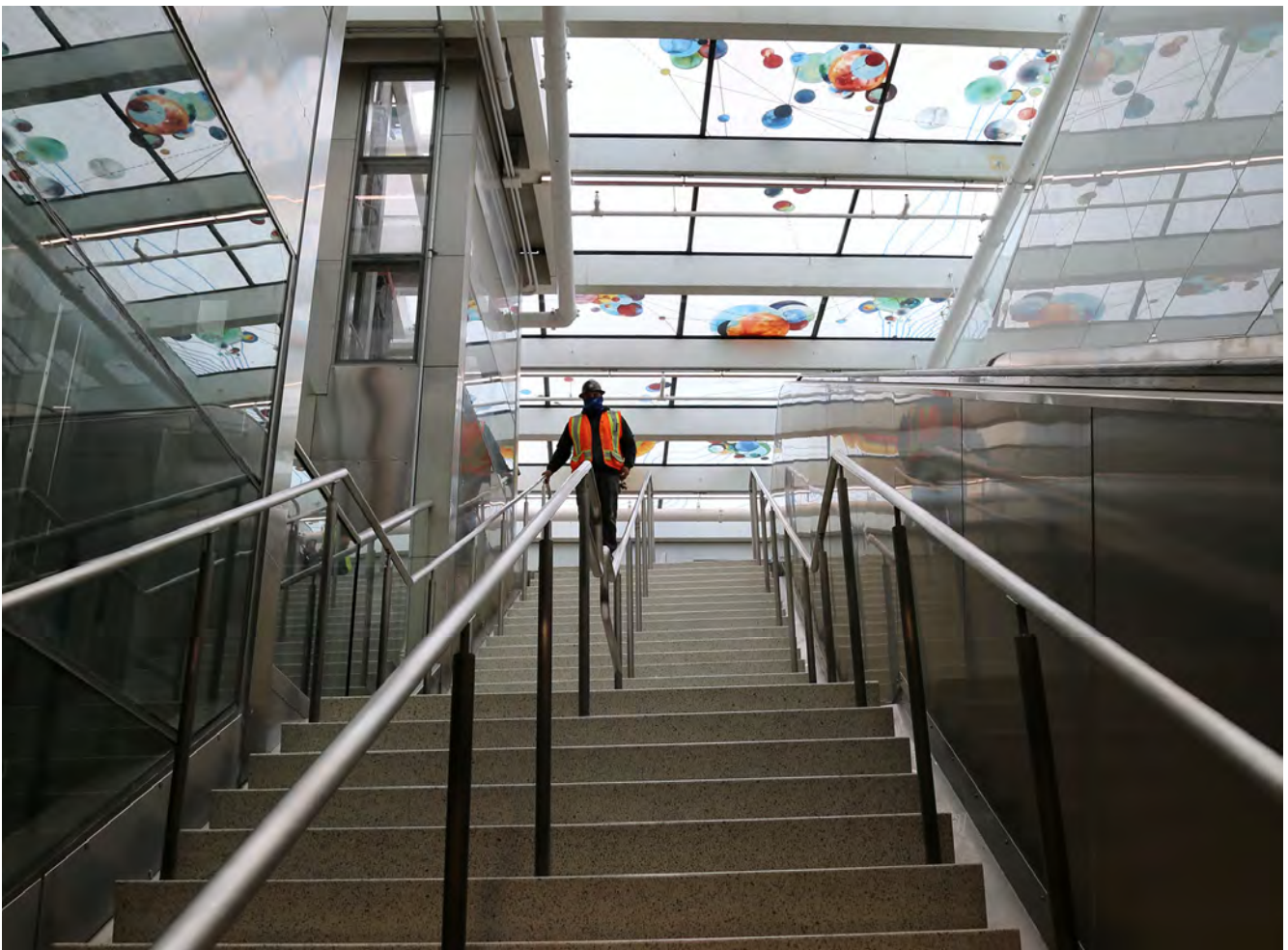
## Third-Party Agreements

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.



*Stair case leading up to Geary street*

# central **T** subway

## Current Construction Activity



**Chinatown (CTS)**



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



**Yerba Buena/Moscone (YBM)**



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

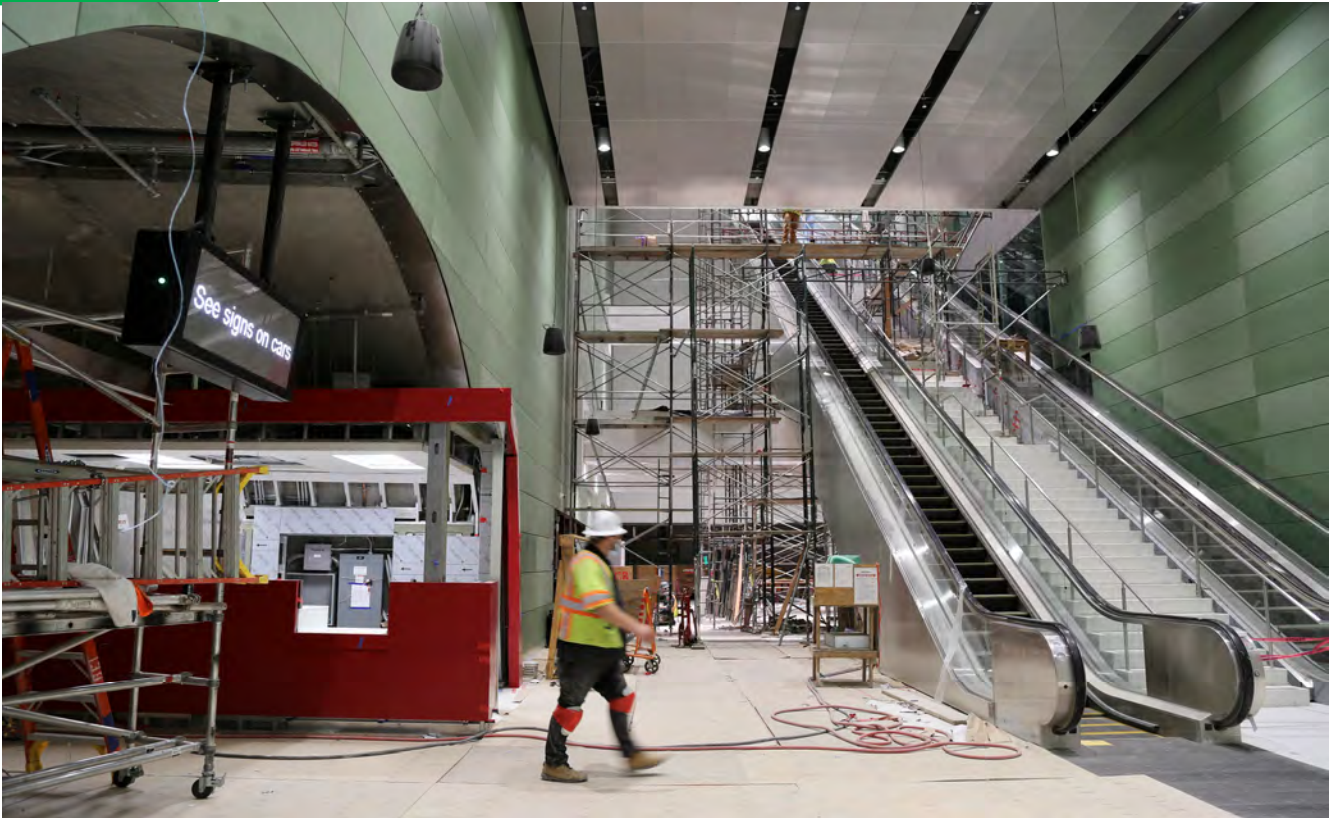


Placeholder image until a real photo is available





**CTS**



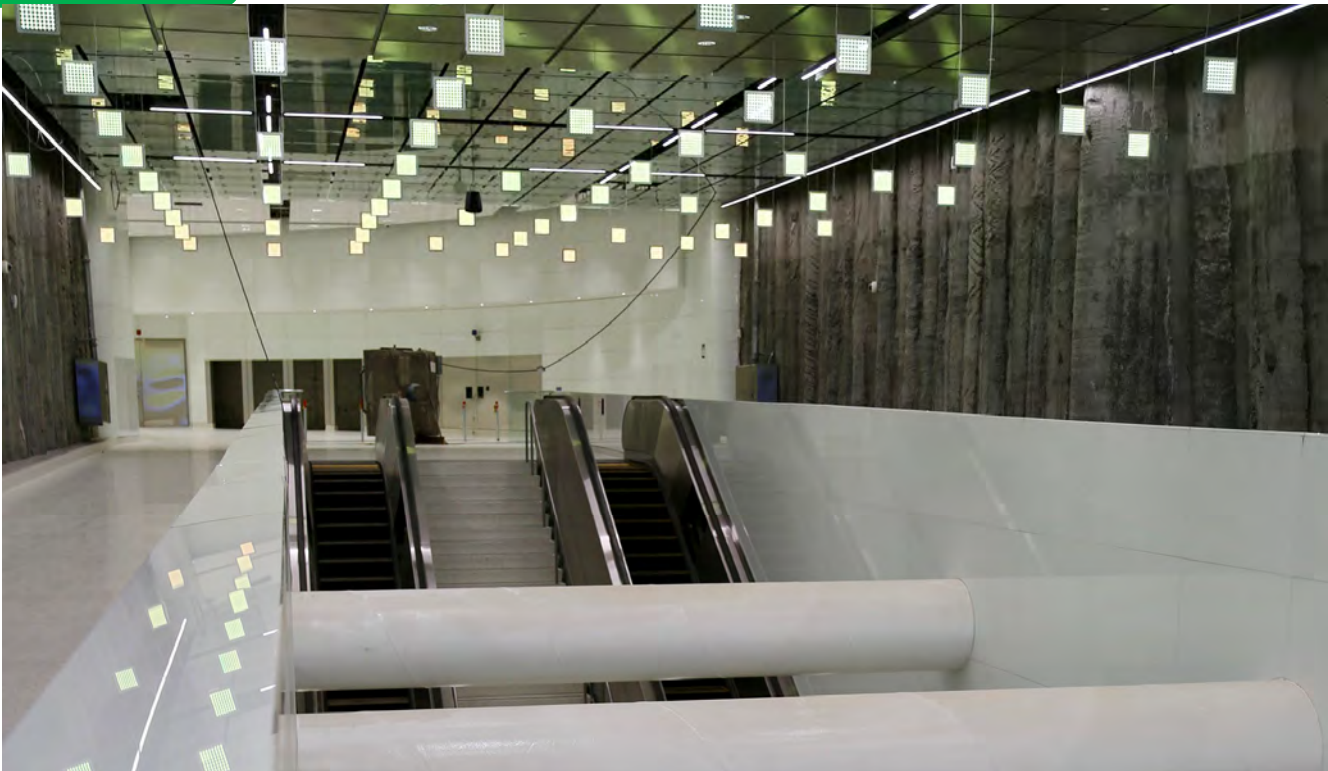
*View of the ticketing hall at CTS*



*Station entrance at CTS*



# UMS



*View of the ceiling light artwork over the escalators at UMS*



*View of the kiosk at UMS*





*View of the concourse at YBM*



*View of the stair case leading out of YBM*





*View of the artwork on 4th street*



*Workers installing overhead wiring at the portal*

*Appendix A*

**DETAIL COST REPORTS**

\*April 2021 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 \$1.829 billion in year of expenditure dollars (\$YOE). The project continues to work with our funding partners to address the current funding issues. Currently, the project estimates the Estimate at Completion (EAC) to be \$1.891B or \$313M above the original budget of \$1.578B. These revised estimates have been shared with our board and funding partners. Based on the additional funding requirement, the project has received additional \$299M from capital contingency funds. The project will continue to work with Finance and Grants to secure the remaining funds which will come from redirecting flexible funds from other funded capital projects. EAC has been incorporated with claim settlements, contract modifications and delayed cost due to the current pandemic. With the revised EAC, the team continues to 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. The team continues to work with SFMTA Finance and Grants to book the remaining funds as they are identified and become available to the program.

Total net incurred costs for the project are \$1,828.79 million, a \$10.46 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,833.02 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$4.76 million) and estimates of outstanding pay requests credits of (\$21.47 million). The revised total project budget is \$1.877 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 \$71,600,000 appropriated in April 2021 . 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
		TO	AMOUNT	
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*	131	1/31/2021	\$	316,217.08
CS155.2*	132	2/28/2021	\$	316,217.08
CS155.2*	133	3/31/2021	\$	316,217.08
CS155.2*	134	4/30/2021	\$	316,217.08
CS155.3	130	1/31/2021	\$	106,719.34
CS155.3*	131	2/28/2021	\$	106,719.34

CONTRACT	PP NO	PP PERIOD		PROG PYMT
		TO	AMOUNT	
CS155.3*	132	3/31/2021	\$	106,719.34
CS155.3*	133	4/30/2021	\$	106,719.34
CN1300	91	4/30/2021	\$	3,591,578.25
CS149	144	11/30/2020	\$	1,061,102.35
CS149*	145	12/31/2020	\$	1,061,102.35
CS149*	146	1/31/2021	\$	1,061,102.35
CS149*	147	2/28/2021	\$	1,061,102.35
CS149*	148	3/31/2021	\$	1,061,102.35
CS149*	149	4/30/2021	\$	1,061,102.35
other accruals*		4/30/2021	\$	(28,535,272.38)

\* Estimated Amount

\$ (16,710,725.35)



**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 did not process any contract modifications. Refer to Report 7.5 for approved contract modifications and potential changes.

**3. BUDGET TRANSFERS**

An overall amount of \$71,600,000 was used to re-align the SCC categories; \$8,500,000 to increase SCC 50; \$61,100,000 to SCC 20 category and \$2,000,000 to SCC 80.03-80.04 categories. 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>	

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## 5. EARNED VALUE (EV) ANALYSIS

In April 2021 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA April Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

### **Preliminary April Earned Value**

Overall Budgeted Cost:	\$1,877,153,762
Planned Value:	\$1,593,491,019
Earned Value:	\$1,492,163,448
Actual Cost:	\$1,828,785,137
Schedule Performance Index (SPI):	0.94
Cost Performance Index (CPI):	0.82
Percent Complete:	93.6%

**SFMTA, EV Chart**  
**APRIL 30, 2021 Update**

Activity ID	Activity Name	Start	Finish	Performance % Complete	Budgeted Total Cost	Planned Value Cost (PV)	Earned Value Cost (EV)	Actual Total Cost (AC)	CVI	SVI
<b>CENTRAL SUBWAY PROJECT</b>										
		03-Jun-03 A	10-Apr-24	93.64%	\$1,677,153,762.15	\$1,593,491,018.89	\$1,492,163,448.46	\$1,828,785,138.00	0.82	0.94
	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	\$114,034,067.22	1.01	1.00
	Light Rail Vehicles	15-Apr-13 A	20-Oct-21	8.25%	\$12,000,000.00	\$26,385,653.00	\$2,177,131.59	\$11,928,246.72	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	\$30,596,264.53	1.22	1.00
	Construction Phase	03-Jan-10 A	04-Nov-23	95.02%	\$1,670,593,427.00	\$1,358,561,966.32	\$1,290,962,373.80	\$1,625,681,499.00	0.79	0.95
	Construction Support and Costs	03-Jan-10 A	04-Nov-23	99.71%	\$259,589,090.00	\$199,862,849.06	\$199,289,569.82	\$239,927,754.19	0.83	1.00
	Construction Utility Contract #1 - MOIS & 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 - JIMS 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-Apr-21	93.05%	\$233,511,263.03	\$251,069,047.23	\$233,608,974.28	\$233,511,253.34	1.00	0.93
	Construction STS P-1256/ATCS	20-May-14 A	16-Sep-21	53.87%	\$18,036,709.00	\$18,036,709.00	\$9,715,504.32	\$5,336,165.00	1.82	0.54
	Construction STS P-XXXX Radio	27-Aug-19 A	13-Aug-21	0.8%	\$4,809,852.50	\$4,841,950.49	\$38,735.60	\$32,098.00	1.21	0.01
	Construction CN-1300	03-Jun-13 A	17-Dec-21	95.72%	\$1,122,009,291.00	\$851,989,678.54	\$815,546,657.77	\$1,114,236,997.00	0.73	0.96
	Unallocated Contingency	26-Apr-21	04-May-22	0%	\$801,869.00	\$9,519,456.49	\$0.00	\$0.00	0.00	0.00
	Project Management	05-May-22	10-Apr-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.

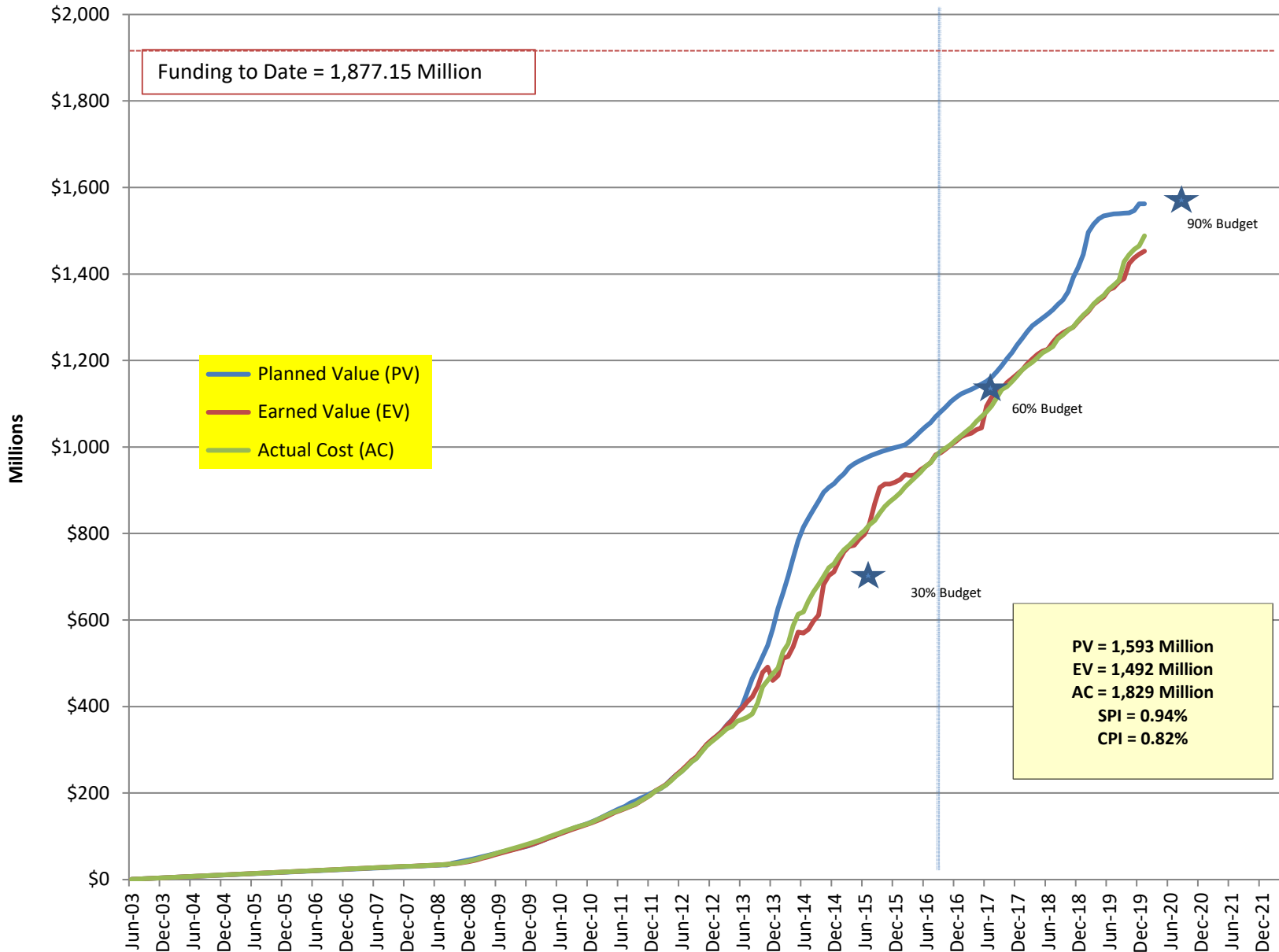
<b>Funding Available Table</b>		
	<b>Funding</b>	
	<b>Committed Funding Sources</b>	<b>Total Awarded Funds to Date</b>
<b>Federal</b>		
Sect. 5309-NS	\$942,200	\$942,200
Sect. 5307-OBAG	\$15,980	\$15,980
CMAQ	\$41,025	\$41,025
<b>Federal Subtotal</b>	<b>\$999,205</b>	<b>\$999,205</b>
<b>State</b>		
TCRP	\$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	\$311,424
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>\$477,907</b>
<b>CPT 544 Total</b>	<b>\$1,578,300</b>	<b>\$1,877,154</b>

