

Transmittal

CS Transmittal No. 2584

To: Bernardo Bustamante Federal Transit Administration San Francisco Federal Building 90 7th Street, Suite 15-300 San Francisco, CA 94103-6701 Date: April 6, 2020	From: Nadeem Tahir M544.1, CSP Project No./Contract No.: Task No./Title: Cost/Schedule Management Project Phase: Construction Subject: Monthly Progress Report February 2020
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Item No.	Copies	Description	Rev. No.	Date
1	1	Monthly Progress Report (February 2020)	1	4/6/2020

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

Nadeem Tahir, P.E.
 Program Director
 NT: dl

cc:

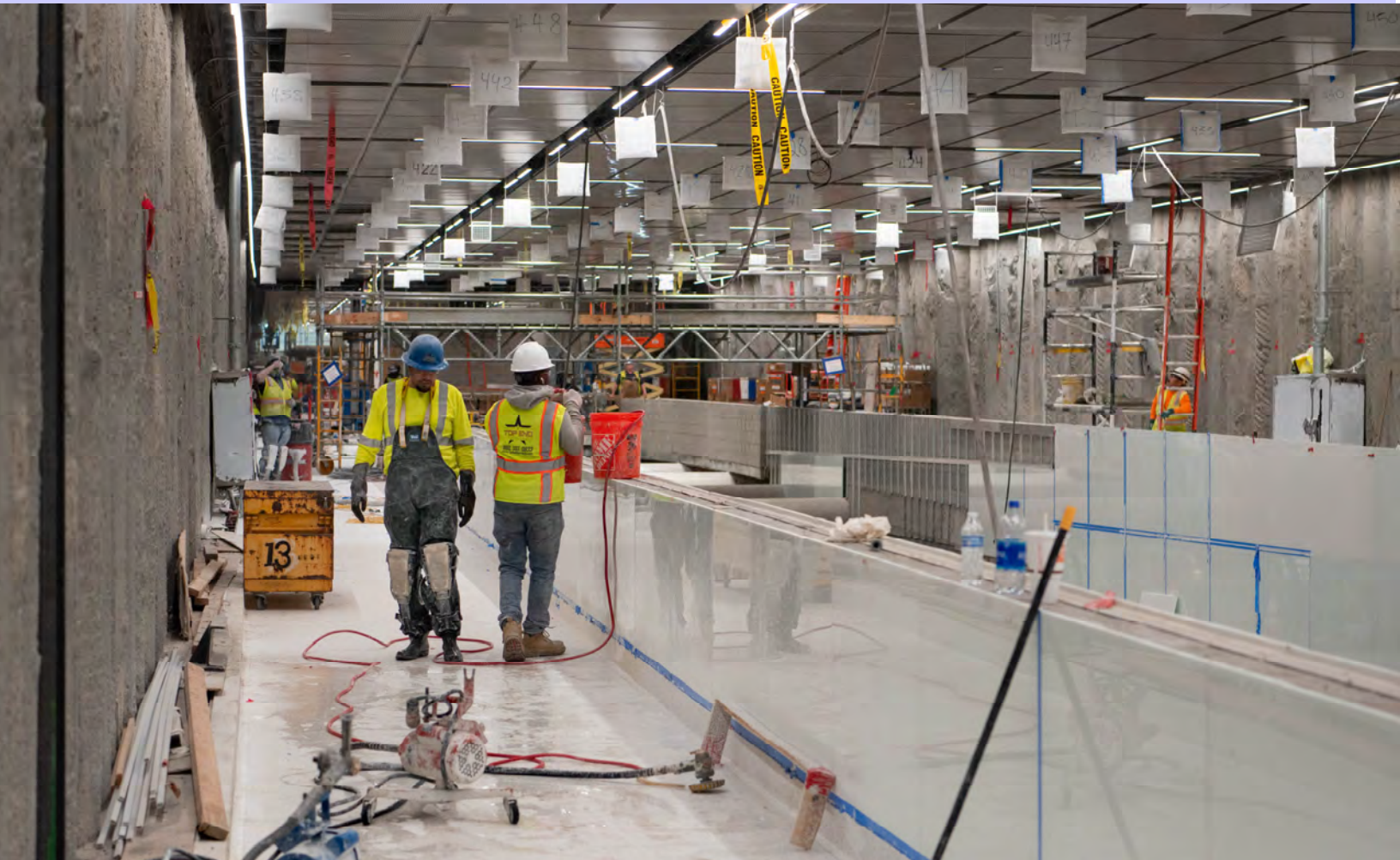
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CS File No. M544.1.5.0340.b

central subway

Terrazzo, Glass, and Steel at UMS

Finished terrazzo flooring, reflective glass wall panels, and other interior design elements continue to be installed.



Progress Report

February 2020



SFMTA

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Cover photo: Reflective glass wall panels, suspended steel ceiling panels, and utilities are installed inside the south concourse for Union Square/Market Street Station, while sections of terrazzo floor are shaped and smoothed. Round bench seating similar to that found in Market Street subway stations and other large installations are also going in. More photos can be found starting on page 37.

Above photo: Recesses in the street-level slab atop Chinatown Station will hold future escalators leading to and from the station lobby area and platform, far below. Walls for the future street-level entrance structure and roof plaza continue going up.

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.centrlsubwaysf.com/>



Workers file out of the staff elevator at the end of the day shift, atop the steel-level worksite for Chinatown Station.

Executive Summary

Chinatown Station - Completed CMU wall curb installation on the Headhouse Upper Mezzanine level. Completed installing Escalator 1 & 2 at North Platform Cavern. Completed arch closure composite wall. Continued installing Stair 5. Continued installing overhead conduit at Main Electrical and traction power rooms at Headhouse Platform level. Continued installing Escalator 3 & 4 at Headhouse Concourse level Continued Continued construction of PCC 50 Chinatown Plaza walls and stairs. Continued street work (minor), monitoring and surveying

Union Square/Market Street Station - Platform Station: Continued construction of stairs and elevators. Continued installation of glass enclosure around elevators and escalators. Continued to install overhead plumbing, fire protection piping, and overhead fixture and electrical. Continued installation of unistrut grid for ceiling panels and LED Artwork on Concourse level. South Concourse: Continued installation of overhead electrical, ceiling panels, and crystallized glass at ticket vending machine. Street/Surface: Continued installation of precast architectural concrete elements for USG terrace level. Continued installation of USG Roof level exhaust vent

Yerba Buena/Moscone Station - Continued installing Escalators 3 and 4. Continued installing Elevators 3 & 4. Began installing piping at Headhouse Vent Shaft and Headhouse Roof. Began installing ceiling at Headhouse Concourse. Continued installing ceiling in Station Concourse. Continued installing seismic joints at Station Platform.