## 7. LIST OF COST REPORTS

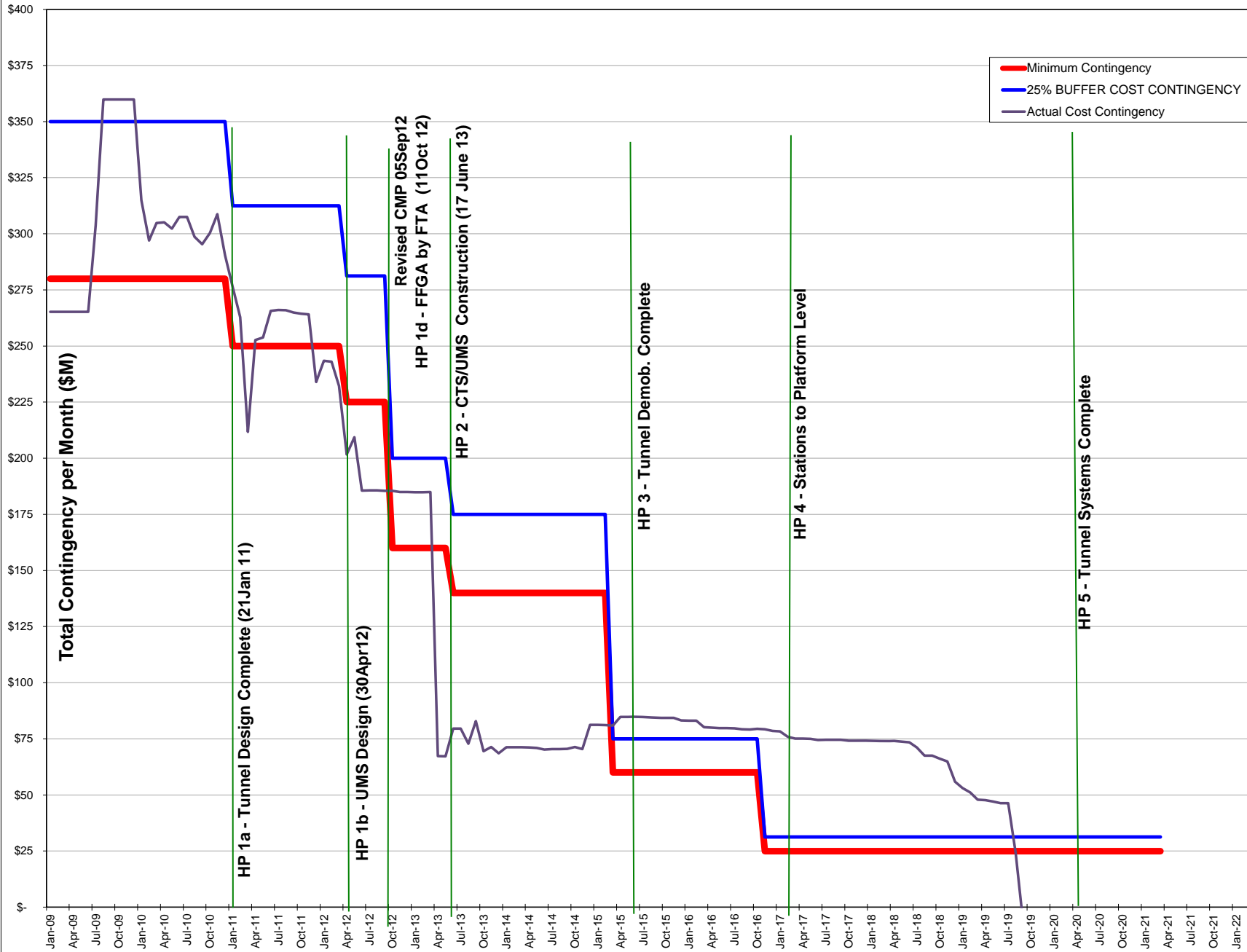
- 7.1 Program Project Budget
- 7.2 Earned Value Cash Flow
- 7.3 Contingency Drawdown Curve
- 7.4 Summary Contingency Management Trend Report
- 7.5 Detail Contingency Usage Report
- 7.6 Budget Revisions: Report sorted by Construction Packages & Soft Costs
- 7.7 Project Budget & Expenditure Report: Sorted 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	\$9,360,183	68CPT7181341	partial	yes	17a
<b>Total:</b>		<b>\$34,055,792</b>				

# Earned Value Cash Flow Curve



# Cost Contingency Drawdown





COST ELEMENT	CONTRACT COST					CONTINGENCY					BUDGET	VARIANCE	Cost Report Notes	
	ORIGINAL CONTRACT VALUE / September 2013 SUPPLEMENTAL BUDGET	APPROVED CHANGES	CURRENT CONTRACT VALUE	POTENTIAL CHANGES	ESTIMATE AT COMPLETION (EAC)	ORIGINAL CONTINGENCY / Sep 2013 SUPPLEMENTAL CONTINGENCY (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	h	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	303,622,187	1,143,298,587	2,132,848	1,145,431,436	20,000,000	280,369,599	290,869,599	(12,752,588)	(14,885,437)	(14,885,437)	21	
	1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	20,744,337	314,774,927	751,832	315,526,758	5,000,000	15,000,000	20,000,000	(744,337)	(1,496,168)	(1,496,168)		
	1254 CHINA TOWN STATION [CTS]	247,567,810	156,181,923	403,749,733	641,179	404,390,911	5,000,000	139,679,388	144,679,388	(11,502,535)	(12,143,713)	(12,143,713)	22	
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	4,889,959	162,978,959	343,999	163,322,958	5,000,000	10,000,000	15,000,000	10,110,041	9,766,042	9,766,042		
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	121,805,969	261,794,969	395,839	262,190,808	5,000,000	115,690,211	111,190,211	(10,615,758)	(11,011,597)	(11,011,597)		
OTHER		39,923,508	23,775,304	63,698,812		63,698,812	2,056,645	10,560,000	26,958,595	3,183,291	3,183,291	66,882,103	3,183,291	23
	SCC 10 - 50 Construction Sub-total	1,139,532,783	333,855,472	1,473,388,254	2,132,848	1,475,521,103	53,035,782	266,408,441	324,286,173	(9,569,297)	(11,702,146)	1,463,818,956	(11,702,146)	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	0	32,246,321	0	25
70	VEHICLES	24,108,712	(7,308,712)	16,800,000		16,800,000	2,276,941	(7,076,941)	(4,800,000)	(4,800,000)	(4,800,000)	12,000,000	(4,800,000)	26
80	PROFESSIONAL SERVICES	310,518,041	56,410,151	366,928,192		366,928,192	18,221,079	(16,862,657)	1,358,422	1,358,422	1,358,422	368,286,614	1,358,422	26a
	SCC 60 - 80 Construction Sub-total	371,138,552	44,835,961	415,974,513	0	415,974,513	21,498,020	(24,939,598)	(3,441,578)	(3,441,578)	(3,441,578)	412,532,935	(3,441,578)	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	(261,295,781)	(257,449,836)	801,869	801,869	801,869	801,869	27
<b>TOTAL</b>		1,510,671,335	378,691,433	1,889,362,768	2,132,848	1,891,495,616	78,379,747	(19,826,938)	63,394,759	(8,469,002)	(8,469,002)	1,877,153,760	(14,341,856)	
												<b>Total Project Budget</b>	<b>1,877,153,760</b>	28
												<b>Estimate At Completion</b>	<b>1,891,495,616</b>	29
												<b>Variance</b>	<b>14,341,856</b>	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

Awarded NTE Amount	839,676,400	\$1,143,298,587
Substantial Completion	Spring 2021	Spring 2021

	UMS	CTS	YBM	STS	COST REPORT NOTES
<b>Potential Changes</b>	<b>751,832</b>	<b>641,179</b>	<b>343,999</b>	<b>395,839</b>	31
<b>Change Order - Pending</b>					
CTS COR 1568 Elevators 1 & 2 Routin		27,484			
CTS COR 2251 2" PVC Casings Con		0			
CTS COR 2253 Cement Type to Match P		53			
CTS COR 2430 Vent Riser vs GFRC		10,379			
CTS COR 529 Rock Mass at Elev 37'		91,000			
CTS PCC 760 Elev 1&2 and MEP confli		17,640			
CTS PCC 774 Tomie Arai Artwork Supp		28,281			
CTS PCC 863 Stair Nosing		1,788			
CTS PCC 956 Add drainage system		1,742			
CTS PCC 991 Panic Door Hardware		885			
Job Readiness - CTS		(195,000)			
Job Readiness - STS				(70,000)	
Job Readiness - UMS	(195,000)				
Job Readiness - YBM			(70,000)		
STS COR 2129 Confirm Revised Routin				5,850	
STS COR 2266 Escalator Ultra violet				0	
STS COR 2424 SS Box and GRS Conduit				13,479	
STS COR 2585 ELEVATOR and ESCALATOR				26,856	
STS PCC 835 PDS Sign Support at CTS				773	
STS PCC 908 Additional Radio Work				24,327	
STS PCC 940 SCADA Points List Revis				8,365	
STS PCC 954 Add FDC at 4th/Harrison				13,329	
STS PCC 981 TP Lighting Arrestors				61,179	
UMS COR 1509 Conc. Demo @ S Corbels	10,387				
UMS COR 2578 PSC Chgs to FP Deluge	12,722				
UMS PCC 842 Relocate Supply Fans at	13,204				
UMS PCC 985 Add Neg Rtn Wiring Gap	23,162				
YBM COR 2065 Added Cladding to Esca			0		
YBM COR 2229 Concrete Wall and Elev			0		
YBM COR 2257 Missing Existing OCS w			13,000		
YBM PCC 824 Station Signage Revise			9,285		
YBM PCC 955 Wall Dtls to Fill Gap U			6,016		
YBM PCC 976 Sta Agent Booth Door Ja			31,503		
YBM PCC 986 Relocate Camera MOS-P20			2,802		
<b>Change Order Request (COR)</b>					

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,143,298,587 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CTS COR 1042 SFWD Delay		230				
CTS COR 1966 Add'l Revision to Elev		514				
CTS COR 2165 Rebar at Stair 7 Slab		965				
CTS COR 2166 Layer of Rebar to CC A		1,966				
CTS COR 2330 Move Concrete Wall		1,652				
CTS COR 2350 Landscape Des. Issues		4,665				
CTS COR 2354 GFRC-1 Panel Det		8,218				
CTS COR 2363 Reloc. Switch Bank		24,779				
CTS COR 2385 Elev Rough Opening		3,191				
CTS COR 2398 GFRC Soffit		5,381				
CTS COR 2423 DBI Relocating Signs		3,215				
CTS COR 2433 H Beam Angle Rev		7,119				
CTS COR 2446 Chgs to Glass at Coil		15,155				
CTS COR 2447 EXP Joint Cover		8,210				
CTS COR 2449 Circuit Breaker Change		6,243				
CTS COR 2453 Rail Mod Due to Damper		5,109				
CTS COR 2461 Vent Shaft Drainage		11,136				
CTS COR 2477 Stair Glass & Framing		17,370				
CTS COR 2495 Demountable GFRC		4,460				
CTS COR 2499 PSC Added Esc Barrier		382				
CTS COR 2520 Beam Conflict Stair 6		2,999				
CTS COR 2530 GFRC Panels Over Doors		10,398				
CTS COR 2558 power for door operato		3,485				
CTS COR 2567 GFRC plate details		6,964				
CTS COR 2575 Rolling Gate Add Hardw		723				
CTS COR 2576 additional finish requ		4,711				
CTS COR 2594 Parapet Wall at Plaza		36,516				
CTS COR 2606 anti static floor		2,316				
CTS COR 2611 location of switches		4,337				
CTS COR 2615 relocation of cmu wall		9,532				
CTS COR 2622 added bathroom accesso		1,606				
GEN COR 1686 T&M Delay Impacts	645,754					
STS COR 1676 Pavement Renovation De				88		
STS COR 2002 All Stations Keying Sc				343		
STS COR 2362 Doors Project Delay Im				24,748		
STS COR 2383 Signal Power Wiring De				1,018		
STS COR 2390 Termination Details fo				837		



Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021				\$1,143,298,587 Spring 2021	
	UMS	CTS	YBM	STS		COST REPORT NOTES
STS COR 2434 Facilitate Routing of				11,014		
STS COR 2441 SCADA PLC Cabinet Powe				4,543		
STS COR 2452 Revise Radio Mount due				3,397		
STS COR 2493 Elevator Cabs CCTV Cab				9,516		
STS COR 2533 Excavation Permit to P				817		
STS COR 2601 Plumbing and Fire Perm				895		
STS COR 428 Sewer Roof Repair Detai				4,274		
STS COR 487 Re inspection of 4th an				12,777		
UMS COR 2467 RPSC Change Door Stops	1,172					
UMS COR 2475 Acc Ctrl @ Door CN34B	1,604					
UMS COR 2500 Bart Powell New Elev E	1,916					
UMS COR 2565 Bart Elv Rebar Scannin	1,901					
UMS COR 2593 Bart Elv Storage Fee		9,444				
UMS COR 2610 Elv Relocatn of Existi	157,540					
UMS COR 2616 Bart Elv - Survey Moni	6,176					
YBM COR 2375 Access control for eme			26,037			
YBM COR 2399 Beam and Door Conflict			3,039			
YBM COR 2425 Surface Level Exterior			2,513			
YBM COR 2429 pump excess water			2,286			
YBM COR 2451 Revise slab Edge Dimen			4,645			
YBM COR 2465 Remove Wire, Relocate			3,367			
YBM COR 2474 Revisions at Elevators			22,244			
YBM COR 2480 Metal panel cut-outs a			8,129			
YBM COR 2494 Instl LEO Door OPR			3,153			
YBM COR 2496 Elevator 3 & 4 Hoistwa			3,728			
YBM COR 2526 Relocation of Light Sw			3,270			
YBM COR 2536 Escalator 1 & 2 Side C			32,169			
<b>Negotiation</b>						
CTS 2602 Station Agent Booth Cab Do		2,136				
CTS COR 2050 Grating at PlatformLvl		1,131				
CTS COR 2416 Rev Floor Mounting		4,672				
CTS COR 2484 Reloc.&Instl Sprinkler		427				
CTS COR 2487 Recess in Conc. Wall		996				
CTS COR 2504 Terrazzo Machine Room		3,663				
CTS COR 2525 Provide OH Elect DD EI		3,651				
CTS COR 2532 Provide SPEC & DES Det		2,398				
CTS COR 2538 PSC Provide REV Mounti		712				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,143,298,587 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CTS COR 2554 Plaza Lvl Fireproofed		762				
CTS COR 2560 conflict with sprinkle		9,747				
CTS COR 2574 Finish on Concrete Wal		1,070				
CTS COR 2584 Painting GSM Coping		317				
CTS COR 2588 Stair 7 Handrail Termi		893				
CTS COR 2591 stair 6 col, beam, sla		1,609				
CTS COR 2595 added ss closure		18,520				
CTS COR 2604 cmoke door adj		299				
CTS PCC 924 Access for Pipes at CMU		3,922				
CTS PCC 943 Reactivate 12" AWSS		47,690				
CTS PCC 960 Cement Board for Terraz		6,200				
CTS PCC 993 12' Vehicular Lane		3,983				
STS COR 2549 DSC NOD Miss 2" Sleev				152		
STS COR 2557 Changes to End of Plat				6,936		
STS PCC 1011 ATCS Relocate Procure				45,875		
STS PCC 504 Traffic Control Require			5,598			
STS PCC 803 Add COVID Monitoring				18,660		
STS PCC 807 Cross Passage Door Fram				6,587		
STS PCC 942 location of Directional				2,495		
STS PCC 957 ATCS RLB Support Mod				3,300		
STS PCC 980 Spot Acceleration				14,650		
UMS COR 2032 Mountaining Dtl Lght	3,213					
UMS COR 2297 Steel Ch @ Joint	811					
UMS PCC 1006 Bird Netting Placement	16,715					
UMS PCC 802 Dlt BART Faregate	(1,244)					
UMS PCC 979 Hoistway Light Fixtures	33,919					
YBM COR 390 Chip Mezzanine Headwall			7,801			
YBM PCC 1000 Esc 1 & 2 Cladding Fla			25,758			
YBM PCC 748 Added FSDs in Sector 3			13,815			
YBM PCC 770 Revised Wall Panels			12,457			
YBM PCC 889 Replace Transformer T-1			20,020			
YBM PCC 970 Non-compliance Rectific			130,251			
YBM PCC 997 Change Door Stops			389			
<b>Proposed Contract Change (PCC)</b>						
CTS PCC 486Rev 1 Structural Slab Cha		4,954				
CTS PCC 548 Spot Acceleration		260,000				
CTS PCC 728Rev 1 Rev to Restroom Plz		1,356				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,143,298,587 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CTS PCC 932 Power to Rails		1,300				
CTS PCC 934 Re-groutable Hose Inje		6,500				
CTS PCC 937 Switchgear Anchor in TP		650				
CTS PCC 946 Cavern Grout Equivalent		22,640				
CTS PCC 971 Sidewalk Blockout for S		650				
CTS PCC 992 Protection for Cables		650				
CTS PCC628 Police Officer at Powell		19,500				
CTS PCC746 GFRC Framing Support		939				
STS PCC 1003 Traction Power K-6 Tie				(650)		
STS PCC 1019 OCS Revisions at CTS				3,900		
STS PCC 618 Mod Swoosh Arm P1 P2				1,223		
STS PCC 725 ATS for CP5 Sump Pump				4,182		
STS PCC 790 4th Street Portal Gate				19,500		
STS PCC 831 ATCS Equip Transport				6,481		
STS PCC 921 OCS Dead End Revisions				6,500		
STS PCC 922 4th Bryant Add Taffic S				89,006		
STS PCC 938 Electrical Cabinet Revi				59		
STS PCC 958 Asbestos Testing Abate				1,300		
STS PCC 974 OCS Modifications CTS				7,694		
STS PCC 978 Delete Tiles & Barriers				(437)		
UMS PCC 1027 Relocate S Pltfm CCTV	650					
UMS PCC 930 Pwr for Gap Breaker Rm	1,038					
UMS PCC 941 EV Fan Damper Guardrail	2,600					
UMS PCC 984 Elev. Escal. Rms Resolu	13,590					
YBM PCC 1001 Rplc DC P1 w Cmbo Star			751			
YBM PCC 1010 Missing UPS Wiring			1,048			
YBM PCC 817 Revise Spindle Length			1,300			
YBM PCC 933 Lighting Revisions in M			13,000			
YBM PCC 949 Dtls for Esc Cladding			3,526			
YBM PCC 982 Protection for Neg Rtrn			1,100			
<b>Approved</b>	<b>20,744,337</b>	<b>156,181,923</b>	<b>4,889,959</b>	<b>121,805,969</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			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021			\$1,143,298,587 Spring 2021	COST REPORT NOTES
	UMS	CTS	YBM	STS	
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)	
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 #10 YBM PCC 042			64,287		
CMod #100 UMS PCC 102 Fire & Life	48,149				
CMod #101 YBM COR 75 Slurry Wall			22,423		
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	



Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021				\$1,143,298,587 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES
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 #118 YBM Various PCCs & CORs			421,616		
CMod #12 STS Traffic Control				1,032,302	
CMod #123 CTS PCC 050 Chinatown Plaz		9,360,183			
CMod #124 STS Delete ARS				(4,876,785)	
CMod #125 Omnibus				18,995,027	
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 #130 ATCS				15,920,625	
CMod #131 PCC 569 EVAC Fire Alarm				1,210,445	
CMod #133 CTS Frontier Temper Claims		10,382,106			
CMod #136 Fire Alarm				6,976,834	
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 #43 UMS D85 Structural Pile	65,188				
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)

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021			\$1,143,298,587 Spring 2021	
	UMS	CTS	YBM	STS	COST REPORT NOTES
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				
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)	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount Substantial Completion	839,676,400 Spring 2021					\$1,143,298,587 Spring 2021
	UMS	CTS	YBM	STS	COST REPORT NOTES	
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		
Cmod#134: STS - Omnibus 1 Settlement				29,848,737		
Cmod#135: UMS - Layne Claims	13,000,000					
Cmod#137: CTS - Global Settlement		93,600,000				
Cmod#138: STS - Omnibus 2 Settlement				53,000,000		
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				0		
CTS CMod #122 Schedule Delay Costs		31,240,000				
STS CMod 045 PCC 008 Tunnel Lowering				107,285		
<b>Grand Total</b>	<b>21,496,168</b>	<b>156,823,101</b>	<b>5,233,958</b>	<b>122,201,808</b>		

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

Report Period: April 2021

		March 2021			April 2021				
Group by Contract & SCC	CATEGORY ITEM	March 2021 Base	March 2021 Allocated Contingency	March 2021 Base + Allocated Contingency (YOE)	April 2021 Base	April 2021 Allocated Contingency	April 2021 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [April 2021] vs. [March 2020]	Cost Report Notes
10-50	<b>CONSTRUCTION CONTRACT PACKAGES</b>	<b>1,470,606,304</b>	<b>(81,229,296)</b>	<b>1,394,218,958</b>	<b>1,479,106,304</b>	<b>(20,129,296)</b>	<b>1,463,818,958</b>	<b>0</b>	
1250	UTILITY RELOCATION PACKAGE #1	12,134,906		12,134,906	12,134,906		12,134,906	0	
	Contract 1250 Form B Credit	(2,275,419)		(2,275,419)	(2,275,419)		(2,275,419)	0	
1251	UTILITY RELOCATION PACKAGE #2	20,744,696		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>1,143,298,587</b>	<b>(82,389,296)</b>	<b>1,060,909,291</b>	<b>1,143,298,587</b>	<b>(21,289,296)</b>	<b>1,122,009,291</b>	<b>61,100,000</b>	33
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	314,774,927	(744,337)	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]	403,749,733	(40,602,535)	363,147,198	403,749,733	(11,502,535)	392,247,198	29,100,000	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	162,978,959	10,110,042	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]	261,794,969	(51,152,467)	210,642,502	261,794,969	(19,152,467)	242,642,502	32,000,000	
	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>80,912,062</b>	<b>1,160,000</b>	<b>82,072,062</b>	<b>89,412,062</b>	<b>1,160,000</b>	<b>90,572,062</b>	<b>8,500,000</b>	
40.06	PUBLIC ART PROGRAM	8,175,555	1,160,000	9,335,555	8,175,555	1,160,000	9,335,555	0	
40.08	CN1300 JOB READINESS PROGRAM - OUTREACH	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	16,507,930		16,507,930	25,007,930		25,007,930	8,500,000	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 & SOFT COSTS

Report Period: April 2021

		March 2021			April 2021				
Group by Contract & SCC	CATEGORY ITEM	March 2021 Base	March 2021 Allocated Contingency	March 2021 Base + Allocated Contingency (YOE)	April 2021 Base	April 2021 Allocated Contingency	April 2021 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [April 2021] vs. [March 2021]	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>12,000,000</b>	<b>0</b>	<b>12,000,000</b>	<b>12,000,000</b>	<b>0</b>	<b>12,000,000</b>	<b>0</b>	
70.01	LIGHT RAIL	12,000,000	0	12,000,000	12,000,000	0	12,000,000	0	36
80	<b>PROFESSIONAL SERVICES</b>	<b>364,928,190</b>	<b>1,358,422</b>	<b>366,286,612</b>	<b>366,928,190</b>	<b>1,358,422</b>	<b>368,286,612</b>	<b>2,000,000</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	109,742,469	0	109,742,469	110,742,469	0	110,742,469	1,000,000	36a

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

Report Period: April 2021

		March 2021			April 2021				
Group by Contract & SCC	CATEGORY ITEM	March 2021 Base	March 2021 Allocated Contingency	March 2021 Base + Allocated Contingency (YOE)	April 2021 Base	April 2021 Allocated Contingency	April 2021 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [April 2021] vs. [March 2021]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	124,777,105	0	124,777,105	125,777,105	0	125,777,105	1,000,000	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>1,879,780,816</b>	<b>(79,870,874)</b>	<b>1,804,751,891</b>	<b>1,890,280,816</b>	<b>(18,770,874)</b>	<b>1,876,351,891</b>		37
90	UNALLOCATED CONTINGENCIES			801,872			801,872		38
	<b>TOTAL PROJECT COST 10 TO 100</b>			<b>1,805,553,764</b>			<b>1,877,153,764</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 March 2021	BUDGET TRANSFERS	BUDGET April 2021	Sum of April 2021	Remaining Budget (Column H-Column I)	April 2021 EAC	April 2021 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	284,149,416	112,032	284,261,448	-	39
STATIONS, STOPS, TERMINALS, INTERMODAL SITEWORK & SPECIAL CONDITIONS	SCC 020	573,099,645	482,686,631	61,100,000	543,786,631	547,399,759	(3,613,128)	565,766,893		39
SYSTEMS	SCC 040	235,514,097	507,149,098	-	507,149,098	505,578,585	1,570,513	506,353,929		39
ROW, LAND, EXISTING IMPROVEMENTS	SCC 050	90,774,397	120,121,781	8,500,000	128,621,781	103,208,800	25,412,982	119,138,833		39
VEHICLES	SCC 060	37,511,799	32,246,321	-	32,246,321	30,704,169	1,542,152	32,246,321		
PRELIM ENGINEERING	SCC 070	26,385,653	12,000,000	-	12,000,000	11,929,247	70,753	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	61,282,422	35,909	61,318,331		
OTHER PROF SRVCS	SCC 080.03 - 080.04	197,146,664	234,519,574	2,000,000	236,519,574	224,644,130	11,875,444	236,519,574		39
UNALLOC CONTINGENCY	SCC 080.05 - 080.08	24,416,118	24,246,033	-	24,246,033	13,685,936	10,560,097	22,887,611		
	SCC 090	3,883,480	801,869	-	801,869	-	801,869		801,872	39
<b>Grand Total</b>		<b>1,578,300,000</b>	<b>1,805,553,760</b>	<b>71,600,000</b>	<b>1,877,153,760</b>	<b>1,828,785,137</b>	<b>48,368,623</b>	<b>1,891,495,614</b>	<b>801,872</b>	

SCC DESCRIPTION	April 2021 BUDGET	April 2021 CTD
010 - GUIDEWAY & TRACK ELEMENTS	284,261,448	284,149,416
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	543,786,631	547,399,759
040 - SITEWORK & SPECIAL CONDITIONS	507,149,098	505,578,585
050 - SYSTEMS	128,621,781	103,208,800
060 - ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	30,704,169
070 - VEHICLES (number)	12,000,000	11,929,247
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	368,286,612	345,815,162
090 - UNALLOCATED CONTINGENCY	801,869	0
<b>Grand Total</b>	<b>1,877,153,760</b>	<b>1,828,785,137</b>



SCC DESCRIPTION	April 2021 BUDGET	April 2021 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	69,806,407
010.07-Guideway: Underground tunnel	200,374,315	200,276,715
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	6,968,166
020.02-Aerial station, stop, shelter, mall, terminal, platform	(19,152,467)	0
020.03-Underground station, stop, shelter, mall, terminal, platform	523,664,165	518,643,846
020.04-OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0
020.07-Elevators, escalators	22,311,892	21,787,747
040.01-Demolition, Clearing, Earthwork	12,754,615	12,502,015
040.02-Site Utilities, Utility Relocation	68,753,443	80,346,805
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	9,423,125	7,618,511
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	626,185
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	5,597,254
040.07-Automobile, bus, van accessways including roads, parking lots	6,579,099	6,473,696
040.08-Temporary Facilities and other indirect costs during construction	396,018,492	389,707,688
050.01-Train control and signals	38,688,008	27,348,604
050.02-Traffic signals and crossing protection	12,804,956	12,185,743
050.03-Traction power supply: substations	21,465,073	22,814,067
050.04-Traction power distribution: catenary and third rail	12,441,113	5,708,241
050.05-Communications	34,508,045	32,017,658
050.06-Fare collection system and equipment	6,100,000	841,265
050.07-Central Control	2,614,586	2,293,222
060.01-Purchase or lease of real estate	30,065,810	28,294,739
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	12,000,000	11,929,247
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,282,422
080.03-Project Management for Design and Construction	91,271,972	85,867,156
080.04-Construction Administration & Management	145,247,602	138,776,974
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	6,433,496
080.07-Surveys, Testing, Investigation, Inspection	933,100	908,184
080.08-Start up	8,300,329	4,060
090.00-Unallocated Contingency	801,869	0
<b>Grand Total</b>	<b>1,877,153,760</b>	<b>1,828,785,137</b>

[A] Cost Account Description	[B] Apr 2021 Budget (YOE)	ACTUAL COSTS					[G] VARIANCE (B - F)	COST REPORT NOTES
		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total			
<b>TOTAL PRELIMINARY ENGINEERING</b>	<b>46,542,061</b>	<b>46,542,061</b>	<b>0</b>	<b>0</b>	<b>46,542,061</b>	<b>0</b>	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	81,597	0	0	81,597	(81,597)		
<b>TOTAL FINAL DESIGN</b>	<b>115,075,988</b>	<b>114,034,067</b>	<b>0</b>	<b>0</b>	<b>114,034,067</b>	<b>1,041,921</b>		
11 - SFMTA PROJECT MANAGEMENT	21,500,000	19,328,790	194,561	329,366	19,658,156	1,841,844		
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	21,500,000	19,328,790	194,561	329,366	19,658,156	1,841,844		
12 - SFMTA ENGINEERING SERVICES	3,433,582	3,152,587	21,492	92,814	3,245,400	188,182		
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	3,310,000	3,094,939	21,492	92,814	3,187,752	122,248		
13 - SFMTA CONSTRUCTION MANAGEMENT	28,002,275	26,206,461	261,935	464,332	26,670,793	1,331,482		
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	28,002,275	26,206,461	261,935	464,332	26,670,793	1,331,482		
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	2,876,522	18,011	15,080	2,891,602	767,711		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	403,185	0	0	403,185	(103,585)		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	162,034	5,806	5,809	167,843	107,057		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	228,269	0	0	228,269	10,131		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	376,712	12,205	9,271	385,983	490,893		
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)		

[A] Cost Account Description	[B] Apr 2021 Budget (YOE)	ACTUAL COSTS					[G] VARIANCE (B - F)	COST REPORT NOTES
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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		
1.3.016.08.040.08 - 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	0	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	155,852	0	0	155,852	244,148		
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	67,354	0	0	67,354	32,646		
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 DUR	848,200	817,966	0	0	817,966	30,234		
21 - ARTS COMMISSION	12,010,886	6,434,688	27,245	115,634	6,550,322	5,460,564		
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	969,062	4,272	6,618	975,680	(141,416)		
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	3,655,803	22,973	109,016	3,764,818	(752,855)		
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	2,947,596	0	0	2,947,596	(775,815)		
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	2,947,596	0	0	2,947,596	(775,815)		
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	5,411,226	12,919	5,051	5,416,277	(1,174,265)		
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	526,440	910	1,052	527,492	(129,092)		
1.3.028.02.080.04 - PUC:MTA CSP CN1252 [470465]	105,000	91,587	0	0	91,587	13,413		

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1.3.028.03.040.02 - PUC:CDD CONTRACT 1300/UMS SUPPORT	606,354	848,913	0	0	848,913	(242,559)		
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	47,912	7,198	858	48,770	181,230		
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	243,748	4,678	1,117	244,865	26,890		
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	94,909	0	0	94,909	20,091		
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	849,927	0	1,218	851,145	(400,863)		
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	155,783	0	0	155,783	28,217		
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	225,079	474,325	0	0	474,325	(249,246)		
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	92,579	0	0	92,579	(92,579)		
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1251 [445]	340,310	318,130	0	0	318,130	22,180		
1.3.028.08.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1251	266,252	289,424	0	0	289,424	(23,172)		
1.3.028.09.040.02 - PUC:CMB CONTRACT 1300/STS SUPPORT	520,077	503,166	134	806	503,972	16,105		
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	464,294	0	0	464,294	(257,294)		
<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		
1.3.039.01.080.04 -DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2257]	151,515	151,515	0	0	151,515	0		



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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	701,276	1,480	10,388	711,664	59,179		
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	649,172	1,343	10,051	659,223	37,530		
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	29,735	137	338	30,073	24,927		
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM TRAILER	9,090	21,312	0	0	21,312	(12,222)		
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	83,238,069	74,977,433	(3,251,784)	3,785,827	78,763,260	4,474,809		
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]	10,070,497	10,748,475	(2,601,427)	2,671,497	13,419,972	(3,349,475)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3m][PM]	2,517,624	2,687,119	(650,357)	667,874	3,354,993	(837,369)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3n]	2,400,000	0	0	0	0	2,400,000		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3n][PM]	600,000	0	0	0	0	600,000		
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		

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1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9m]	1,500,000	801,998	0	446,456	1,248,454	251,546		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9n]	1,000,000	0	0	0	0	1,000,000		
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	0	0	0	0		
<b>64 - CN1300 JOB READINESS PROGRAM</b>	<b>1,060,000</b>	<b>956,145</b>	<b>0</b>	<b>0</b>	<b>956,145</b>	<b>103,855</b>	<b>61</b>	
1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855		
<b>67 - HILL INTERNATIONAL CONTRACT 156</b>	<b>3,031,391</b>	<b>2,848,817</b>	<b>0</b>	<b>0</b>	<b>2,848,817</b>	<b>182,574</b>		
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		
<b>69 - BAYLAND SOIL PROCESS CONTRACT 175</b>	<b>500,000</b>	<b>255,144</b>	<b>0</b>	<b>0</b>	<b>255,144</b>	<b>244,856</b>	<b>62</b>	
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	255,144	0	0	255,144	244,856		
<b>71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1</b>	<b>2,158,846</b>	<b>2,215,889</b>	<b>0</b>	<b>0</b>	<b>2,215,889</b>	<b>(57,043)</b>		
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)		
<b>72 - STATIONS - CONTRACT # CONTRACT 155-2</b>	<b>23,137,580</b>	<b>23,834,131</b>	<b>316,217</b>	<b>316,217</b>	<b>24,150,348</b>	<b>(1,012,768)</b>		
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]	23,086,229	23,773,001	316,217	316,217	24,089,218	(1,002,989)		
<b>73 - SYSTEMS/INTEGRATION - CONTRACT 155-3</b>	<b>7,988,979</b>	<b>7,456,748</b>	<b>-88,068</b>	<b>-22,690</b>	<b>7,434,058</b>	<b>554,921</b>		
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]	7,898,979	7,366,957	(88,068)	(22,690)	7,344,268	554,711		
<b>81 - UTILITIES RELOCATION #1 (PORTAL &amp; MOS) - CONTRACT 1250</b>	<b>11,968,150</b>	<b>11,968,150</b>	<b>0</b>	<b>0</b>	<b>11,968,150</b>	<b>0</b>		
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		
<b>82 - UTILITIES RELOCATION #2 (UMS) - CONTRACT 1251</b>	<b>20,669,081</b>	<b>20,669,081</b>	<b>0</b>	<b>0</b>	<b>20,669,081</b>	<b>(0)</b>	<b>65</b>	
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>		
<b>83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE</b>	<b>233,584,015</b>	<b>233,584,015</b>	<b>0</b>	<b>0</b>	<b>233,584,015</b>	<b>0</b>	<b>66</b>	
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		

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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		
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>	<b>0</b>	<b>0</b>	<b>(72,762)</b>	<b>0</b>	<b>67</b>	
1.3.083.83.010.06 - CONTRACT 1252: CONTRACT MOD	112,251	112,251	0	0	112,251	0		
1.3.083.83.010.07 - CONTRACT 1252: CONTRACT MOD	1,810,094	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>1,122,009,291</b>	<b>1,110,345,418</b>	<b>24,566,207</b>	<b>3,891,578</b>	<b>1,114,236,997</b>	<b>7,772,294</b>	<b>69</b>	
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253</b>	<b>294,030,590</b>	<b>290,961,017</b>	<b>(362,278)</b>	<b>(114,606)</b>	<b>290,846,411</b>	<b>3,184,179</b>	<b>21</b>	
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	251,966,204	274,002	65,279	252,031,483	1,049,969		
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	9,183,196	0	119,192	9,302,388	163,306		
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	328,346	(213,783)	(321,410)	6,936	543,064		
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	194,500	(50,000)	0	194,500	50,000		
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	18,969	0	0	18,969	0		
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,158,410	1,053,009	(100,000)	0	1,053,009	105,401		
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	9,943,273	(598,607)	(37,517)	9,905,756	1,233,945		
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	1,731,284	316,250	41,500	1,772,784	42,750		
1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	195,116	0	500	195,616	21,341		
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	1,142,061	9,860	17,850	1,159,911	(25,597)		
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs</b>	<b>20,744,337</b>	<b>20,744,337</b>	<b>0</b>	<b>0</b>	<b>20,744,337</b>	<b>0</b>		
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	1,832,330	1,832,330	0	0	1,832,330	0		
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	0	0	0	0	0	69a	
1.3.084.84.040.08 - CMOD:UMS.1253: TEMPORARY FACILITIES	13,809,103	13,809,103	0	0	13,809,103	0		
1.3.084.84.050.05 - CMOD:UMS.1253: COMMUNICATIONS	48,149	48,149	0	0	48,149	0		
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>241,057,527</b>	<b>(916,218)</b>	<b>(610,215)</b>	<b>240,447,312</b>	<b>7,120,498</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	127,543,500	(922,164)	(356,322)	127,187,178	5,813,876		
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	6,514,194	0	15,000	6,529,194	283,662		
1.3.085.04.040.01 - CTS.1254: DEMOLITION CLEARING	400,000	400,000	0	0	400,000	0		