Surface, Track and Systems– Continued traction power conduit and other electrical conduit installation inside tunnel. Continued tunnel lighting installation. Continued 4th/Brannan platform construction. Continued OCS installation on 4th Street and Brannan Street. Started train case work at 4th/King.

Total project costs to date are \$1,509.23 million, an increase of \$20.72 million over last month. The total cost to date equals 95.6% of the total project budget of \$1.578 billion. The program continues to show a forecast Revenue Service Date of Summer 2021.

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 33.

Key Milestones

Interior Design and Utilities installation at UMS



Two men work to keep the area dust-free while smoothing and buffing terrazzo floor transitions.



Sections of pipe and conduits are rolled and shaped to fit specifications.

MILESTONE	DATE EXPECTED
General	
Revenue Service	Summer 2021
Contract 1300 Stations, Surface, Track, Systems	
Notice to Proceed (NTP 1)	June 17, 2013 (A)
Notice to Proceed (NTP 2)	January 12, 2014 (A)
Substantial Completion	June 29, 2020



Large cables are pulled and installed in conduits located above ceiling panels inside the station concourse.

Costs and Schedule

Costs (See Appendix A for Details)

The Current Cost Estimate (CCE) for the Central Subway Project is **\$1.578 billion** in year of expenditure dollars (\$YOE). This total project cost is shown at the top of Report 7.1, Program Project Budget. This capital cost projection incorporates allocated and unallocated contingencies to cover the risks associated with the project completion. The Program is in the process of evaluating the Program's Estimate at Completion (EAC) as part of a workshop with FTA. The Program intends to report a revised EAC to the SFMTA Board in an April meeting. When approved by the Board, the Program will adjust the overall Program budget and contingency.

Total net incurred costs for the project are \$1,509.23 million, a \$20.72 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,458.87 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$33.67 million) and estimates of outstanding pay requests (\$4.20 million). This incurred amount equals 94.3% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,556.74 million and includes Low Carbon Transit Operations Program (LCTOP) Funds FY2019/2020 \$4,000,000 and Proposition B (City of San Francisco Adjusting Transportation Funding for Population Growth) FY2020 \$3,191,063 appropriated in September 2019. This represents 98.7% of the total project budget and we anticipate the addition of \$21,558,937 to complete the funding of the program.

Earned Value Analysis

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

Preliminary February Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,588,254,431
Earned Value:	\$1,470,315,958
Actual Cost:	\$1,509,231,338
Schedule Performance Index (SPI):	0.93
Cost Performance Index (CPI):	0.97
Percent Complete:	92.3%

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

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 February 2020. The February 2020 Schedule Update submittal from Contract 1300 Contractor was not submitted as the CN1300 Contractor has not provided the updated corrections to their June 2017 through July 2018 Schedule Updates. The Contract 1300 schedule represented in this report is based on the SFMTA February 2020 Schedule Update.

The MPS shows a forecast Revenue Service Date of Summer 2021, shifting from 26 July 2021 to 16 September 2021 based on a revised assessment of the overall schedule and the current project conditions.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources and extended approvals of contract modifications related to Radio and Train Control Systems. 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 June 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 February 2020 schedule is used within the November Report. The SFMTA Contract 1300 February 2020 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. The SFMTA will continue to use the SFMTA Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of SFMTA scheduling concerns.



Concourse-to-platform elevators are currently being tested inside Union Square/Market Street Station, while ceiling panels and interior fixtures continue to be installed.

Schedule Highlights - Continued

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

- Continued installing Stair 5
- Continued installing overhead conduit at Main Electrical and Traction Power rooms at Headhouse Platform level
- Completed CMU wall curb installation on the Headhouse Upper mezzanine level
- Continued installing GFRC panels at North Platform Caverns
- Completed installing Escalator 1 & 2 at North Platform Cavern
- Continued installing Escalator 3 & 4 at Headhouse Concourse level
- Continued installing Traction Power Equipment at Platform level
- Completed arch closure composite wall
- Begin GFRC panel installation at Concourse level
- Continued construction of PCC 50 Chinatown Plaza walls and stairs
- Continued street work (minor), ongoing monitoring and surveying

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

- Platform Station: Continued construction of stairs and elevators. Continued installation of glass enclosure around elevators and escalators. Continued to install overhead plumbing, fire protection piping, and overhead fixture and electrical. Continued installation of unistrut grid for ceiling panels and LED Artwork on Concourse Level. Continued installation of ceiling panels. Continued installation of light fixtures and controls. Continued installation of Curved Metal Panel on Platform Strut Level. Continued installation of frames for doors on all Levels. Continued preparation for installation of terrazzo on Platform level
- North Concourse: Continued construction of stairs and elevators. Continued installation of overhead plumbing, fire protection piping, and overhead fixture and electrical. Continued cement plaster finish in various rooms. Continued installation of glass wall panels
- South Concourse: Continued installation of overhead electrical, ceiling panels, and crystallized glass at ticket vending machine. Continued installation of unistrut for ceiling panels and LED artwork. Continued installation of glass wall panels. Continued installation of terrazzo flooring
- Street/Surface: Continued installation of precast architectural concrete elements for USG terrace level. Continued installation of USG Roof level exhaust vent

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

- Continued installing Escalators 3 and 4
- Continued installing Elevators 3 and 4

Schedule Highlights - Continued

- Began installing piping at Headhouse Vent Shaft and Headhouse Roof
- Began installing EV controls at Station Mezzanine
- Began installing ceiling at Headhouse Concourse
- Continued installing ceiling in Station Concourse
- Continued installing seismic joints at Station Platform

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

- Continued traction power conduit and other electrical conduit installation inside tunnel
- Continued tunnel lighting installation
- Continued standpipe installation in tunnels and cross passages
- Continued 4th/Brannan platform construction
- Continued pulling traction power feeder cables on surface
- Continued OCS installation on 4th Street and Townsend Street
- Started train case work at 4th/King



Concrete formwork, rebar cages, and steel panels are being installed to build out one of the last sections of tunnel walkway, seen inside the northbound tunnel as it exits the Yerba Buena/Moscone Station platform area.

Master Project Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2021												Page 1 of 1
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
CENTRAL SUBWAY PROJECT																	
Program Level Milestones																	
P-0000	Central Subway Project Start	4864	05-Jan-18 A	26-Jan-21													
M-0004A	Tunnel Excavation Complete - Project Milestone #4A	6308	05-Jan-18 A	18-Sep-21													
M-0001B	Baseline Finish Date: 12/26/2018	6	05-Jan-18 A	06-Sep-14 A													
M-0009	GSP Revenue Service Date	6	05-Jan-18 A	18-Sep-21*													
				18-Sep-21*													
Preliminary Engineering Phase																	
1001	Final Design	1271	05-Jan-18 A	17-Jan-19 A													
1005	Light Rail Vehicles	3205	16-Apr-18 A	30-Aug-20													
1100	Rail Estate	3330	01-Aug-08 A	07-Jan-14 A													
Construction Phase																	
1146	Construction Support and Costs	3146	04-Jan-19 A	26-Jan-21													
1270	Construction Utility Contract #1 - MCO's & Portal CN-1250	656	04-Jan-19 A	26-Jan-21													
645	Construction Utility Contract #2 - UMS CN-1251	645	12-Jan-11 A	15-Oct-12 A													
1518	Construction Tunnela CN-1252	1518	05-Jan-11 A	28-Feb-20													
1798	Construction STS P-1256 ATCS	1798	20-May-18 A	04-Feb-21													
185	Construction STS P-XXXX Radio	185	27-Aug-19 A	03-Nov-20													
1889	Construction CN-1300	1889	05-Jun-13 A	24-Feb-21													
1890	CN-1300 Milestone	1890	17-Jun-13 A	16-Feb-21													
1908	Construction UMS Station P-1260	1908	17-Jun-13 A	19-Nov-20													
1909	Construction CTS Station P-0204B	1909	17-Jun-13 A	19-Nov-20													
1928	Construction YBM Station P-1266	1928	10-Jun-13 A	18-Nov-20													
1929	Construction STS P-1268	1929	05-Jun-13 A	25-Feb-21													
1930	Project Start Up	662	17-Nov-20	18-Sep-21													
1931	Unallocated Contingency	580	26-Feb-20	10-Aug-21													

Required Revenue Service Date: 26-Dec-18
 Data Date: 29-Feb-20

SPMTA Central Subway Project
 Master Project Schedule
 Summary Schedule - February 2021



A worker pauses while observing associates nearby along one of the two massive escalators leading to and from Chinatown Station's headhouse lobby and fare gate area from the upper mezzanine.

Contracts & Construction

Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$888.28 million
- Contract Status: 94.48% complete construction

Contracts Completed

[See Appendix D](#)

Contract 1250: Moscone Station and Portal Utilities Relocation

Contract 1251: Union Square/Market Street Station Utility Relocation

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

Contract 1252: Central Subway Tunneling

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

Stations, Surface, Track and Systems

Contract 1300 Contractor: Tutor-Perini Corporation

Description of Work

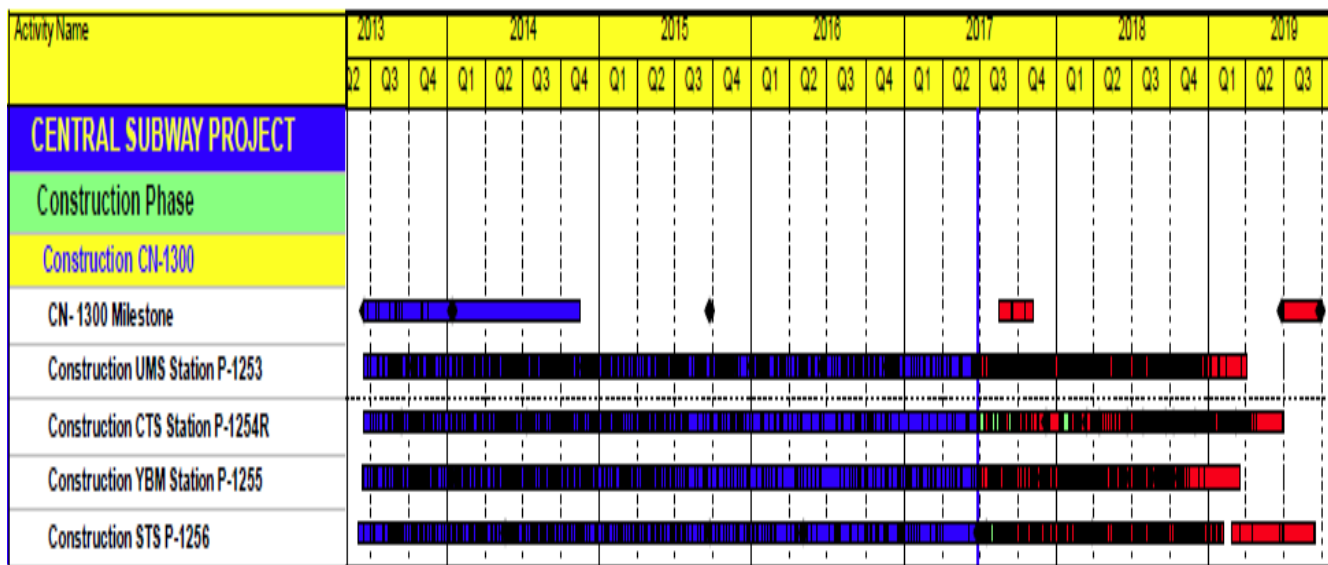
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	June 29, 2020
Contract Award Value:	\$839,676,400
Modifications to Date (\$):	\$48,604,326
Modifications to Date (Days):	870
Current Contract Value:	\$888,280,726

Budget/Expenditures▲	
Current Budget	\$861,639,691
Other Project Offset Credits	\$7,578,285
Expenditures to Date	\$839,374,641

1300 Summary Schedule



Chinatown Station

Contract 1300 - Work Package 1254R

Description of Work

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



Current Work Status

- Continued installing Stair 5
- Continued installing overhead conduit at Main Electrical and Traction Power rooms at Headhouse Platform level
- Completed CMU wall curb installation on the Headhouse Upper mezzanine level
- Continued installing GFRC panels at North Platform Caverns
- Completed installing Escalator 1 & 2 at North Platform Cavern
- Continued installing Escalator 3 & 4 at Headhouse Concourse level
- Continued installing Traction Power Equipment at Platform level
- Completed arch closure composite wall
- Begin GFRC panel installation at Concourse level
- Continued construction of PCC 50 Chinatown Plaza walls and stairs
- Continued street work (minor), ongoing monitoring and surveying

Work Expected Next Month

- Complete installing GFRC panels at North Platform Caverns
- Complete installing Escalator 3 & 4 at