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1.3.085.04.040.02 - CTS.1254: SITE UTILITIES UTIL	6,001,718	6,001,718	0	0	6,001,718	0		
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	350,000	500	(302,611)	47,389	302,611		
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	227,997	(95,551)	(199,047)	28,951	296,714		
1.3.085.04.040.06 - CTS.1254: PEDESTRIAN/BIKE	15,000	15,000	0	0	15,000	0		
1.3.085.04.040.07 - CTS.1254: AUTOMOBILE BUS ACCE	225,677	225,676	14,291	0	225,676	1		
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	16,116,322	(250,000)	0	16,116,322	455,000		
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	1,665,256	0	2,500	1,667,756	(68,163)		
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	4,000,802	288,100	63,125	4,063,927	0		
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	94,490	0	19,991	114,481	10,000		
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	1,484,992	48,606	147,149	1,632,141	26,797		
<b>85 - CHINATOWN STATION (CTS) CMODs</b>	<b>156,181,923</b>	<b>146,311,646</b>	<b>72,002</b>	<b>0</b>	<b>146,311,646</b>	<b>9,870,277</b>	<b>71</b>	
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	0	0	3,895,399	0		
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	137,546,308	137,145,306	93,672,002	0	137,145,306	401,002		
1.3.085.85.050.05 - CMOD:CTS.1254: COMMUNICATIONS	0	0	(93,600,000)	0	0	0	71a	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	(11,502,535)	0	0	0	0	(11,502,535)	72	
<b>86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255</b>	<b>158,089,000</b>	<b>156,205,376</b>	<b>28,839</b>	<b>(411,248)</b>	<b>155,794,128</b>	<b>2,294,872</b>		
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	118,143,928	(11,476)	43,608	118,187,536	218,304		
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	5,184,450	0	71,660	5,256,110	77,177		
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	0	0	7,163,278	0		
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	2,060,750	(276,255)	(190,250)	1,870,500	758,939	73	
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	100,000	54	(100,000)	0	100,000		
1.3.086.05.040.06 - YBM.1255: PEDESTRIAN/BIKE	16,665	1	0	0	1	16,664		
1.3.086.05.040.07 - YBM.1255: AUTOMOBILE BUS ACCE	1,542,725	1,542,725	3,000	0	1,542,725	0		
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	15,031,607	(212,434)	(281,891)	14,749,716	815,037		
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	3,354,050	525,950	45,625	3,399,675	308,750		
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	1,241,095	0	0	1,241,095	1		
<b>86 - YERBA BUENA MOSCONE STATION (YBM) CMODs</b>	<b>4,889,959</b>	<b>4,479,432</b>	<b>11,000</b>	<b>0</b>	<b>4,479,432</b>	<b>410,527</b>		
1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	466,470	466,470	10,000	0	466,470	0		
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	266,386	0	0	266,386	0	73	
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	3,570,282	3,159,755	1,000	0	3,159,755	410,527		
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	35,489	0	0	35,489	0		
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	0	0	0	0	0	0	73a	



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1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	10,110,042	0	0	0	0	10,110,042	74	
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	115,399,350	-14,287,573	4,731,647	120,130,997	19,858,003		
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	8,956,143	4,555	291,588	9,247,731	10,000		
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,723,552	16,542,952	186,300	83,000	16,625,952	97,600		
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	6,951,315	(128,876)	16,851	6,968,166	634,691		
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	14,700,152	9,528	34,788	14,734,940	2,729,106		
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	100,000	(95,403)	(100,000)	0	200,000	73	
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	0	(15,894)	0	0	50,000	73	
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	2,116,924	0	0	2,116,924	1		
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,896,832	13,845,367	1,000	21,000	13,866,367	30,464		
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	11,103,476	(16,428,448)	3,009,506	14,112,982	13,430,469		
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	3,798,419	0	0	3,798,419	664,949		
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	9,702,982	370,969	0	9,702,982	186,032		
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	5,049,688	1,099,778	97,922	5,147,610	952,065		
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	6,735,676	708,918	713,732	7,449,408	546,829		
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	1,729,962	0	563,260	2,293,222	321,364		
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	121,805,969	135,186,733	40,020,436	296,000	135,482,733	(13,676,764)		
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	1,472,227	5,663	0	1,472,227	10,095		
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,221	0	0	18,221	0		
1.3.087.89.040.07 - CMOD:STS.1256: AUTOMOBILE BUS ACCE	0	0	(9,300,000)	0	0	0		
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	124,730,194	120,131,479	49,314,773	296,000	120,427,479	4,302,715	74a	
1.3.087.89.050.01 - CMOD:STS.1256: TRAIN CONTROL	(17,776,769)	235,232	0	0	235,232	(18,012,001)		
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	17,587,360	17,587,360	0	0	17,587,360	0		
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	(19,152,467)	0	0	0	0	(19,152,467)	75	
88 - STATIONS CONTRACT 1300	2,435,063	1,856,861	97,151	399,832	2,256,693	178,370		
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	640,198	0	852,003	1,492,201	(61,607)		
1.3.088.06.080.04 - MTA Communications - Business Liaison to support CN1300 CON[68C	420,000	482,391	83,644	(145,848)	336,543	83,457		
1.3.088.06.080.04 - IT-CN1300 Installation [68CPT5441319.CPT5441319]	448,371	310,983	13,507	71,672	382,655	65,716		
1.3.088.06.080.04 - CN1300 Installation Maintenance [68CPT5441320.CPT5441320]	25,000	382,655	0	(377,996)	4,659	20,341		
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.PRMTSF:LEGAL; PERMITS	2,014,204	0	0	0	0	2,014,204		
144 - STARTUP	8,300,329	4,659	2,737	(599)	4,060	8,296,269		
1.3.144.01.080.08 - STRT: STARTUP (SFMTA Transit)	6,941,907	4,659	2,737	(599)	4,060	6,937,847		

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1.3.144.97.080.08 - STRTA: AC STARTUP ALLOC CONTIN	1,358,422	0			0	1,358,422		
151 - TEMPORARY LICENSE AGREEMENT	17,000	0	0	0	0	17,000		
1.3.151.01.080.06 - TEMP.LICPORARY LICENSE AGREEME	17,000	0	0	0	0	17,000		
170 - COMMUNICATIONS CONNECTIONS	10,599,579	2,899,593	12,920	0	2,899,593	7,699,986		
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	337,643	12,920	0	337,643	40,145		
1.3.170.01.050.05 - CSP Radio Procurement	3,822,212	1,920,000	0	0	1,920,000	1,902,212		
181 - AON RISK INSURANCE CS 163	26,803,757	26,792,944	0	0	26,792,944	10,813		
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	26,778,757	26,767,944	0	0	26,767,944	10,813		
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	0	0	366,130	5,033,871		
1.3.191.01.050.06 - FARE.CONSUM:FARE COLLECTION	5,400,000	366,130	0	0	366,130	5,033,871		
192 - THALES T&S CENTRAL CONTROL	28,921,326	12,000,389	0	1,000,000	13,000,389	15,920,937		
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	25,007,930	8,777,579	0	1,000,000	9,777,579	15,230,351		
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 UTILI LGHT FNDS	63,938	0	0	0	0	63,938		
203 - JOC2-029.0	53,317	0	0	0	0	53,317		
1.3.203.07.040.02 - JOC0292-029: RELOCATE VAULTS-S	53,317	0	0	0	0	53,317		
302 - PG&E	1,988,173	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		

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404 - DEPARTMENT OF BUILDING INSPECTION (DBI)	1,204,081	1,204,081	0	0	1,204,081	0		
1.3.404.01.080.06 - DPT OF BUILDING INSPECTION	1,204,081	1,204,081	0	0	1,204,081	0		
491 - FORM B - REIMBURSEMENT	(12,227,954)	0	0	0	0	(12,227,954)		
1.3.491.02.040.02 - FORMB - CONTRACT 1252 UTILITY REIMBUR	(254,050)	0	0	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>1,670,593,427</b>	<b>1,615,278,669</b>	<b>22,193,023</b>	<b>10,402,829</b>	<b>1,625,681,499</b>	<b>44,911,928</b>		
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES RFP [34B]	1,325,000	1,319,773	0	0	1,319,773	5,227		
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES PROJECT MGT [68E]	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	9,821,991	9,781,465	0	0	9,781,465	40,526		
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	0	0	0	0	0	0	26	
<b>TOTAL VEHICLES</b>	<b>12,000,000</b>	<b>11,929,247</b>	<b>0</b>	<b>0</b>	<b>11,929,247</b>	<b>70,753</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	55,200	7,042,824	(55,200)		
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>55,200</b>	<b>30,598,265</b>	<b>1,542,153</b>		
<b>90 - CONTINGENCY</b>		0	0	0	0	801,869		
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	801,869					801,869	84	
<b>TOTAL ALLOCATED CONTINGENCY</b>						0		
<b>TOTAL PROJECT COST</b>	<b>1,877,153,762</b>	<b>1,818,327,108</b>	<b>22,193,023</b>	<b>10,458,029</b>	<b>1,828,785,137</b>	<b>48,368,624</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.



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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. In October 2020, the project budget increased from \$1.601 billion to \$1.665 billion due to additional funding. In January 2021, the project budget increased from \$1.665 billion to \$1.691 billion due to additional funding. In February 2021, the project budget increased from \$1.691 billion to \$1.698 billion due to additional funding. In March 2021, the project budget increased from \$1.698 billion to \$1.806 billion due to additional funding. In April 2021, the project budget increased from \$1.806 billion to \$1.877 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. In January 2021, reduced the LRV budget by \$4.8M and moved to CN1300 STS contingency. The adjusted budget for LRV went from \$16.8M to \$12M.
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. In January 2021, moved \$200K from unprogrammed contingency to CN1300 STS contingency.</p>



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7.7 Budget Expenditures by SCC Codes	
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. In January 2021, received \$26M funding and increased the contingency for CN1300 STS station; lowered the LRV budget by \$4.8M and reduced the unprogrammed programmed contingency by \$200K and transferred the \$5M to increased the contingency for CN1300 STS. In February 2021, received \$6.6M funding and increased contingency for CN1300 STS station. In March 2021, received \$108,266,568 funding and increased budget for ATCS by \$1M, contingency for CN1300 CTS station by \$93,961,494, fully funded CSDG by \$3,556,243, fully funded HNTB by \$3,160,710, AECOM 2020 AWP by \$2,588,121 and AECOM 2021 AWP by \$3M and ODC by \$1M. In April 2021, received \$71,600,000 funding and increased budget for ATCS by \$8.5M, PM \$1M, CM \$1M, \$29.1M to CTS contingency and \$32M to STS contingency.</p>
7.9 Detail Monthly Expenditure Report	
Phase 1 Preliminary Engineering	
40	<p><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.</p>
Phase 2 Design Phase	
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]

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	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
46	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.
	1.2.071.01.080.02 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336
49	Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
	1.2.072.01.080.02 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609
50	COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
	1.2.073.01.080.02 - FD:FINAL DESIGN-DP3 [35CPT5441236.CPT5441236]: FAMIS: \$11,502,372 COST REPORT: \$11,432,312
51	COST TRANSFER: \$70,060 to 1.3.073.01.080.04 - CM: DP3 [35CPT5441236.CPT5441236]
<b>Phase 3 Construction Phase</b>	
	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
52	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]
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.

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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
84	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 & 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.



*Appendix B*

**DETAIL SCHEDULE REPORTS**

## **SCHEDULE HIGHLIGHTS**

The Master Project Schedule (MPS) below includes progress through April 2021. The April 2021 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 April 2021 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 approval. The project continues to evaluate this date with potential impact from COVID restrictions. The schedule team is assessing the risk with these issues and identifying potential mitigation to reduce the risk to the overall schedule.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources. 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 April 2021 schedule is used within the April Report. The SFMTA Contract 1300 April 2021 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. The SFMTA will

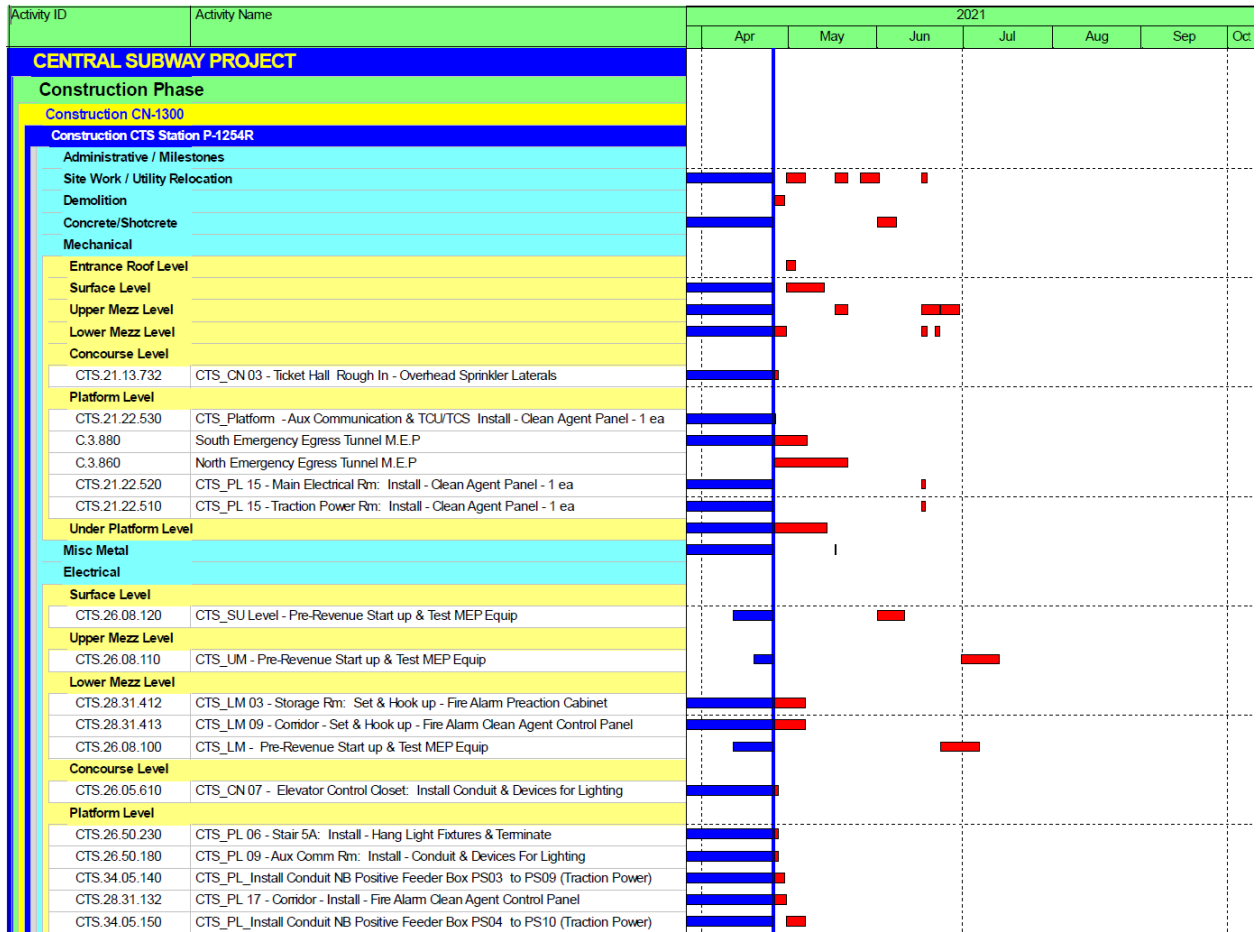
continue to use the SFMTA Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all SFMTA's scheduling concerns.

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

- Completed installing electrical and communication conduits at Station Agent Booth at Concourse level
- Continued terminating wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing plumbing at Plaza level
- Completed installing Elevators 1 and 2
- Continued installing Elevators 3 and 4
- Continued installing GFRC panels at Plaza level
- Continued testing board and panels, transformers, and lighting
- Continued installing GFRC panels along the Northern exterior wall
- Completed installing overhead signage along North/South Cavern Platform
- Continued testing Traction Power and Train Control components
- Continued Power and Lighting testing.
- Continued Fire Alarm /PA / Security System testing.
- Begin testing enclosed switches
- Begin testing circuit breakers
- Begin testing for FSS SCADA soft point
- Continued street work (minor), ongoing monitoring and surveying

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

- Complete terminating wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Complete installing plumbing at Plaza level
- Complete installing Elevators 3 and 4
- Complete installing GFRC panels at Plaza level
- Complete traction power conduit installation
- Begin installing Train Platform Kiosks
- Begin installing Kiosks at Concourse Ticketing Hall
- Complete testing board and panels, transformers, and lighting
- Complete testing Traction Power and Train Control components
- Complete Power and Lighting testing.
- Continue Fire Alarm /PA / Security System testing.
- Complete construction of PCC 50 Chinatown Plaza
- Continue testing electrical and mechanical components testing
- Begin commissioning electrical and mechanical systems
- Begin testing deluge piping system
- Continue testing enclosed switches
- Continue testing circuit breakers
- Continue testing for FSS SCADA soft point
- Continue 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:

- Began installation of drywall ESC, CMU wall and escalator side walls/cladding at north & south ends Platform level
- Began cleaning and adjustment of escalators
- Began installation of anti-graffiti film
- Continued installation of cabinets in the break room
- Continued painting traction power conduits at Platform level
- Continued painting conduits on north & south ends of the Platform
- Completed installation of lights in Elevators 1, 2 and 3
- Completed installation of FHC, stand pipes on exposed piles and adjustment/programming of art lights on Concourse level
- Completed installation of art, framing of kiosk and FHC, bench, traction conduits, traction pull boxes, OCS brackets and signage on Platform level
- Completed working on Station Agent Booth

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



Continued construction, installation and testing of the following items:

- Continue installation of FHCs
- Continue installation of traction power conduits and traction pull boxes
- Continue installation of side walls of escalators
- Continue painting of conduit on the Platform level
- Complete frame work for glass at escalators
- Complete installation of cabinets in the break room
- Continue application of anti-graffiti film
- Complete painting of walls in the train control HVAC Room

Activity ID		Activity Name		2021						
				Apr	May	Jun	Jul	Aug	Sep	Oct
<b>CENTRAL SUBWAY PROJECT</b>										
<b>Construction Phase</b>										
<b>Construction CN-1300</b>										
<b>Construction UMS Station P-1253</b>										
Administrative / Milestones										
Engineering & Procurement										
Drilled Shafts										
Masonry										
Mechanical										
Electrical										
Surface Level										
All Levels										
Concourse Level										
Intermediate Strut Level										
Mezzanine Level										
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.27.51.0320	UMS_PSL_Comm: SSFD & Emerg Phone System Wire Pulls - Platform Strut Level									
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 Lew									
UMS.26.24.3630	UMS_MZ_11 - Aux Elect Rm: Install Feeder Conduit - Elect Panel 3DHP4 To Esc 4-4									
UMS.26.24.4550	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHP4 To Esc 4-6									
UMS.34.05.0290	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-1 (Tra									
UMS.34.05.0330	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-4 (Tra									
UMS.34.05.0320	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-3 (Tra									
UMS.28.20.5050	UMS_MZ_Security: CCTV System Pull Wire & Terminate Cameras Mezzanine Level									
UMS.27.30.0090	UMS_MZ_Install: Comm: Telephone System Equipment Mezzanine Level									
<b>Platform Level</b>										
<b>Electrical - Transportation</b>										
<b>Mezzanine Level</b>										
UMS.34.21.1565	UMS_MZ_Install - Traction Power Pull Box PB-1 For NB Track - Sector 3									
UMS.34.21.1575	UMS_MZ_Install - Traction Power Pull Box PB-2 For SB - Track - Sector 3									
UMS.34.21.1375	UMS_MZ07 - Gap Breaker Rm: Install - Supervisory Panel SV1									
UMS.34.21.1435	UMS_MZ07 - Gap Breaker Rm: Install - Ground Test Station									
UMS.34.21.1465	UMS_MZ07 - Gap Breaker Rm: Install Lighting & Power Panel LP1									
UMS.34.21.1415	UMS_MZ07 - Gap Breaker Rm: Install Battery Station D01									
UMS.34.21.1365	UMS_MZ07 - Gap Breaker Rm: Install - Auxiliary Panel K02									
UMS.34.21.1585	UMS_MZ_Install - Traction Power Pull Box PB-3 For NB - Track - Sector 5									
UMS.34.21.1595	UMS_MZ_Install - Traction Power Pull Box PB-4 For SB Track - Sector 5									
UMS.34.05.0300	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-2 (Tra									
UMS.34.21.1385	UMS_MZ07 - Gap Breaker Rm: Install - Annuciator Panel K01									