Headhouse Concourse level

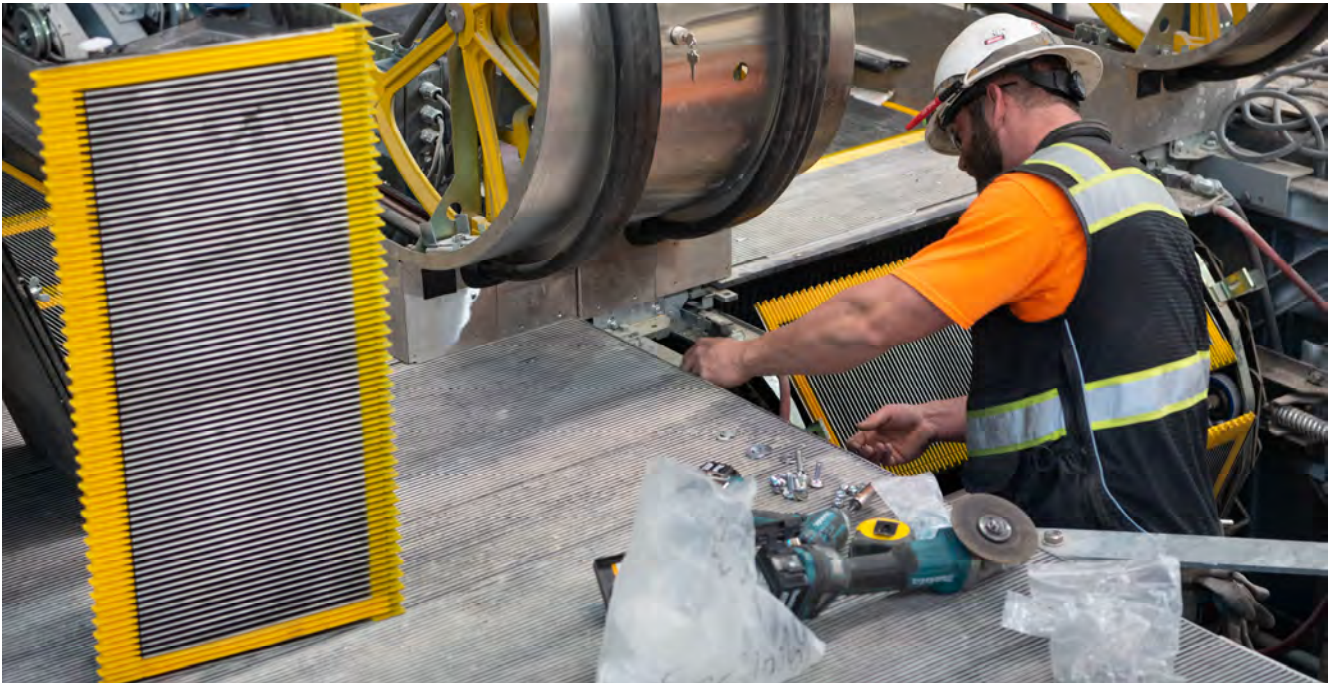
- Complete installing overhead conduit at Main Electrical and Traction Power rooms at Headhouse Platform level
- Complete electrical switchgear installation at Headhouse Platform level
- Begin Escalator 5 and 6 installation
- Complete CMU wall construction at all levels of Headhouse
- Continue construction of PCC 50 Chinatown Plaza walls

Three Month Look

- Begin installation of Elevators 1 & 2, 3 & 4
- Complete installing mechanical, electrical, plumbing, at Cavern Underplatform and Platform levels
- Complete installing mechanical, electrical, plumbing at Concourse, Intermediate, Lower Mezzanine, and Upper Mezzanine levels at Headhouse
- Complete construction of Surface, Plaza, and Roof levels at Headhouse
- Continue construction of PCC 50 Chinatown Plaza

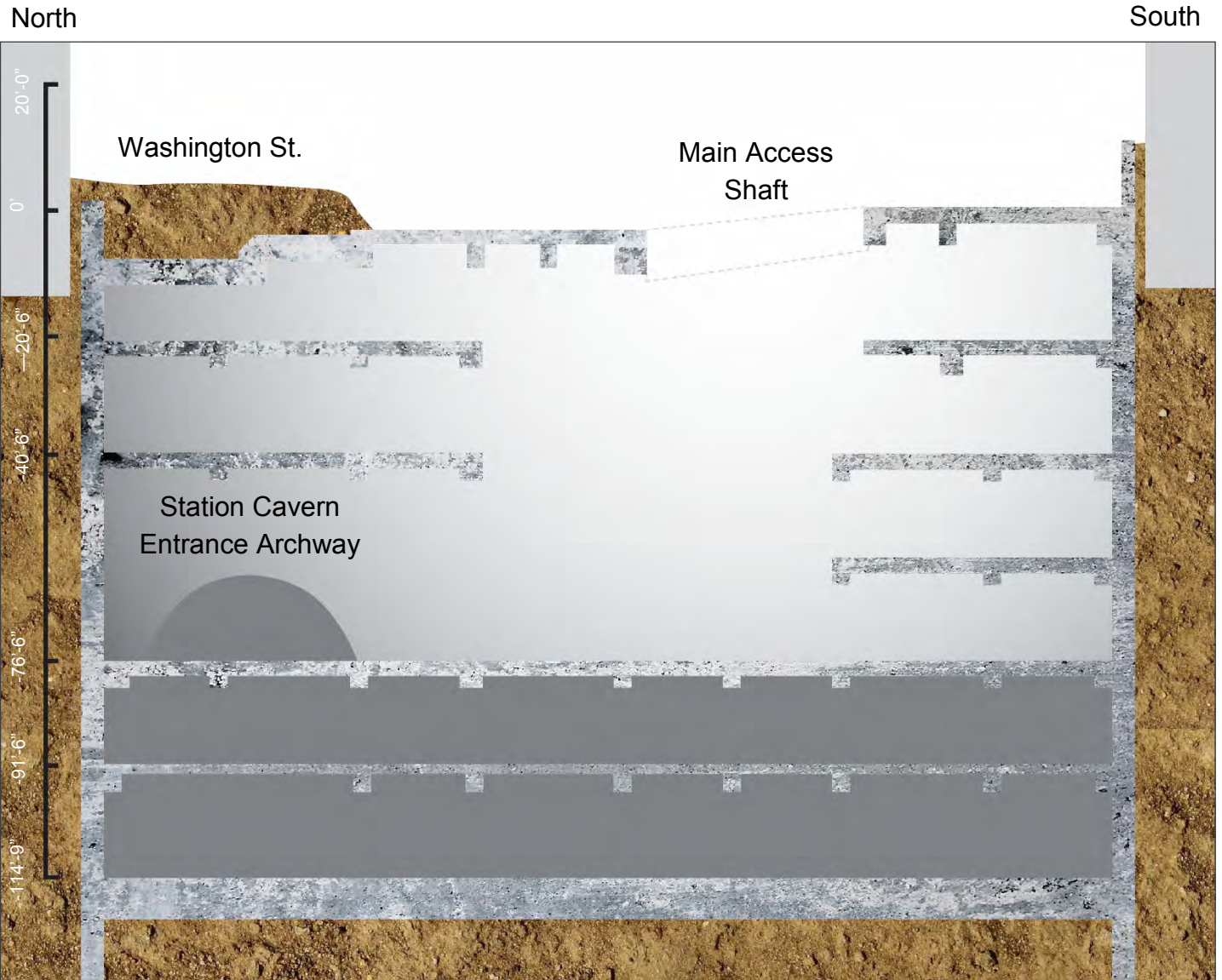
Contract 1300 - Work Package 1254R

- Abandon dewatering wells on Stockton Street
- Begin street utility work on Washington Street