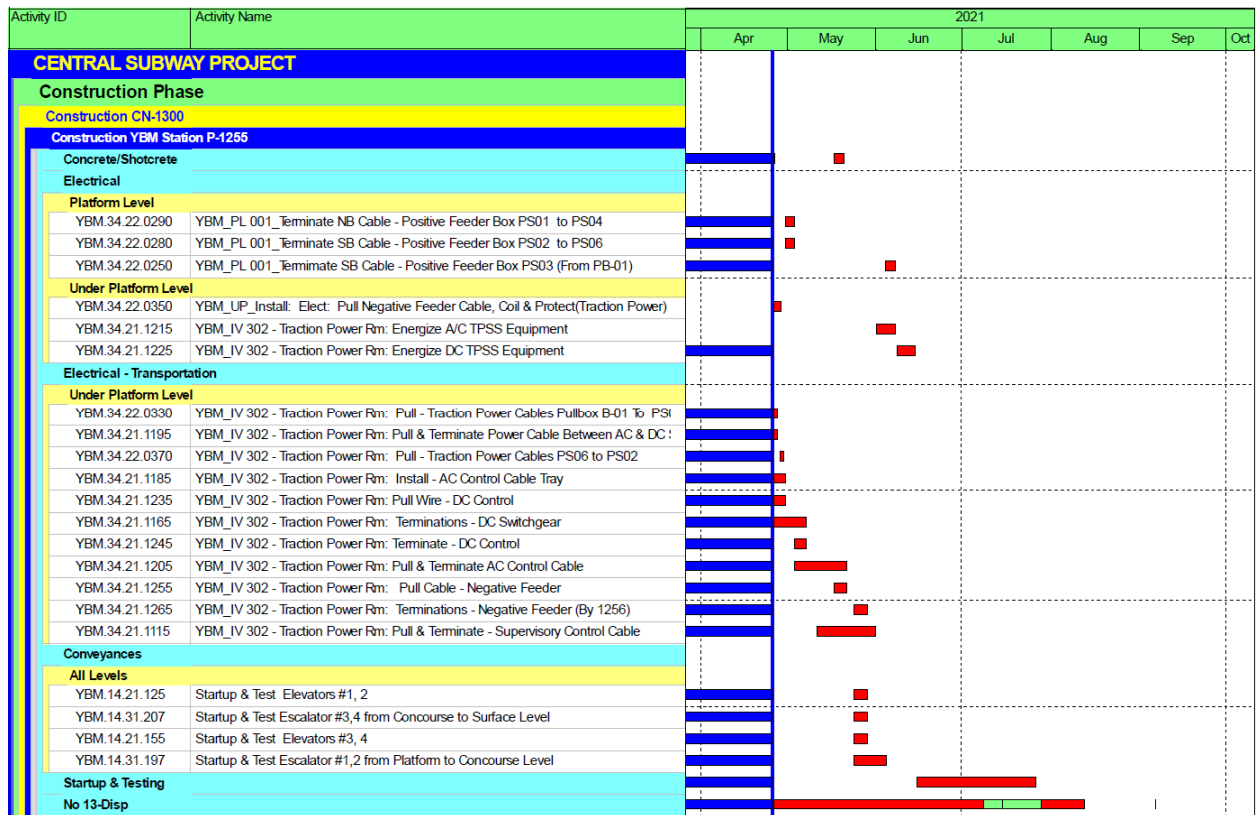
Work Package P-1255 (YBM) has performed the following work this month:

- Completed FA system with DBI

- Completed outlet test for kiosks at Concourse and Platform levels
- Completed low voltage transformers field quality control test
- Completed 60% of kiosk installation at Concourse
- Completed 75% kiosks installation at Platform level
- Completed CCTV testing (except CCTV at Elevators)
- Completed 95% metal cladding installation at Escalator 1 and 2
- Completed 90% metal cladding for Escalator 3
- Installed door sensor plates at Mezzanine level

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

- Complete installing handrails at ingress/egress Stair 8 & 9
- Complete interior finishes on Concourse level within Station Box
- Complete interior finishes on Mezzanine
- Complete installation of sculpture at Surface level
- Complete alignment and bolt down traction power gear and install bus duct at TP room
- Complete installation of Platform and Concourse kiosks
- Complete Station Agent Booth
- Complete traction power gear testing
- Complete traction power SCADA testing
- Complete SAB panel signoff
- Complete installing track lights at SAB
- Complete CCTV testing for elevators
- Deluge Spray Pattern demonstration with SFFD
- Heat Recovery Coils and Air Balance
- Complete metal cladding installation at Escalator 1 and 2
- Complete metal cladding installation at Escalator 3



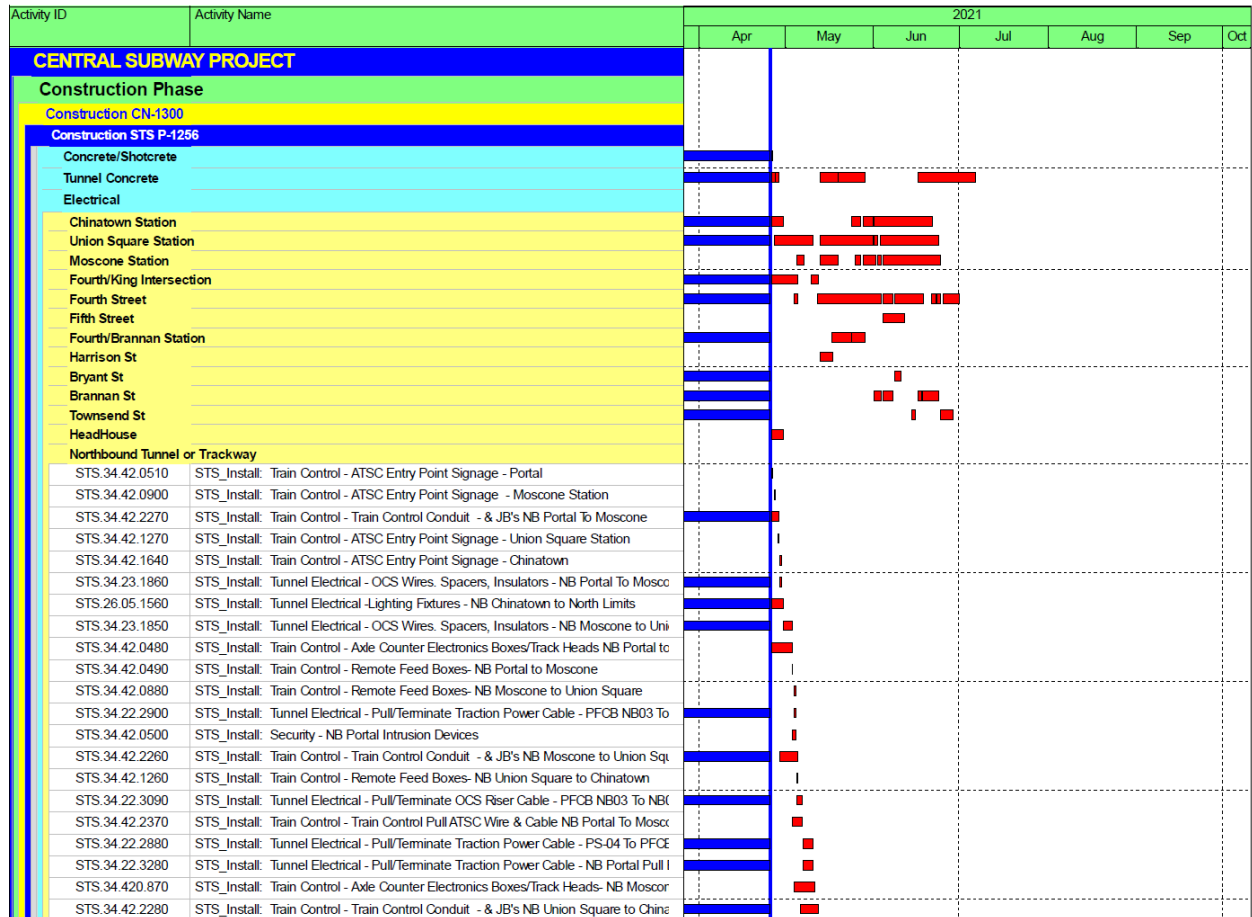
**Work Package P-1256 (STS) has performed the following work this month:**

- 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 support, riser, and wire installation throughout the tunnel and portal
- Continued fiber system installation and terminations in comm rooms (SFDT)
- Continued ATCS and radio system testing
- Completed FDC installation near 4<sup>th</sup> St. portal (except telephone)
- Started 4<sup>th</sup>/King OCS 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 power
- Continue traction power cable testing, installation and terminations
- Continue OCS support, riser, and wire installation
- Continue fiber system installation and terminations in comm rooms (SFDT)
- Continue ATCS and radio system testing

- Continue 4<sup>th</sup>/King OCS installation



**SCHEDULE REVISIONS**

The SFMTA Contract 1300 April 2021 schedule update was added this period to the Central Subway Project Master Schedule.

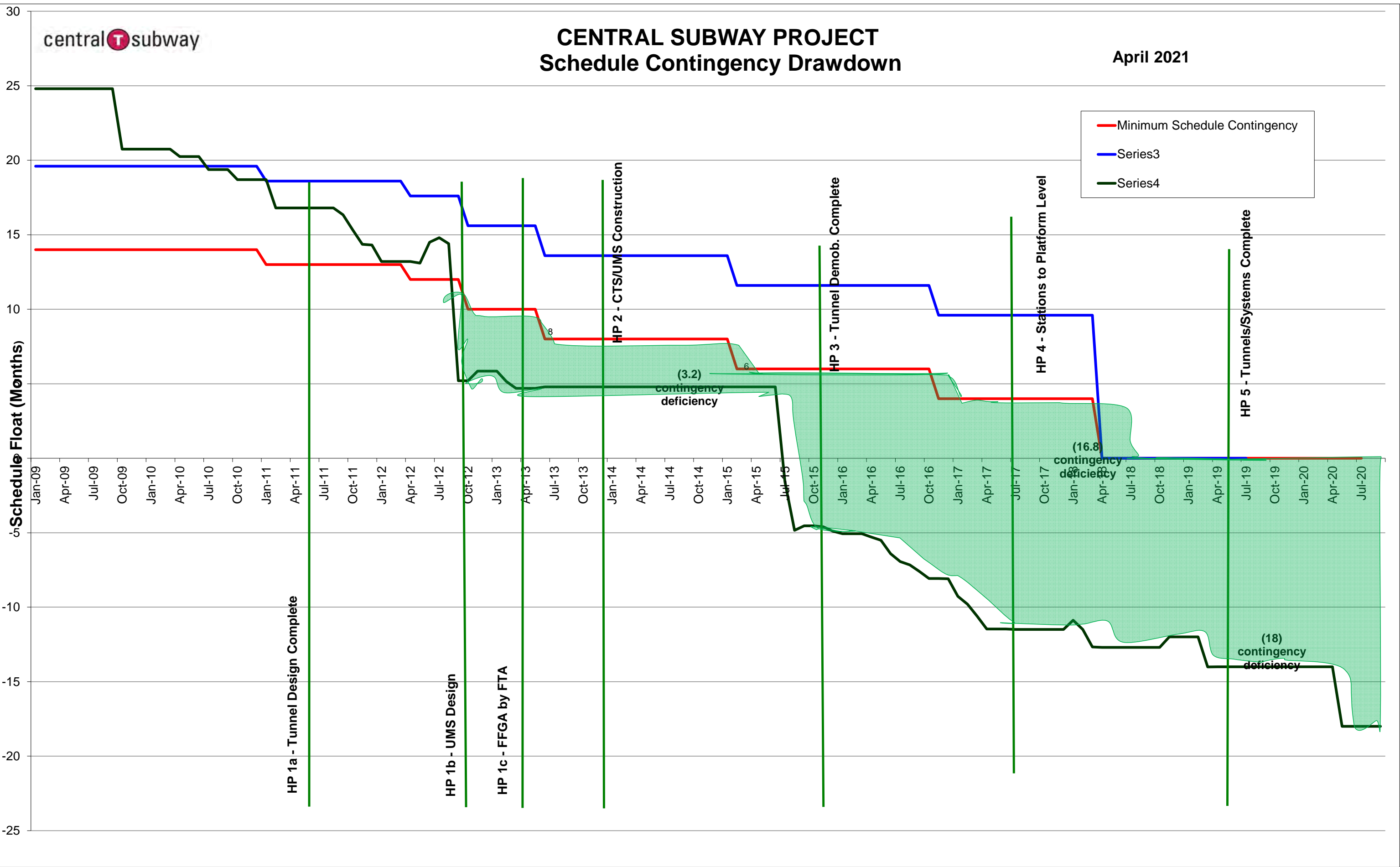
**LIST OF SCHEDULE REPORTS**

- 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

April 2021



Activity ID	Activity Name	Original Duration	Start	Finish	2021				2022				2023			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>CENTRAL SUBWAY PROJECT</b>		5167	03-Jun-03 A	26-Mar-23	CENTRAL SUBWAY PROJECT											
<b>Program Level Milestones</b>		5237	03-Jun-03 A	05-May-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		05-May-22*	◆ Baseline Finish Date: 12-26-2018											
MS0009	CSP Revenue Service Date	0		05-May-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>		3111	15-Apr-13 A	20-Oct-21	Light Rail Vehicles											
<b>Real Estate</b>		3130	01-Aug-08 A	02-Jan-14 A												
<b>Construction Phase</b>		3448	04-Jan-10 A	26-Mar-23	Construction Phase											
<b>Construction Support and Costs</b>		4095	04-Jan-10 A	26-Mar-23	Construction Support and Costs											
<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	26-Apr-21	Construction Tunnels CN-1252											
<b>Construction STS P-1256 ATCS</b>		1825	20-May-14 A	16-Sep-21	Construction STS P-1256 ATCS											
<b>Construction STS P-XXXX Radio</b>		195	27-Aug-19 A	13-Aug-21	Construction STS P-XXXX Radio											
<b>Construction CN-1300</b>		2207	03-Jun-13 A	17-Dec-21	Construction CN-1300											
<b>CN- 1300 Milestone</b>		2207	17-Jun-13 A	02-Dec-21	CN- 1300 Milestone											
<b>Construction UMS Station P-1253</b>		2160	17-Jun-13 A	28-Sep-21	Construction UMS Station P-1253											
<b>Construction CTS Station P-1254R</b>		2143	17-Jun-13 A	04-Sep-21	Construction CTS Station P-1254R											
<b>Construction YBM Station P-1255</b>		2144	10-Jun-13 A	06-Sep-21	Construction YBM Station P-1255											
<b>Construction STS P-1256</b>		2143	03-Jun-13 A	17-Dec-21	Construction STS P-1256											
<b>Project Start Up</b>		243	03-Sep-21	05-May-22	Project Start Up											
<b>Unallocated Contingency</b>		260	26-Apr-21	04-May-22	Unallocated Contingency											

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022				2023	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>Program Level Milestones</b>															
MS0019	Baseline Finish Date: 12-26-2018	0		05-May-22*	-486										
MS0009	CSP Revenue Service Date	0		05-May-22*	-486										
<b>CN- 1300 Milestone</b>															
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0	03-Sep-21	03-Sep-21	-707										
<b>Construction STS P-1256</b>															
STS.34.23.1800	STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal	3	26-Feb-21 A	26-Apr-21	-501										
STS.34.23.1790	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - In NB Portal	1	03-Mar-21 A	27-Apr-21	-501										
STS.34.23.1970	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - In NB Portal	5	03-Mar-21 A	27-Apr-21	-501										
STS.34.23.1830	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - In NB Portal	4	10-Mar-21 A	28-Apr-21	-501										
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Portal To Moscor	4	16-Mar-21 A	29-Apr-21	-501										
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Moscone to Union	6	01-Mar-21 A	03-May-21	-501										
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To N	8	04-May-20 A	04-May-21	-501										
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01	2	09-Nov-20 A	06-May-21	-501										
STS.34.22.2880	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB I	2	03-Aug-20 A	10-May-21	-501										
STS.34.22.2890	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11 To N	8	11-May-20 A	12-May-21	-501										
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB I	1	22-Mar-21 A	13-May-21	-501										
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To N	7	04-May-20 A	14-May-21	-501										
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04	3	08-Dec-20 A	18-May-21	-501										
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10	1	15-Mar-21 A	19-May-21	-501										
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06	1	08-Mar-21 A	20-May-21	-501										
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To N	15	08-Jun-20 A	20-May-21	-501										
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To F	2	15-Mar-21 A	21-May-21	-501										
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB I	2	05-Oct-20 A	24-May-21	-501										
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18	1	01-Feb-21 A	25-May-21	-501										
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12	3	14-Dec-20 A	26-May-21	-501										
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-0	1	07-Dec-20 A	27-May-21	-501										
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To F	2	05-Oct-20 A	28-May-21	-501										
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-0	1	04-Jan-21 A	31-May-21	-501										
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	01-Jun-21	-501										
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Sc	13	01-Jun-21	17-Jun-21	-501										
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chir	14	18-Jun-21	07-Jul-21	-501										
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North L	2	08-Jul-21	09-Jul-21	-501										
STS.34.42.425	Startup & Testing - Tunnel & ATSC Systems	40	12-Jul-21	03-Sep-21	-501										
<b>Project Start Up</b>															
STU1010	S&S Certification / Pre-Revenue Activities	167	03-Sep-21	04-May-22	-486										
BUF0018	Muni Float	0	05-May-22	05-May-22	-486										

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019				2020				2021				2022				2023	
				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	Q3	Q4	Q1	Q2								
<b>CENTRAL SUBWAY PROJECT</b>	2735	08-Jun-11 A	17-Dec-21																																														
<b>Construction Phase</b>	2735	08-Jun-11 A	17-Dec-21																																														
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																																														
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																																														
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>	2207	03-Jun-13 A	17-Dec-21																																														
CN- 1300 Milestone	2207	17-Jun-13 A	02-Dec-21																																														
Construction UMS Station P-1253	2160	17-Jun-13 A	28-Sep-21																																														
Construction CTS Station P-1254R	2143	17-Jun-13 A	04-Sep-21																																														
Construction YBM Station P-1255	2144	10-Jun-13 A	06-Sep-21																																														
Construction STS P-1256	2143	03-Jun-13 A	17-Dec-21																																														