Escalator steps, wiring, and supporting machinery continue to be methodically installed at the north end of the Union Square/Market Street Station platform.

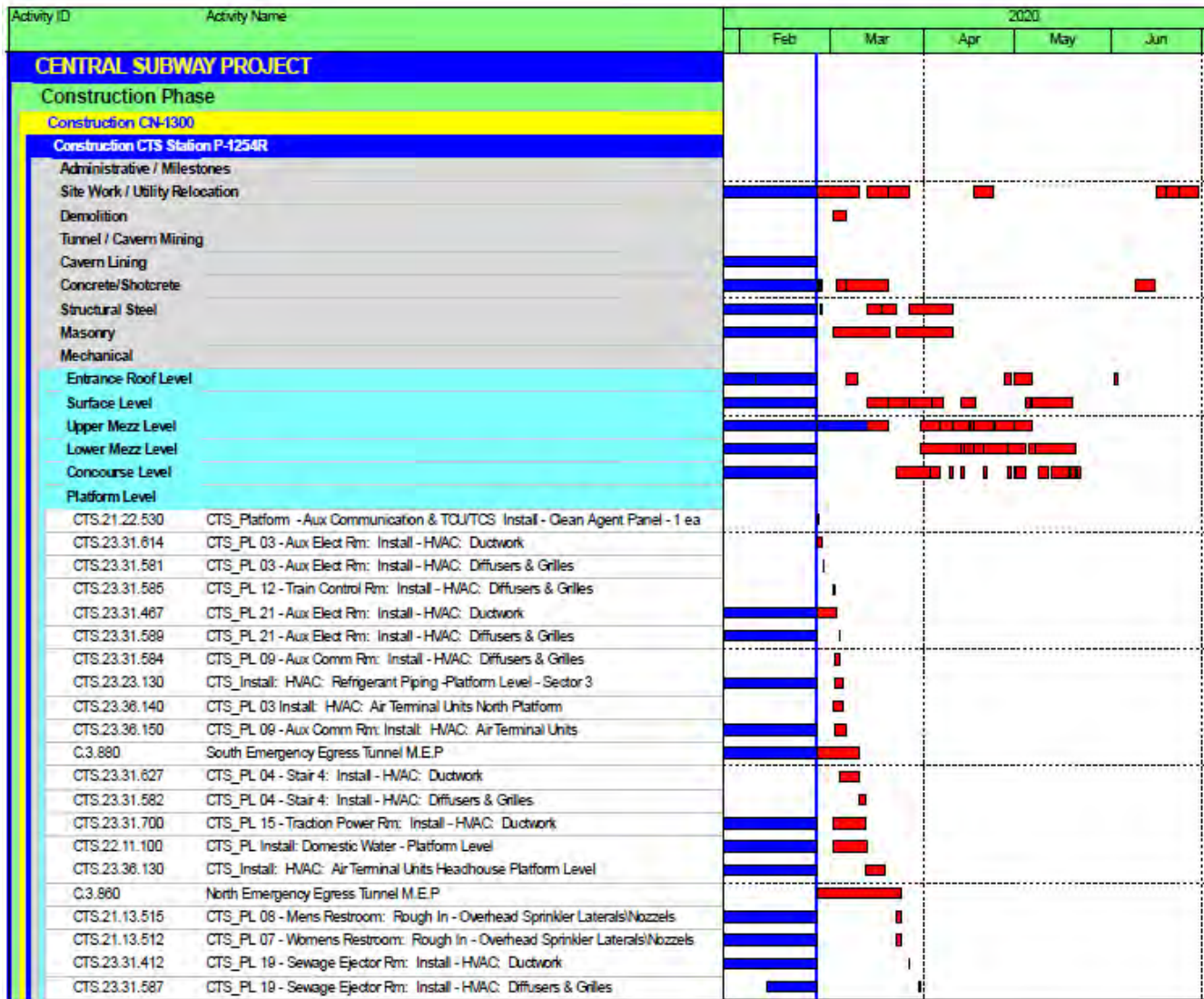
Station Construction Progress Section



Chinatown Station Construction Status - Continued

Contract Details		Budget/Expenditures ▾	
Contract Awarded:	May 21, 2013	Current Budget	\$257,567,810
Notice to Proceed:	June 17, 2013	Other Project Offset Credits	\$4,530,188
Substantial Completion:	June 29, 2020	Expenditures to Date	\$271,616,574
Contract Award Value:	\$247,567,810		
Modifications to Date (\$):	\$52,199,817		
Modifications to Date (Days):	870		
Current Contract Value:	\$299,767,627		

CTS Three Month Schedule



Union Square/Market Street Station

Contract 1300 Work Package 1253

Description of Work

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

Current Status This Month

- Platform Station: Continued construction of stairs and elevators. Continued installation of glass enclosure around elevators and escalators. Continued to install overhead plumbing, fire protection piping, and overhead fixture and electrical. Continued installation of unistrut grid for ceiling panels and LED Artwork on Concourse level. Continued installation of ceiling panels. Continued installation of light fixtures and controls. Continued installation of Curved Metal Panel on Platform Strut level. Continued installation of frames for doors on all levels. Continued preparation for installation of terrazzo on Platform level
- North Concourse: Continued construction of stairs and elevators. Continued installation of overhead plumbing, fire protection piping, and overhead fixture and electrical. Continued cement plaster finish in various rooms. Continued installation of glass wall panels
- South Concourse: Continued installation of overhead electrical, ceiling panels, and crystallized glass at ticket vending machine. Continued installation of unistrut for



ceiling panels and LED artwork. Continued installation of glass wall panels. Continued installation of terrazzo flooring

- Street/Surface: Continued installation of precast architectural concrete elements for USG terrace level. Continued installation of USG Roof level exhaust vent

Work Expected Next Month

- Platform Station: Continue Energization in main electrical room. Continue construction of stairs and elevators. Continue installation of glass enclosure around elevators. Continue installation of escalators. Continue installation of glass wall panels for escalators. Continue to install overhead plumbing, fire protection piping, and overhead fixture and electrical. Continue installation of unistrut grid for ceiling panels and LED Artwork on Concourse level. Continue installation of ceiling panels. Continue installation of light fixtures and controls. Continue installation of Curved Metal Panel on Platform Strut Level. Continue installation of frames and begin installation of doors on all levels. Continue preparation for installation of terrazzo on Platform Level and installation of terrazzo. Continue installation of brackets for Platform level Artwork

Union Square/Market Street Station

Contract 1300 Work Package 1253

- North Concourse: Continue construction of stairs and elevators. Continue installation of overhead plumbing, fire protection piping, and overhead fixture and electrical. Continue cement plaster finish in various rooms. Continue installation of glass wall panels
- South Concourse: Continue installation of overhead electrical, ceiling panels, and crystallized glass at ticket vending machine. Continue installation of unistrut for ceiling panels and LED artwork. Continue installation of glass wall panels. Continue installation of terrazzo flooring
- Street/Surface: Continue installation of pre-cast architectural concrete elements for USG terrace level. Continue installation of USG Roof level exhaust vent. Continue Ellis Entrance finishes

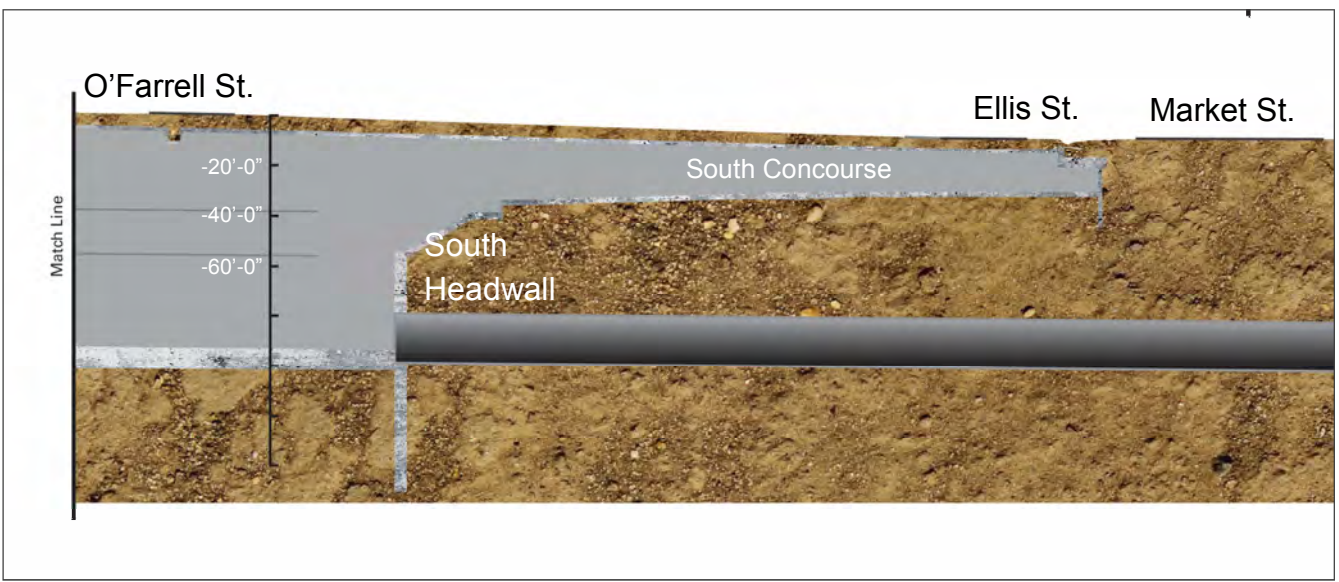
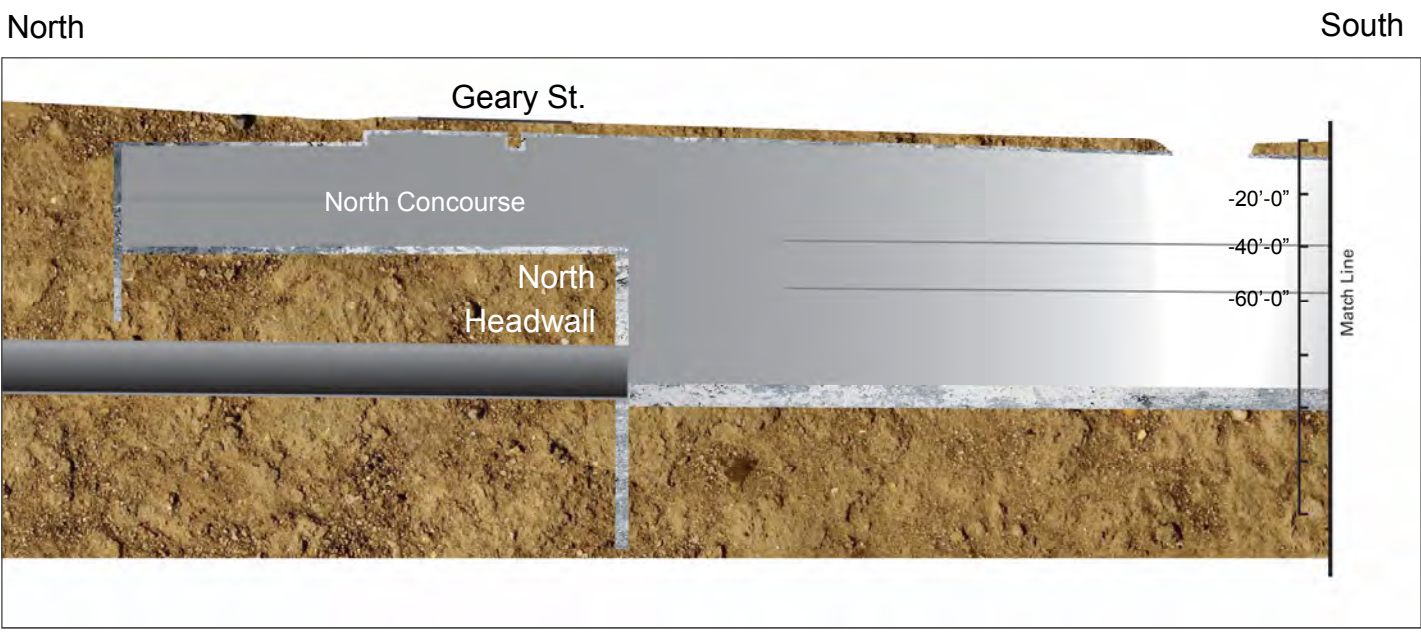
Three Month Look Ahead