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022
						Q1	Q2	Q3	Q4	Q1
<b>CENTRAL SUBWAY PROJECT</b>										
<b>Light Rail Vehicles</b>										
<b>Construction Phase</b>										
<b>Construction Support and Costs</b>										
<b>Construction STS P-1256 ATCS</b>										
<b>Construction CN-1300</b>										
<b>CN- 1300 Milestone</b>										
<b>No 13-Disp</b>										
<b>Construction UMS Station P-1253</b>										
<b>Mechanical</b>										
<b>Electrical</b>										
<b>Electrical - Transportation</b>										
<b>Station Platform Footprint (Between Headwalls)</b>										
UMS.34.21.1565	UMS_MZ: Install - Traction Power Pull Box PB-1 For NB Track - Sector 3	3	28-Dec-20 A	28-Apr-21	-468					UMS_MZ: Install - Traction Power Pull Box PB-1 For NB Track - Sector 3
UMS.34.21.1375	UMS_MZ07 - Gap Breaker Rm: Install - Supervisory Panel SV1	5	27-Apr-21	03-May-21	-457					UMS_MZ07 - Gap Breaker Rm: Install - Supervisory Panel SV1
UMS.34.21.1435	UMS_MZ07 - Gap Breaker Rm: Install - Ground Test Station	5	29-Mar-18 A	03-May-21	-468					UMS_MZ07 - Gap Breaker Rm: Install - Ground Test Station
UMS.34.21.1465	UMS_MZ07 - Gap Breaker Rm: Install Lighting & Power Panel LP1	5	29-Mar-18 A	03-May-21	-471					UMS_MZ07 - Gap Breaker Rm: Install Lighting & Power Panel LP1
UMS.34.21.1415	UMS_MZ07 - Gap Breaker Rm: Install Battery Station D01	5	29-Mar-18 A	03-May-21	-457					UMS_MZ07 - Gap Breaker Rm: Install Battery Station D01
UMS.34.21.1365	UMS_MZ07 - Gap Breaker Rm: Install - Auxiliary Panel K02	5	29-Mar-18 A	03-May-21	-471					UMS_MZ07 - Gap Breaker Rm: Install - Auxiliary Panel K02
UMS.34.21.1315	UMS_PL: Install - Traction Power Connection Box PS01 @ NB Track - Sector 3	3	26-Oct-20 A	04-May-21	-478					UMS_PL: Install - Traction Power Connection Box PS01 @ NB Track - Sector 3
UMS.34.22.0400	UMS_UP_ Elect: Pull Negative Feeder Cable, Coil & Protect(Traction Power)	3	26-Oct-20 A	07-May-21	-461					UMS_UP_ Elect: Pull Negative Feeder Cable, Coil & Protect(Traction Power)
UMS.34.05.0300	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-2 (Traction Power)	5	12-Feb-21 A	07-May-21	-465					UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-2 (Traction Power)
UMS.34.21.1305	UMS_PL: Install - Traction Power Connection Box PS03 @ SB Track - Sector 3	3	29-Dec-20 A	07-May-21	-478					UMS_PL: Install - Traction Power Connection Box PS03 @ SB Track - Sector 3
UMS.34.21.1385	UMS_MZ07 - Gap Breaker Rm: Install - Annunciator Panel K01	5	04-May-21	10-May-21	-462					UMS_MZ07 - Gap Breaker Rm: Install - Annunciator Panel K01
UMS.34.21.1395	UMS_MZ07 - Gap Breaker Rm: Install - Control Wiring Wireway	5	04-May-21	10-May-21	-471					UMS_MZ07 - Gap Breaker Rm: Install - Control Wiring Wireway
UMS.34.21.1475	UMS_MZ07 - Gap Breaker Rm: Install Security Panel SE01	5	04-May-21	10-May-21	-468					UMS_MZ07 - Gap Breaker Rm: Install Security Panel SE01
UMS.34.21.1325	UMS_PL: Install - Traction Power Connection Box PS02 @ SB Track - Sector 3	3	01-Jan-21 A	12-May-21	-478					UMS_PL: Install - Traction Power Connection Box PS02 @ SB Track - Sector 3
UMS.34.21.1635	UMS_MZ07 - Gap Breaker Rm: Install Conduit Security Panel SE01 To DS1, DS2, DS3, & Security Bell	2	11-May-21	12-May-21	-468					UMS_MZ07 - Gap Breaker Rm: Install Conduit Security Panel SE01 To DS1, DS2, DS3, & Security Bell
UMS.34.22.0410	UMS_PL - Pull - Traction Power Cables Pullbox PB-1 To PS01	2	23-Mar-21 A	13-May-21	-467					UMS_PL - Pull - Traction Power Cables Pullbox PB-1 To PS01
UMS.34.05.0370	UMS_MZ Install Conduit Riser PB-4 to Feeder Box PS06 (Traction Power)	5	20-Jan-21 A	14-May-21	-470					UMS_MZ Install Conduit Riser PB-4 to Feeder Box PS06 (Traction Power)
UMS.34.21.1645	UMS_MZ07 - Gap Breaker Rm: Pull Wire Security Panel SE01 To DS1, DS2, DS3, & Security Bell	2	13-May-21	14-May-21	-468					UMS_MZ07 - Gap Breaker Rm: Pull Wire Security Panel SE01 To DS1, DS2, DS3, & Security Bell
UMS.34.21.1655	UMS_MZ07 - Gap Breaker Rm: Terminate Security Panel SE01 To DS1, DS2, DS3, & Security Bell	1	17-May-21	17-May-21	-468					UMS_MZ07 - Gap Breaker Rm: Terminate Security Panel SE01 To DS1, DS2, DS3, & Security Bell
UMS.34.21.1665	UMS_MZ07 - Gap Breaker Rm: Energize Security Panelboard	1	18-May-21	18-May-21	-468					UMS_MZ07 - Gap Breaker Rm: Energize Security Panelboard
UMS.34.22.0480	UMS_PL - Pull - Traction Power Cables Pullbox PB-4 To PS06	2	23-Mar-21 A	18-May-21	-470					UMS_PL - Pull - Traction Power Cables Pullbox PB-4 To PS06
UMS.34.21.1355	UMS_PL: Install - Traction Power Connection Box PS04 @ NB Track - Sector 5	5	13-Nov-20 A	19-May-21	-478					UMS_PL: Install - Traction Power Connection Box PS04 @ NB Track - Sector 5
UMS.34.05.0350	UMS_MZ Install Conduit Riser PB-2 to SB Feeder Box To PS02 & PS03 (Traction Power)	5	06-Jan-21 A	19-May-21	-473					UMS_MZ Install Conduit Riser PB-2 to SB Feeder Box To PS02 & PS03 (Traction Power)
UMS.34.21.1345	UMS_PL: Install - Traction Power Connection Box PS06 @ SB Track - Sector 5	5	14-Jan-21 A	19-May-21	-476					UMS_PL: Install - Traction Power Connection Box PS06 @ SB Track - Sector 5
UMS.34.21.1335	UMS_PL: Install - Traction Power Connection Box PS05 @ NB Track - Sector 5	5	06-Nov-20 A	19-May-21	-478					UMS_PL: Install - Traction Power Connection Box PS05 @ NB Track - Sector 5
UMS.34.22.0500	UMS_PL - Pull - Traction Power Cables PS01 to PS05	2	05-Mar-21 A	19-May-21	-471					UMS_PL - Pull - Traction Power Cables PS01 to PS05
UMS.34.21.1405	UMS_MZ07 - Gap Breaker Rm: Pull & Terminate - Control Cables	9	11-May-21	21-May-21	-471					UMS_MZ07 - Gap Breaker Rm: Pull & Terminate - Control Cables
UMS.34.22.0420	UMS_PL - Pull - Traction Power Cables Pullbox PB-2 To PS02	2	23-Mar-21 A	21-May-21	-473					UMS_PL - Pull - Traction Power Cables Pullbox PB-2 To PS02
UMS.34.05.0360	UMS_MZ Install Conduit Riser PB-3 to Feeder Box PS04 & PS05 (Traction Power)	5	14-Jan-21 A	26-May-21	-478					UMS_MZ Install Conduit Riser PB-3 to Feeder Box PS04 & PS05 (Traction Power)
UMS.34.22.0460	UMS_PL - Pull - Traction Power Cables PS06 to PS03	2	09-Mar-21 A	26-May-21	-476					UMS_PL - Pull - Traction Power Cables PS06 to PS03
UMS.34.22.0440	UMS_PL - Pull - Traction Power Cables Pullbox PB-3 To PS04	2	15-Mar-21 A	28-May-21	-478					UMS_PL - Pull - Traction Power Cables Pullbox PB-3 To PS04
UMS.34.21.1445	UMS_MZ07 - Gap Breaker Rm: Terminations - WFO-1&2	9	08-Mar-21 A	01-Jun-21	-478					UMS_MZ07 - Gap Breaker Rm: Terminations - WFO-1&2
UMS.34.21.1545	UMS_MZ07 - Gap Breaker Rm: Energize Gap Breaker Equipment	5	15-Mar-21 A	03-Jun-21	-478					UMS_MZ07 - Gap Breaker Rm: Energize Gap Breaker Equipment
UMS.34.21.1625	UMS_MZ07 - Gap Breaker Rm: Test Traction Power Systems	15	01-Mar-21 A	08-Jun-21	-478					UMS_MZ07 - Gap Breaker Rm: Test Traction Power Systems
<b>Conveyances</b>										
<b>Union Square Garage</b>										



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022
						Q1	Q2	Q3	Q4	Q1
UMS.14.24.0350	UMS_Test & Inspect - Elevator 1	5	07-Dec-20 A	11-Jun-21	-476					
UMS.14.24.0360	UMS_Test & Inspect - Elevator 2	5	07-Dec-20 A	11-Jun-21	-476					
<b>Station Platform Footprint (Between Headwalls)</b>		300	07-Apr-20 A	18-Jun-21	-446					
UMS.14.31.9930	UMS_Inspect & Test Escalator 1 - North Entrance	5	07-Apr-20 A	30-Apr-21	-411					
UMS.14.21.0180	Test & Inspect - Platform Level Elevator 3	5	07-Dec-20 A	14-Jun-21	-477					
UMS.14.31.9900	UMS_Test & Inspect Platform Level Escalators 2 & 3	10	05-Apr-21 A	18-Jun-21	-446					
UMS.14.31.9910	UMS_Test & Inspect Platform Level Escalators 4,5 & 6	10	13-Jul-20 A	18-Jun-21	-446					
<b>South Entrance (Ellis)</b>		5	26-Mar-20 A	30-Apr-21	-411					
UMS.14.31.9920	UMS_Inspect & Test South Entrance Escalators 7 & 8	5	26-Mar-20 A	30-Apr-21	-411					
<b>Startup &amp; Testing</b>		40	16-Jun-21	10-Aug-21	-483					
<b>No 13-Disp</b>		1922	09-Jan-14 A	03-Sep-21	64					
<b>Construction CTS Station P-1254R</b>		1955	10-Jul-14 A	03-Sep-21	64					
<b>Site Work / Utility Relocation</b>		419	16-Sep-19 A	18-Jun-21	-446					
<b>Concrete/Shotcrete</b>		5	06-Jul-20 A	07-Jun-21	-437					
<b>Mechanical</b>		315	06-Jan-20 A	29-Jun-21	-453					
<b>No 13-Location</b>		315	06-Jan-20 A	29-Jun-21	-453					
CTS.21.22.530	CTS_Platform - Aux Communication & TCU/TCS Install - Clean Agent Panel - 1 ea	1	27-Apr-20 A	26-Apr-21	-437					
CTS.26.05.565	CTS_LM 13 - Elevator Closet: Install - Elevator Controller	5	26-Apr-21	30-Apr-21	-441					
CTS.21.12.200	CTS_SU 07 - Valve Rm: Install - DSP,TSP, SM Piping & Valves	10	10-Aug-20 A	13-May-21	-458					
CTS.21.22.520	CTS_PL 15 - Main Electrical Rm: Install - Clean Agent Panel - 1 ea	2	28-Apr-20 A	17-Jun-21	-445					
CTS.21.22.510	CTS_PL 15 - Traction Power Rm: Install - Clean Agent Panel - 1 ea	2	21-May-20 A	17-Jun-21	-485					
CTS.21.22.581	CTS_LM 01 - Communications Equip Rm: Install - Clean Agent Tanks - 2 ea	3	07-Jan-20 A	18-Jun-21	-463					
CTS.21.22.582	CTS_LM 01 - Communications Equip Rm: Install - Clean Agent Panel - 1 ea	2	10-Jan-20 A	22-Jun-21	-463					
CTS.21.13.150	CTS_UM Install:Sprinkler Mains - Upper Mezz Level	5	06-Jan-20 A	22-Jun-21	-478					
CTS.21.13.722	CTS_UM Install:Sprinkler Branches & Drops - Upper Mezz Level	5	16-Mar-20 A	29-Jun-21	-478					
<b>Electrical</b>		330	27-Feb-20 A	13-Jul-21	-468					
<b>No 13-Location</b>		330	27-Feb-20 A	13-Jul-21	-468					
CTS.28.31.132	CTS_PL 17 - Corridor - Install - Fire Alarm Clean Agent Control Panel	5	28-Feb-20 A	30-Apr-21	-474					
CTS.28.31.412	CTS_LM 03 - Storage Rm: Set & Hook up - Fire Alarm Preaction Cabinet	9	27-Feb-20 A	06-May-21	-430					
CTS.28.31.413	CTS_LM 09 - Corridor - Set & Hook up - Fire Alarm Clean Agent Control Panel	9	27-Feb-20 A	06-May-21	-430					
CTS.28.31.133	CTS_PL 17 - Corridor - Install - Fire Alarm Preaction Cabinet	5	06-Mar-20 A	07-May-21	-474					
CTS.26.24.925	CTS_PL 21 - Aux Elect Rm: Energize Panels - Sector 3	1	19-Apr-21 A	31-May-21	-477					
CTS.26.08.120	CTS_SU Level - Pre-Revenue Start up & Test MEP Equip	8	12-Apr-21 A	10-Jun-21	-470					
CTS.26.08.100	CTS_LM - Pre-Revenue Start up & Test MEP Equip	10	12-Apr-21 A	06-Jul-21	-463					
CTS.26.08.110	CTS_UM - Pre-Revenue Start up & Test MEP Equip	10	19-Apr-21 A	13-Jul-21	-478					
<b>Architectural Finishes</b>		556	06-May-19 A	09-Jul-21	-461					
<b>Conveyances</b>		285	20-Apr-20 A	21-Jun-21	-477					
<b>HeadHouse</b>		264	20-Apr-20 A	18-Jun-21	-476					
CTS.14.31.505	Startup & Inspect Escalators 3&4 (Concourse to Upper Mezz)	5	17-May-21	21-May-21	-451					
CTS.14.21.245	Install Traction Elevator #3 (Platform Level to Surface)	40	20-Apr-20 A	18-Jun-21	-476					
CTS.14.21.385	CTS_CN 03 Install Traction Elevator #4 (Concourse Level to Surface)	40	20-Apr-20 A	18-Jun-21	-476					
<b>Cross Cut Cavern</b>		26	17-May-21	21-Jun-21	-477					
CTS.14.31.445	CTS_PL_Start-Up & Test Escalators 1&2	5	17-May-21	21-May-21	-451					
CTS.14.24.295	CTS-PL 05:Inspections - Elevators 1&2	1	16-Jun-21	16-Jun-21	-473					
CTS.14.24.285	CTS-PL 05: Startup & Test Elevators 1&2	4	16-Jun-21	21-Jun-21	-473					
<b>Startup &amp; Testing</b>		30	01-Mar-21 A	10-Aug-21	-483					
<b>No 13-Disp</b>		1926	10-Jul-14 A	03-Sep-21	64					
<b>Construction YBM Station P-1255</b>		1960	10-Jul-14 A	03-Sep-21	64					
<b>Electrical</b>		191	09-Sep-20 A	14-Jun-21	-487					
<b>Electrical - Transportation</b>		151	07-Sep-20 A	31-May-21	-477					
<b>HeadHouse</b>		151	07-Sep-20 A	28-May-21	-476					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022
						Q1	Q2	Q3	Q4	Q1
YBM.34.21.1195	YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear	2	03-Mar-21 A	27-Apr-21	-458					
YBM.34.22.0370	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02	2	07-Sep-20 A	29-Apr-21	-457					
YBM.34.21.1185	YBM_IV 302 - Traction Power Rm: Install - AC Control Cable Tray	5	28-Jan-21 A	30-Apr-21	-476					
YBM.34.21.1235	YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control	5	08-Mar-21 A	30-Apr-21	-461					
YBM.34.21.1165	YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear	10	02-Mar-21 A	07-May-21	-461					
YBM.34.21.1245	YBM_IV 302 - Traction Power Rm: Terminate - DC Control	5	15-Mar-21 A	07-May-21	-461					
YBM.34.21.1205	YBM_IV 302 - Traction Power Rm: Pull & Terminate AC Control Cable	15	08-Mar-21 A	21-May-21	-476					
YBM.34.21.1255	YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder	5	09-Mar-21 A	21-May-21	-476					
YBM.34.21.1265	YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)	5	16-Mar-21 A	28-May-21	-476					
<b>No 13-Location</b>		<b>15</b>	<b>05-Mar-21 A</b>	<b>31-May-21</b>	<b>-482</b>					
YBM.34.21.1115	YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable	15	05-Mar-21 A	31-May-21	-482					
<b>Conveyances</b>		<b>145</b>	<b>13-Apr-20 A</b>	<b>04-Jun-21</b>	<b>-466</b>					
<b>HeadHouse</b>		<b>145</b>	<b>13-Apr-20 A</b>	<b>04-Jun-21</b>	<b>-466</b>					
YBM.14.21.125	Startup & Test Elevators #1, 2	5	13-Apr-20 A	28-May-21	-461					
YBM.14.31.207	Startup & Test Escalator #3,4 from Concourse to Surface Level	5	05-Oct-20 A	28-May-21	-461					
YBM.14.21.155	Startup & Test Elevators #3, 4	5	26-Nov-20 A	28-May-21	-461					
YBM.14.31.197	Startup & Test Escalator #1,2 from Platform to Concourse Level	10	01-Oct-20 A	04-Jun-21	-466					
<b>Startup &amp; Testing</b>		<b>40</b>	<b>21-Dec-20 A</b>	<b>26-Jul-21</b>	<b>-472</b>					
<b>No 13-Disp</b>		<b>1960</b>	<b>10-Jul-14 A</b>	<b>03-Sep-21</b>	<b>64</b>					
<b>Construction STS P-1256</b>		<b>1867</b>	<b>13-Jan-14 A</b>	<b>03-Sep-21</b>	<b>64</b>					
<b>Tunnel Concrete</b>		<b>366</b>	<b>17-Jul-18 A</b>	<b>28-Apr-21</b>	<b>-449</b>					
<b>Electrical</b>		<b>1228</b>	<b>14-May-14 A</b>	<b>28-Jul-21</b>	<b>91</b>					
<b>Chinatown Station</b>		<b>82</b>	<b>26-Feb-21 A</b>	<b>21-Jun-21</b>	<b>-487</b>					
<b>Union Square Station</b>		<b>42</b>	<b>27-Apr-21</b>	<b>23-Jun-21</b>	<b>-489</b>					
<b>Moscone Station</b>		<b>37</b>	<b>05-May-21</b>	<b>24-Jun-21</b>	<b>-450</b>					
<b>Fourth/King Intersection</b>		<b>293</b>	<b>26-Feb-20 A</b>	<b>12-May-21</b>	<b>-459</b>					
<b>Fourth Street</b>		<b>956</b>	<b>17-Apr-17 A</b>	<b>30-Jun-21</b>	<b>-458</b>					
<b>Fifth Street</b>		<b>6</b>	<b>04-Jun-21</b>	<b>11-Jun-21</b>	<b>-492</b>					
<b>Fourth/Brannan Station</b>		<b>688</b>	<b>19-Feb-18 A</b>	<b>28-May-21</b>	<b>-446</b>					
<b>Harrison St</b>		<b>3</b>	<b>13-May-21</b>	<b>17-May-21</b>	<b>-485</b>					
<b>Bryant St</b>		<b>6</b>	<b>07-Jan-19 A</b>	<b>10-Jun-21</b>	<b>-485</b>					
<b>Brannan St</b>		<b>696</b>	<b>19-Jun-17 A</b>	<b>23-Jun-21</b>	<b>-497</b>					
<b>Townsend St</b>		<b>39</b>	<b>30-Dec-19 A</b>	<b>28-Jun-21</b>	<b>-492</b>					
<b>Northbound Tunnel or Trackway</b>		<b>1215</b>	<b>20-Apr-16 A</b>	<b>09-Jul-21</b>	<b>-506</b>					
STS.34.42.0510	STS_Install: Train Control - ATSC Entry Point Signage - Portal	1	26-Apr-21	26-Apr-21	-450					
STS.34.42.0900	STS_Install: Train Control - ATSC Entry Point Signage - Moscone Station	1	27-Apr-21	27-Apr-21	-450					
STS.34.42.2270	STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone	4	20-Mar-17 A	28-Apr-21	-483					
STS.34.42.1270	STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station	1	28-Apr-21	28-Apr-21	-450					
STS.34.42.1640	STS_Install: Train Control - ATSC Entry Point Signage - Chinatown	1	29-Apr-21	29-Apr-21	-450					
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Portal To Moscone	4	16-Mar-21 A	29-Apr-21	-501					
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Moscone to Union Square	6	01-Mar-21 A	03-May-21	-501					
STS.34.42.0480	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to Moscone	6	26-Apr-21	03-May-21	-465					
STS.34.42.0490	STS_Install: Train Control - Remote Feed Boxes- NB Portal to Moscone	1	03-May-21	03-May-21	-455					
STS.34.42.0880	STS_Install: Train Control - Remote Feed Boxes- NB Moscone to Union Square	1	04-May-21	04-May-21	-455					
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box	8	04-May-20 A	04-May-21	-501					
STS.34.42.0500	STS_Install: Security - NB Portal Intrusion Devices	2	03-May-21	04-May-21	-476					
STS.34.42.2260	STS_Install: Train Control - Train Control Conduit - & JB's NB Moscone to Union Square	13	12-Mar-18 A	05-May-21	-483					
STS.34.42.1260	STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown	1	05-May-21	05-May-21	-455					
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box	2	09-Nov-20 A	06-May-21	-501					
STS.34.42.2370	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone	4	03-May-21	06-May-21	-484					
STS.34.22.2880	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB NB11 - UMS South Platform	2	03-Aug-20 A	10-May-21	-501					
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890	5	18-Mar-21 A	10-May-21	-499					