- Platform Station: Complete CMU wall construction. Complete deck installation. Complete all structural concrete work. Complete construction of stairs and escalators. Complete installation of ceiling panels. Continue installation of fireproofing. Continue terrazzo flooring. Continue installation of artwork on Concourse and Platform level. Continue installation of light fixtures and controls. Continue installation of overhead plumbing, fire protection piping and overhead fixture and electrical. Continue installation of frames and installation of doors on all levels. Begin installation of access controls
- North Concourse: Continue terrazzo flooring. Complete installation of ceiling panels. Continue installation of fire alarm system in USG
- South Concourse: Continue construction of escalators and stairs. Continue terrazzo flooring. Continue installation of ceiling panels



Street/Surface: Complete installation of granite curb, brick sidewalk, and pedestrian ramps north of Market Street. Complete installation of glass roof walk artwork on USG Terrace level. Complete installation of precast architectural concrete elements for USG terrace level. Begin installation of permanent historic streetlights. Begin installation of traffic cabinets and permanent traffic signals

Station Excavation and Construction Progress Section

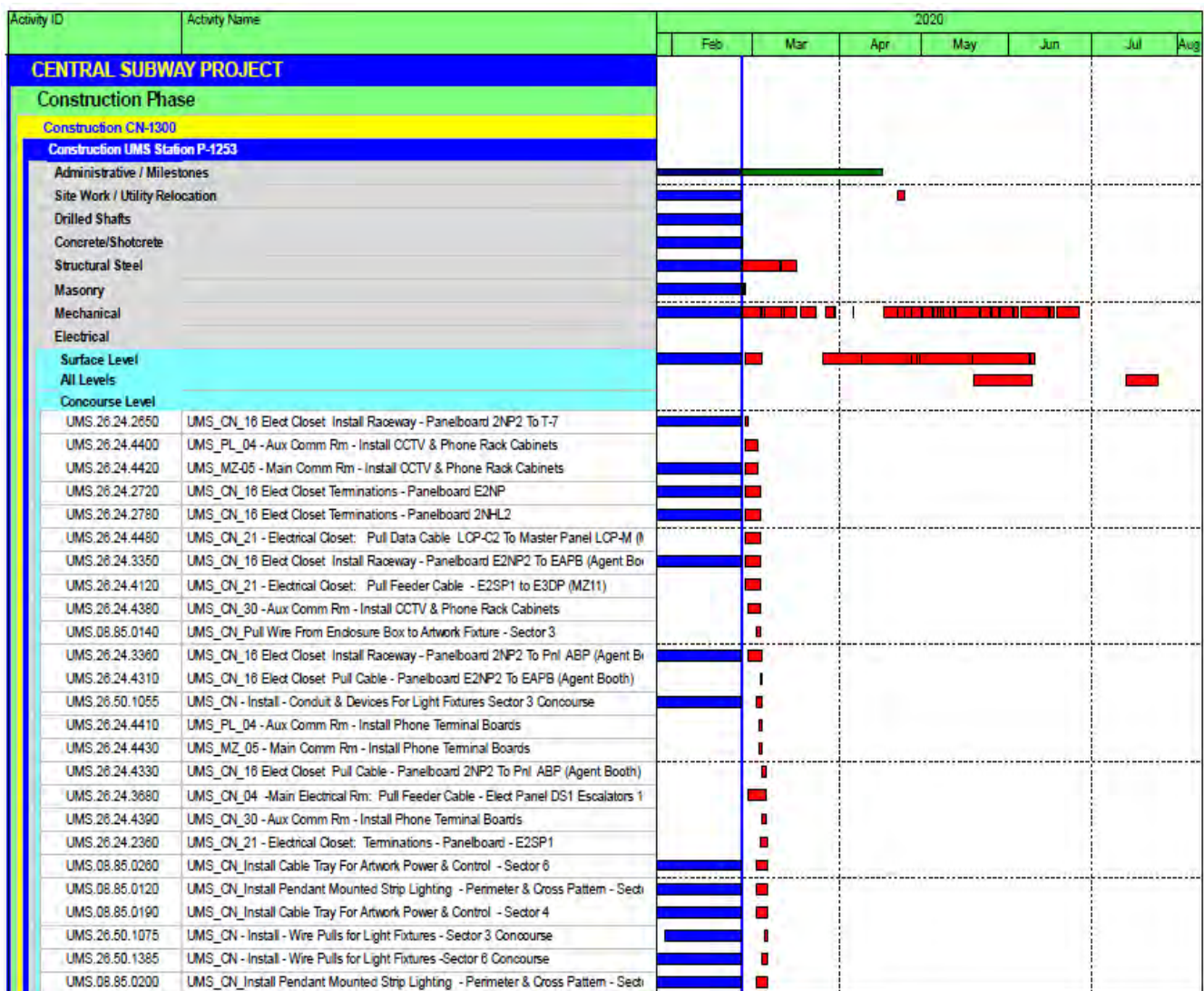


Union Square Market Street Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	June 29, 2020
Contract Award Value:	\$294,030,590
Modifications to Date (\$):	\$7,744,337
Modifications to Date (Days):	870
Current Contract Value:	\$301,774,927

Budget/Expenditures ▲	
Current Budget	\$314,030,590
Expenditures to Date	\$293,487,988

UMS Three Month Schedule



Yerba Buena/Moscone Station

Contract 1300 - Work Package 1255

Description of Work

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

Current Status

- Continued installing Escalators 3 and 4
- Continued installing Elevators 3 through 4
- Began installing piping at Headhouse Vent Shaft and Headhouse Roof
- Began installing EV controls at Station Mezzanine
- Began installing ceiling at Headhouse Concourse
- Continued installing ceiling in Station Concourse
- Continued installing seismic joints at Station Platform

Work Expected Next Month

- Continue installing Escalators 1 through 4
- Continue installing Elevators 3 and 4
- Continue installing Stairs 2 and 3
- Begin installing skylight glass at Headhouse Roof
- Begin installing fireproof steel structure at Headhouse Roof
- Continue installing EV Controls at Station Mezzanine
- Begin installing branch power at Station Mezzanine
- Continue installing Station Agent Booth at Headhouse Concourse