**SFMTA Central Subway Project**  
**Master Project Schedule**  
**One Month Back & Remaining Work - April 2021 Update**

**Required Revenue Service Date 26-Dec-18**  
**Data Date: 26-Apr-21**



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022
						Q1	Q2	Q3	Q4	Q1
STS.34.420.870	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscone to Union Squ	6	04-May-21	11-May-21	-465					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscone to Union Square
STS.34.42.2280	STS_Install: Train Control - Train Control Conduit - & JB's NB Union Square to Chinatown	14	20-Apr-16 A	12-May-21	-479					STS_Install: Train Control - Train Control Conduit - & JB's NB Union Square to Chinatown
STS.34.22.2890	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11 To NB04 - UMS To	8	11-May-20 A	12-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11 To NB04 - UMS To MOS (Ckt FO
STS.34.42.0410	STS_Install: Train Control - Train Control Signals - NB Portal to Moscone	6	05-May-21	12-May-21	-476					STS_Install: Train Control - Train Control Signals - NB Portal to Moscone
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS	1	22-Mar-21 A	13-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS South Platfo
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS To	7	04-May-20 A	14-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS To MOS (Ckt V
STS.26.05.2000	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limits	2	13-May-21	14-May-21	-463					STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limits
STS.26.05.3790	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Union Square	5	10-May-21	14-May-21	-461					STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Union Square to Chinatown
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	18-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MOS (Ckt FO
STS.26.05.3800	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to	2	17-May-21	18-May-21	-463					STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limit
STS.34.42.1250	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Union Square to Chinat	6	11-May-21	19-May-21	-465					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Union Square to Chinatown
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS Sour	1	15-Mar-21 A	19-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS South Platform
STS.34.42.2250	STS_Install: Train Control - Train Control Conduit - & JB's NB Chinatown to North Limits	5	13-May-21	19-May-21	-466					STS_Install: Train Control - Train Control Conduit - & JB's NB Chinatown to North Limits
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MC	1	08-Mar-21 A	20-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MOS (Ckt WA
STS.34.42.0790	STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square	6	13-May-21	20-May-21	-476					STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS To	15	08-Jun-20 A	20-May-21	-501					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 PS-01 - UMS	2	15-Mar-21 A	21-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS North Pla
STS.34.42.1620	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Chinatown to North Limi	1	24-May-21	24-May-21	-467					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Chinatown to North Limits
STS.34.42.1630	STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits	1	24-May-21	24-May-21	-467					STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits
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	24-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS South Pla
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS South	1	01-Feb-21 A	25-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS South Platform
STS.34.42.0520	STS_Install: Train Control - NB Switch Machines @ Chinatown Crossover	2	19-Aug-19 A	25-May-21	-468					STS_Install: Train Control - NB Switch Machines @ Chinatown Crossover
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To UM	3	14-Dec-20 A	26-May-21	-501					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 - UMS Nort	1	07-Dec-20 A	27-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS North Platfo
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - China	2	05-Oct-20 A	28-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - Chinatown to
STS.28.20.1720	STS_Install: Tunnel Electrical - CCTV Cameras - NB Portal To Moscone	2	26-Feb-21 A	28-May-21	-485					STS_Install: Tunnel Electrical - CCTV Cameras - NB Portal To Moscone
STS.34.42.1170	STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown	6	21-May-21	28-May-21	-476					STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatown	1	04-Jan-21 A	31-May-21	-501					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatown to N
STS.28.20.1760	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Portal To Moscone	2	02-Mar-21 A	01-Jun-21	-478					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Portal To Moscone
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	01-Jun-21	-501					STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone
STS.34.42.1540	STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits	3	31-May-21	02-Jun-21	-476					STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits
STS.28.20.1730	STS_Install: Tunnel Electrical - CCTV Cameras - NB Moscone to Union Square	5	02-Mar-21 A	04-Jun-21	-485					STS_Install: Tunnel Electrical - CCTV Cameras - NB Moscone to Union Square
STS.28.20.1770	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Moscone to Union Square	2	09-Mar-21 A	08-Jun-21	-481					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Moscone to Union Square
STS.28.20.1740	STS_Install: Tunnel Electrical - CCTV Cameras - NB Union Square to Chinatown	6	09-Mar-21 A	14-Jun-21	-485					STS_Install: Tunnel Electrical - CCTV Cameras - NB Union Square to Chinatown
STS.34.42.2390	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Union Square to Chinatown	14	26-May-21	14-Jun-21	-484					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Union Square to Chinatown
STS.34.42.2400	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Chinatown to North Limits	2	15-Jun-21	16-Jun-21	-484					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Chinatown to North Limits
STS.28.20.1710	STS_Install: Tunnel Electrical - CCTV Cameras NB Chinatown to North Limits	2	17-Mar-21 A	16-Jun-21	-485					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	17-Mar-21 A	16-Jun-21	-485					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Union Square to Chinatown
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	13	01-Jun-21	17-Jun-21	-501					STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square
STS.28.20.1750	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Chinatown to North Limits	1	19-Mar-21 A	17-Jun-21	-485					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Chinatown to North Limits
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	14	18-Jun-21	07-Jul-21	-501					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 Limits	2	08-Jul-21	09-Jul-21	-501					STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limit
<b>Southbound Tunnel or Trackway</b>		<b>1110</b>	<b>21-Apr-16 A</b>	<b>25-Jun-21</b>	<b>114</b>					
STS.34.42.2310	STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone	4	20-Mar-17 A	26-Apr-21	-479					STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone
STS.34.42.0690	STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone	1	26-Apr-21	26-Apr-21	-452					STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone
STS.34.42.1070	STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square	1	27-Apr-21	27-Apr-21	-452					STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square
STS.34.42.2300	STS_Install: Train Control - Train Control Conduit - & JB's SB Moscone to Union Square	13	12-Mar-18 A	27-Apr-21	-476					STS_Install: Train Control - Train Control Conduit - & JB's SB Moscone to Union Square
STS.34.42.1440	STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown	1	27-Apr-21	28-Apr-21	-452					STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown
STS.34.42.1060	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Squa	6	26-Apr-21	03-May-21	-461					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Square
STS.34.42.0600	STS_Install: Train Control - Train Control Signals - SB Portal to Moscone	6	28-Apr-21	05-May-21	-481					STS_Install: Train Control - Train Control Signals - SB Portal to Moscone

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022
						Q1	Q2	Q3	Q4	Q1
STS.26.05.1010	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square	3	05-May-21	07-May-21	-471					STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square
STS.34.42.1800	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square to Chinatown	6	03-May-21	11-May-21	-461					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square to Chinatown
STS.26.05.3820	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to U	3	10-May-21	12-May-21	-459					STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to U
STS.34.42.0710	STS_Install: Train Control - SB ATSC Entry Point Signage - Portal	1	13-May-21	13-May-21	-463					STS_Install: Train Control - SB ATSC Entry Point Signage - Portal
STS.34.42.0980	STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square	6	06-May-21	13-May-21	-481					STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square
STS.34.22.3170	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB09 To SB05 - UMS To MC	3	30-Nov-20 A	13-May-21	-482					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB09 To SB05 - UMS To MC
STS.34.42.1090	STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone	1	14-May-21	14-May-21	-463					STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone
STS.34.22.3010	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I	4	14-Dec-20 A	14-May-21	-483					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I
STS.28.20.1810	STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits	2	17-Mar-21 A	14-May-21	-462					STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits
STS.34.22.2970	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS	2	08-Mar-21 A	17-May-21	-483					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS
STS.34.42.1460	STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square	1	17-May-21	17-May-21	-463					STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square
STS.34.22.3160	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS Sour	1	30-Nov-20 A	17-May-21	-483					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS Sour
STS.34.22.3190	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MOS North	1	08-Feb-21 A	17-May-21	143					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MOS North
STS.34.42.1820	STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown	1	18-May-21	18-May-21	-463					STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown
STS.34.22.3150	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS North	1	15-Mar-21 A	18-May-21	-483					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS North
STS.34.42.2330	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone	4	13-May-21	18-May-21	-491					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone
STS.34.42.2320	STS_Install: Train Control - Train Control Conduit - & JB's SB Union Square to Chinatown	14	21-Apr-16 A	19-May-21	-479					STS_Install: Train Control - Train Control Conduit - & JB's SB Union Square to Chinatown
STS.34.22.2950	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB16 To SB10 - CTS To	15	27-Jul-20 A	20-May-21	-483					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB16 To SB10 - CTS To
STS.34.22.2960	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To PS-03 - UMS	2	19-May-21	20-May-21	-483					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To PS-03 - UMS
STS.34.42.1720	STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown	6	14-May-21	21-May-21	-481					STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown
STS.34.22.3140	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB16 To SB10 - CTS To UMS	3	14-Dec-20 A	21-May-21	-473					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB16 To SB10 - CTS To UMS
STS.34.42.0580	STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone	4	13-May-19 A	24-May-21	-483					STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone
STS.34.42.1810	STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits	1	24-May-21	24-May-21	-469					STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits
STS.34.42.1430	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Chinatown to North Limi	1	24-May-21	24-May-21	-469					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Chinatown to North Limi
STS.34.42.1350	STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits	3	24-May-21	26-May-21	-471					STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits
STS.34.22.2940	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-8 To PFCB SB16 - CTS So	3	05-Oct-20 A	26-May-21	-473					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-8 To PFCB SB16 - CTS So
STS.34.42.2290	STS_Install: Train Control - Train Control Conduit - & JB's SB Chinatown to North Limits	5	20-May-21	26-May-21	-471					STS_Install: Train Control - Train Control Conduit - & JB's SB Chinatown to North Limits
STS.34.22.3130	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-8 To PFCB SB16 - CTS South	1	22-Mar-21 A	27-May-21	-473					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-8 To PFCB SB16 - CTS South
STS.26.05.1380	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to North Limits	2	26-May-21	27-May-21	-469					STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to North Limits
STS.26.05.1750	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to Chinatown	3	26-May-21	28-May-21	-474					STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to Chinatown
STS.34.22.2930	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB17 To PS-5 - Chinat	2	12-Oct-20 A	31-May-21	-473					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB17 To PS-5 - Chinat
STS.26.05.3840	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to	2	28-May-21	31-May-21	-469					STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to
STS.34.22.3120	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB17 To PS-5 - Chinatown	1	07-Dec-20 A	01-Jun-21	-473					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB17 To PS-5 - Chinatown
STS.26.05.3880	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown	5	03-Aug-20 A	01-Jun-21	129					STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown
STS.34.23.1900	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Moscone to Union Square	14	01-Mar-21 A	01-Jun-21	-485					STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Moscone to Union Square
STS.26.05.3830	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Union Square	3	31-May-21	02-Jun-21	-474					STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Union Square
STS.26.05.3890	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Chinatown to North Limits	3	30-Sep-20 A	04-Jun-21	129					STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Chinatown to North Limits
STS.34.42.2340	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Moscone to Union Square	13	19-May-21	04-Jun-21	-491					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Moscone to Union Square
STS.34.42.0960	STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Square	12	25-May-21	09-Jun-21	-483					STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Square
STS.34.23.1920	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Union Square to Chinatown	12	11-Mar-21 A	10-Jun-21	-485					STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Union Square to Chinatown
STS.34.42.1700	STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chinatown	14	25-May-21	11-Jun-21	-483					STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chinatown
STS.34.42.1330	STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North Limits	2	14-Jun-21	15-Jun-21	-483					STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North Limits
STS.34.23.1890	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Chinatown to North Limits	5	18-Mar-21 A	17-Jun-21	-485					STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Chinatown to North Limits
STS.28.20.1850	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate SB Chinatown to North Limits	1	19-Mar-21 A	23-Jun-21	-489					STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate SB Chinatown to North Limits
STS.34.42.2360	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Union Square to Chinatown	13	07-Jun-21	23-Jun-21	-491					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Union Square to Chinatown
STS.34.42.2350	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Chinatown to North Limits	2	24-Jun-21	25-Jun-21	-491					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Chinatown to North Limits
<b>King Substation (Traction Power)</b>		10	10-May-21	21-May-21	-491					
<b>Power Control Center (Near Bryant/Alameda)</b>		25	24-May-21	25-Jun-21	-491					
<b>No 13-Location</b>		966	14-May-14 A	28-Jul-21	91					
<b>Electrical - Transportation</b>		10	26-Apr-21	07-May-21	-477					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2021				2022
						Q1	Q2	Q3	Q4	Q1
	Startup & Testing	40	12-Jul-21	03-Sep-21	-501					
	No 13-Disp	1863	13-Jan-14 A	03-Sep-21	64					
	<b>Unallocated Contingency</b>	260	26-Apr-21	04-May-22	-486					



## *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:

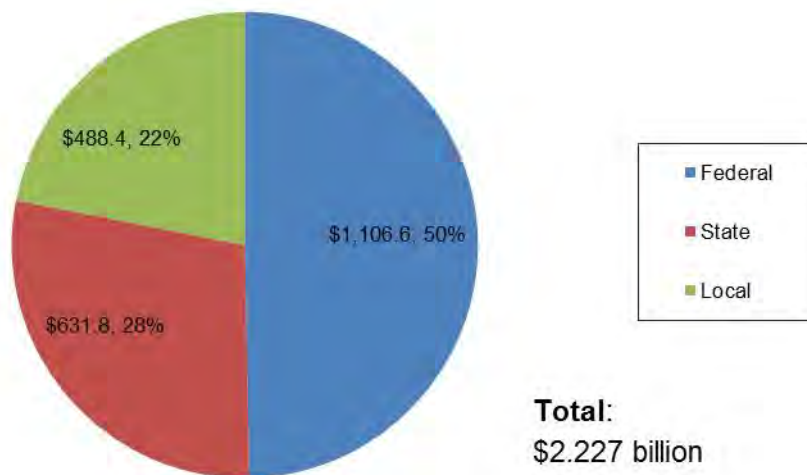
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

## 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.

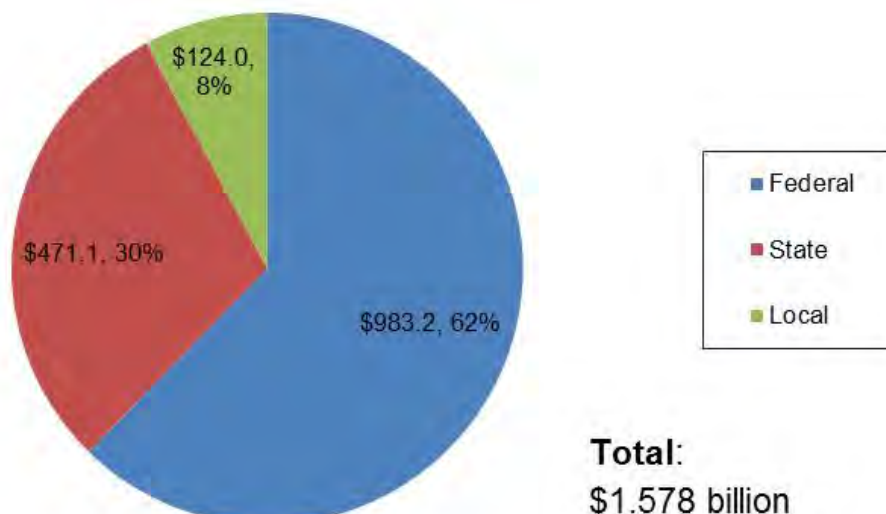
### Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2  
(\$ in millions)



### Central Subway Project Funding

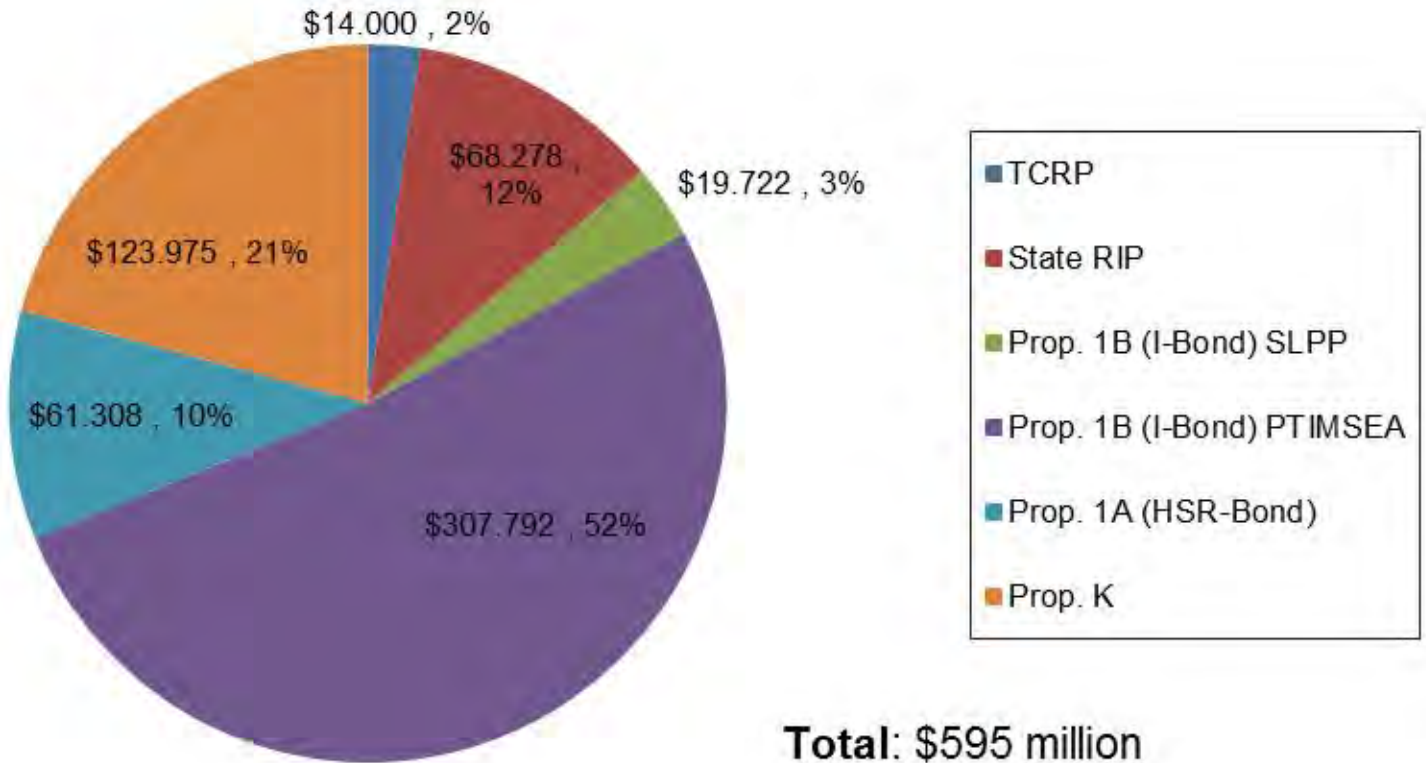
Phase 2  
(\$ in millions)





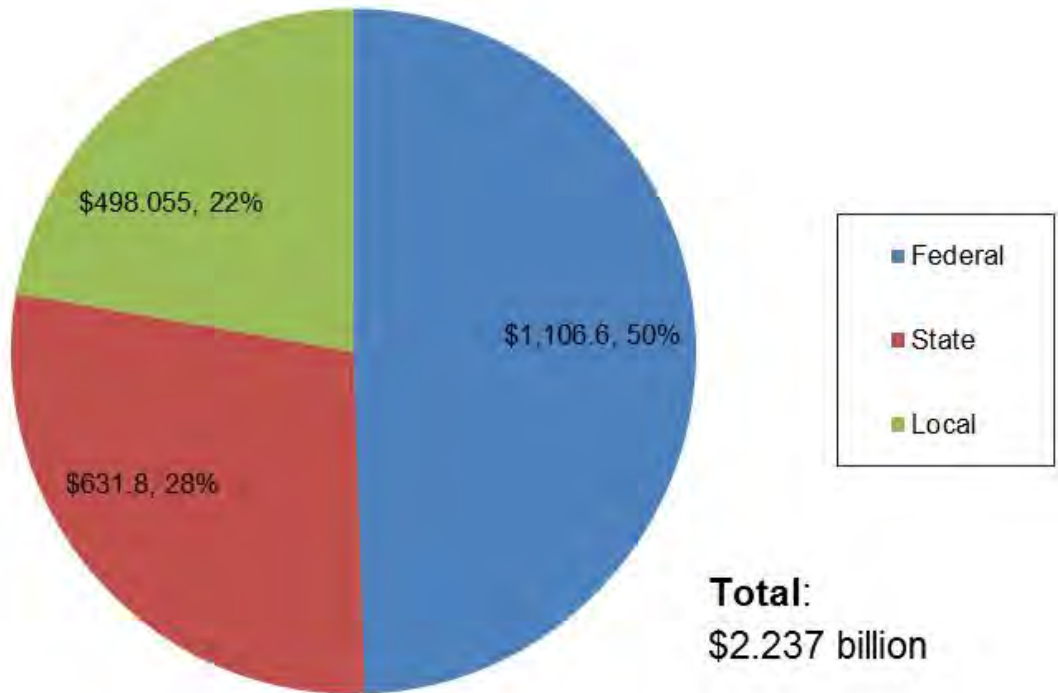
# State and Local Funding

Phase 2  
(\$ in millions)



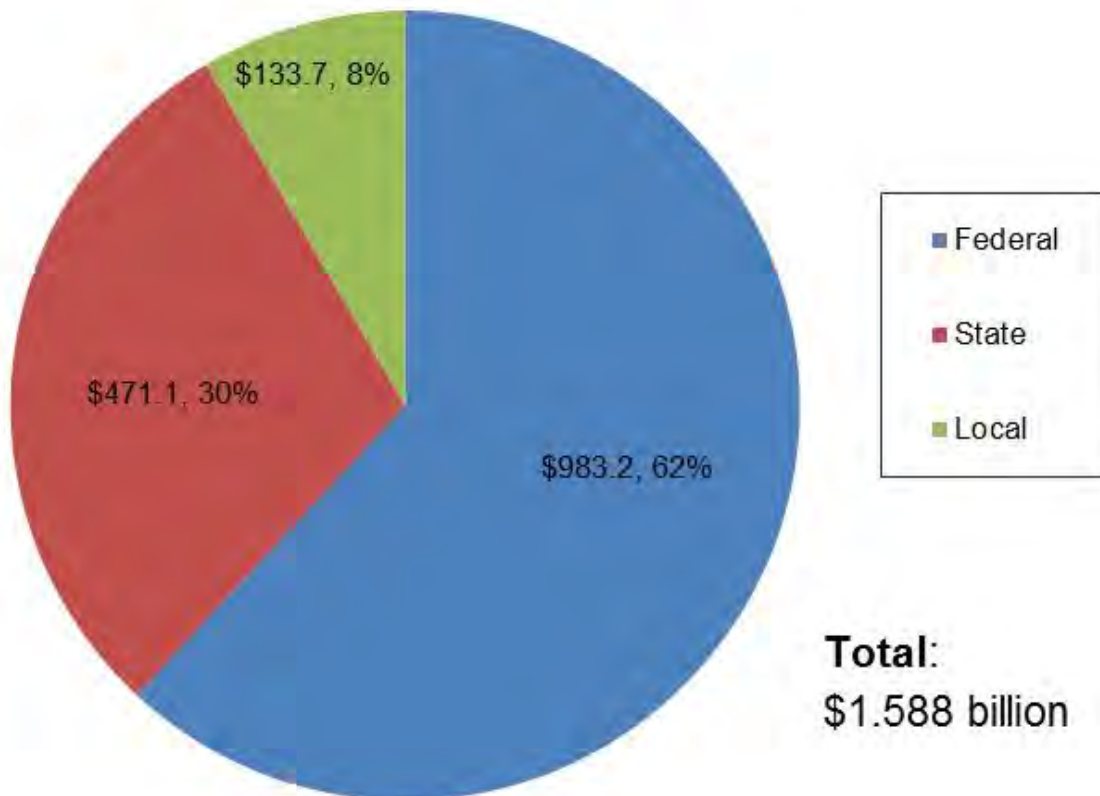
## Third Street Light Rail Transit Project Funding

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

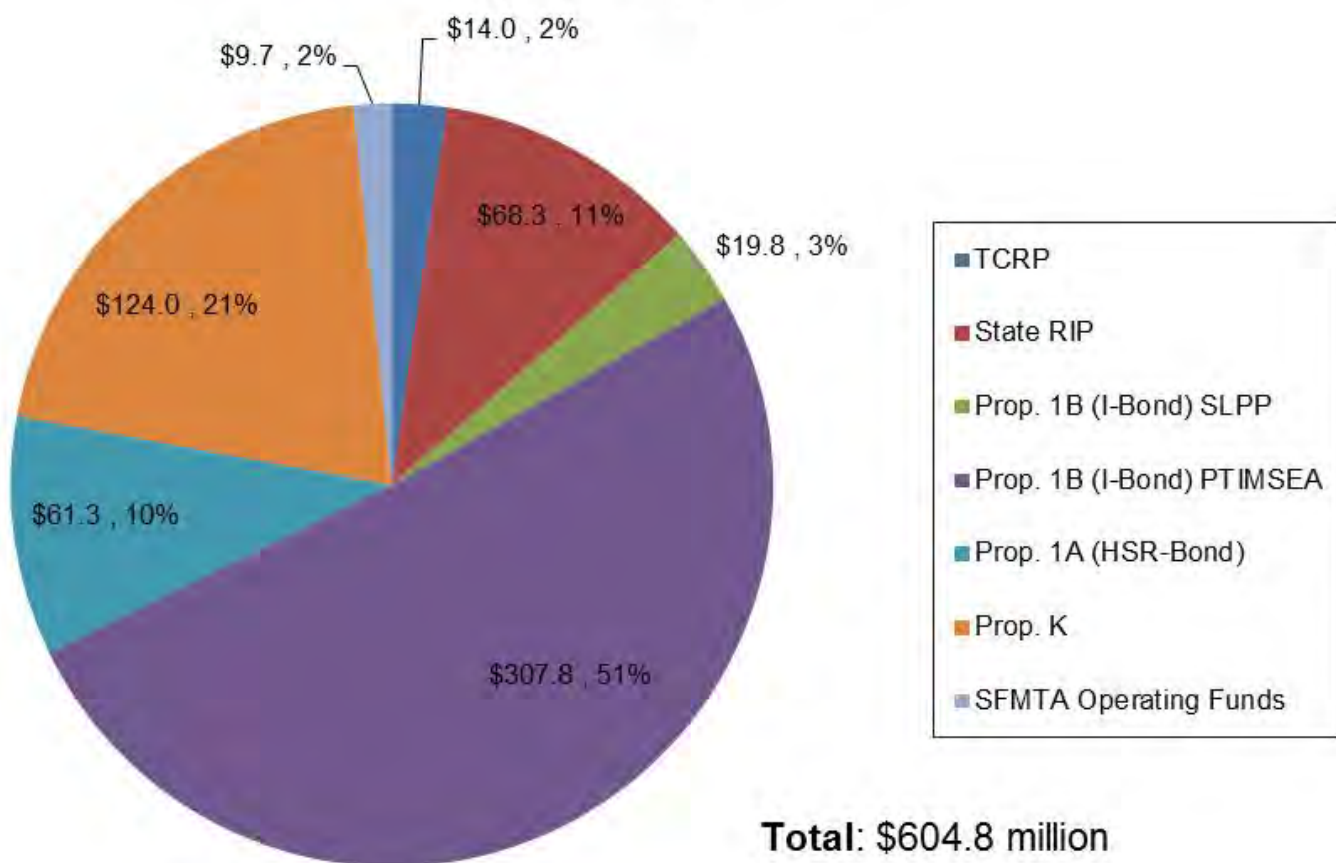


## Central Subway Project Funding

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

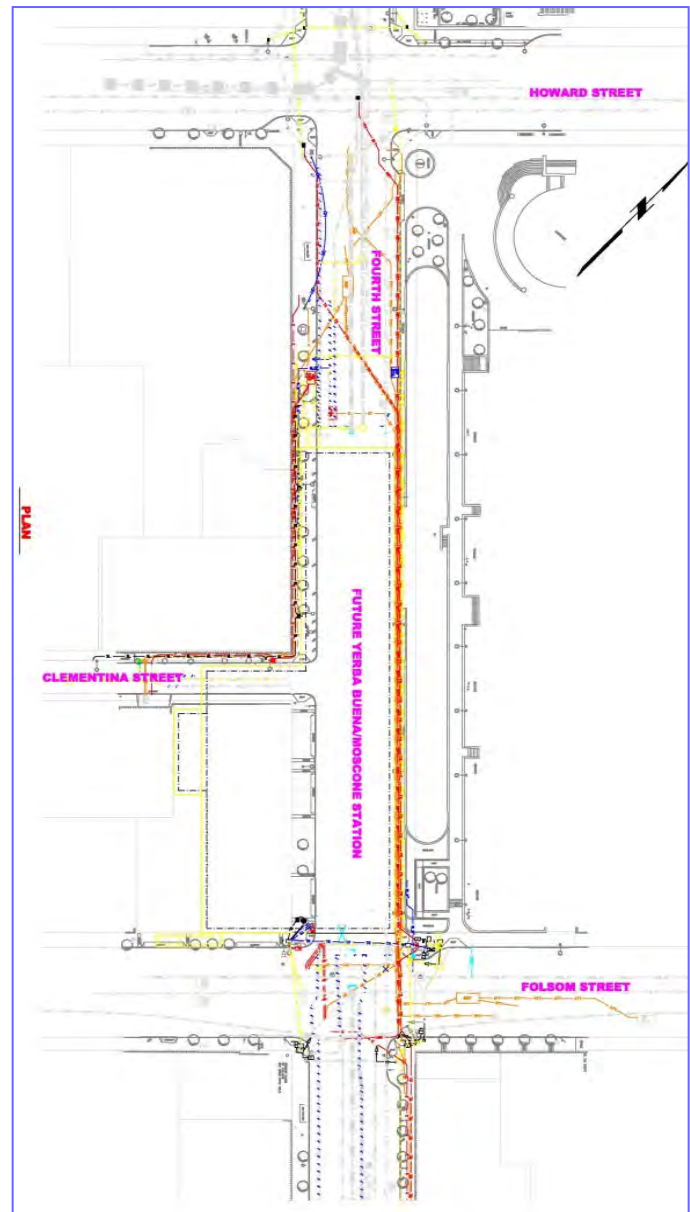
<b>Contract Awarded:</b>	November 17, 2009
<b>Notice to Proceed:</b>	January 4, 2010
<b>Substantial Completion:</b>	June 23, 2011
<b>Contract Award Value:</b>	\$ 9,273,939
<b>Modifications Final :</b>	\$ 2,694,211
<b>Final Contract Value:</b>	\$11,968,150

## 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>

## Contract Details

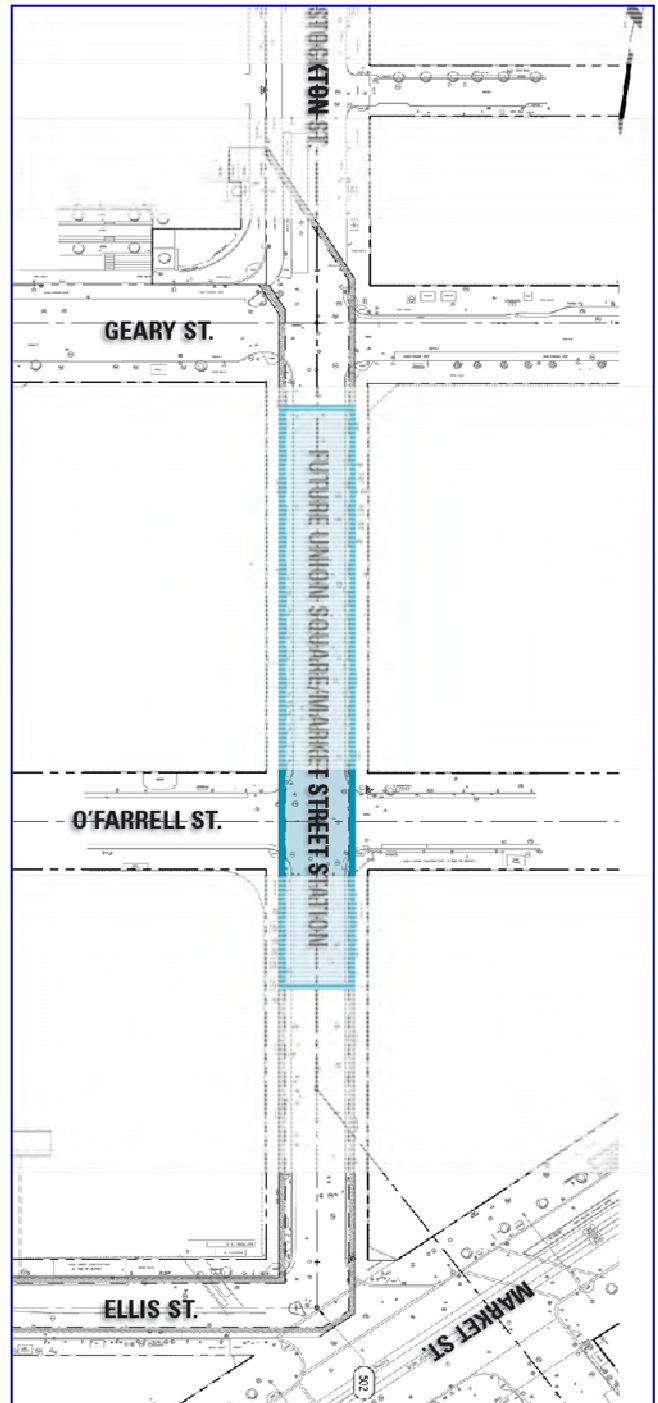
<b>Contract Awarded:</b>	December 7, 2010
<b>Notice to Proceed:</b>	January 12, 2011
<b>Substantial Completion:</b>	August 16, 2012
<b>Contract Award Value:</b>	\$16,832,550
<b>Modifications Final:</b>	\$3,836,531
<b>Final Contract Value:</b>	\$20,669,081

## 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

## Description

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



# Central Subway Pagoda Palace Demolition

Contract 1277 Contractor: MH Construction

## Work Description

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

- 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: January 2021 to March 2021

**PROGRAM SUPPORT CONTRACTS – SBE PARTICIPATION**

Appendix E presents the Central Subway Program Small Business Enterprise or SBE goals and the actual SBE participation achieved to date – as of March 31, 2021.<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%	\$105.40	33.8%	\$44.21	\$35.60	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%	\$50.55	32.0%	\$16.43	\$16.18	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$19.10	30%	\$19.10	25.8%	\$5.73	\$4.93	30.0%
<b>Subtotal Professional Services</b>				<b>\$246.31</b>		<b>\$193.07</b>		<b>\$73.21</b>	<b>\$62.06</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	1143.30	20%	\$1,123.13	17.0%	\$228.66	\$190.70	25.5%
<b>Subtotal Construction Contracts</b>				<b>\$1,416.59</b>		<b>\$1,396.42</b>		<b>\$250.24</b>	<b>\$234.94</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 #90 March 2021, SFMTA SBE FORM No. 6.

- g) The SBE SFMTA goal for Contract 1277 MH Construction was based on an SBE set-aside.

### **SBE Participation Details**

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

### Active Professional Services Contracts - SBE Participation Details

As of: 3/3/2021

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.)	105,396,929
	% Expended	71.5%
	SBE SFMTA Goal	30.0%
	SBE Participation	33.8%

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.)	50,549,642
	% Expended	92.3%
	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.)	19,102,430
	% Expended	89.7%
	SBE SFMTA Goal	30.0%
	SBE Participation	25.8%

\* denotes accrual



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

Data as of:		3/31/2021
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	\$303,622,187
	Current Contract Value	\$1,143,298,587
	Expended to Date (est.)	1,123,128,699
	% Expended	98.2%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	17.0%

Photos on the next page:  
 (top to bottom) March 2021:  
 At Chinatown Station, red roof structure near elevator.  
 Concourse art installation lights at Union Square Market Street Station. At Yerba Buena/Moscone Station, utility electrical detail in the control room. Platform shelter progress at Surface, Track, and Systems station.

# central subway

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This document is published by the SFMTA and the City and County of San Francisco as a service to individuals and agencies interested in the Central Subway Project. Funding for the Central Subway is made possible through funds provided by the Federal Transit Administration, the State of California, the Metropolitan Transportation Commission and the San Francisco County Transportation Authority.