- Begin installing toilets and lockers in Headhouse Concourse
- Begin installing artwork at Headhouse Concourse
- Continue installing metal wall and floor in Station Concourse
- Begin installing lighting in Station Concourse
- Continue installing telephone system at Station Platform level

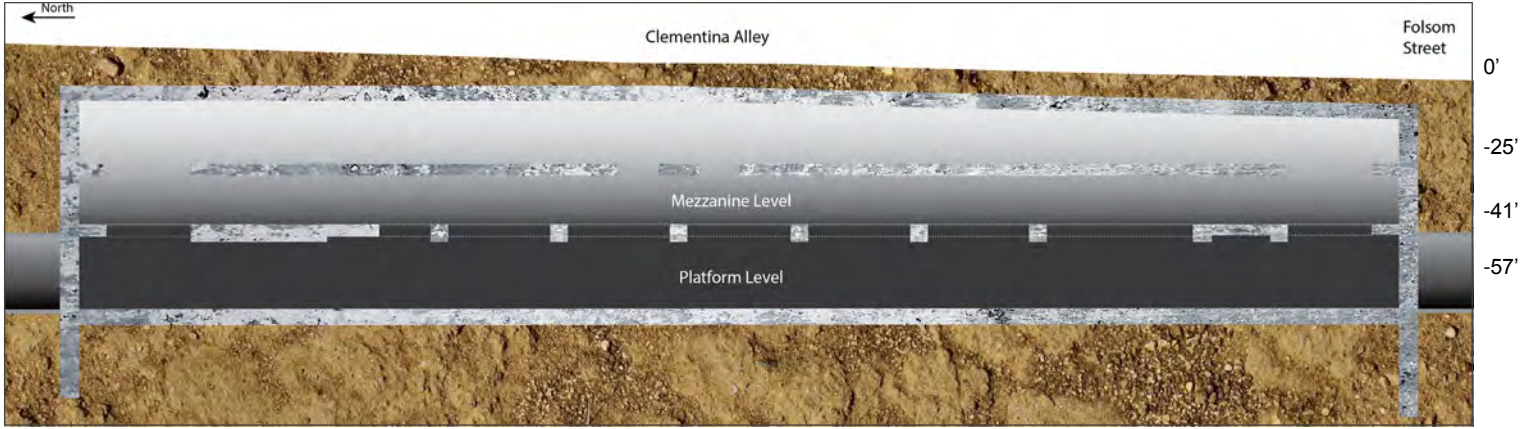
Three Month Look Ahead

- Continue interior finishes on Mezzanine & Concourse Levels within Station Box
- Continue placement of stairs within Station and Headhouse
- Begin installation of sculpture at Surface level
- Complete installation of artwork in Headhouse Concourse
- Complete installation of Elevators 3 and 4

Station Excavation and Construction Progress Section

North

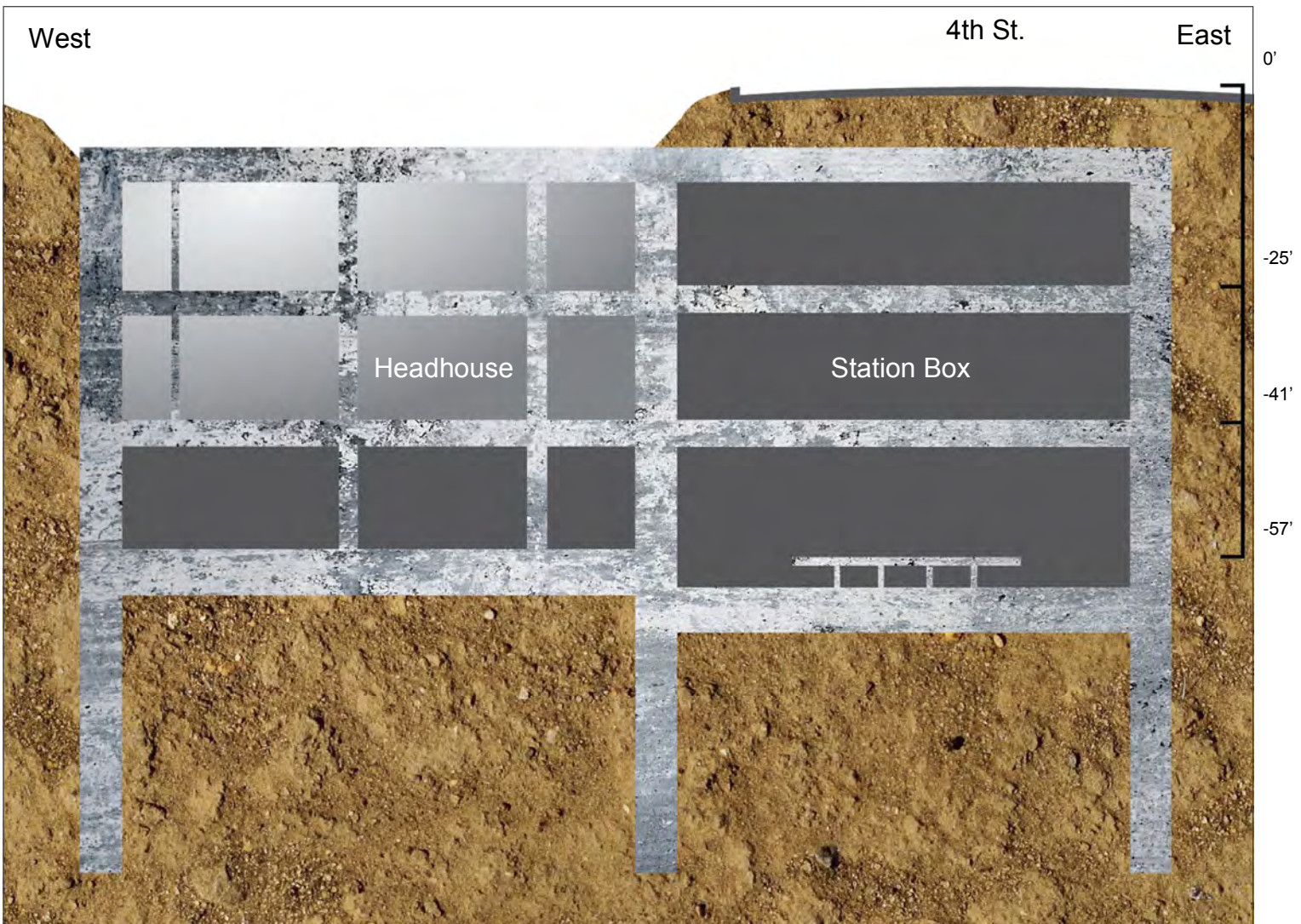
South



West

4th St.

East

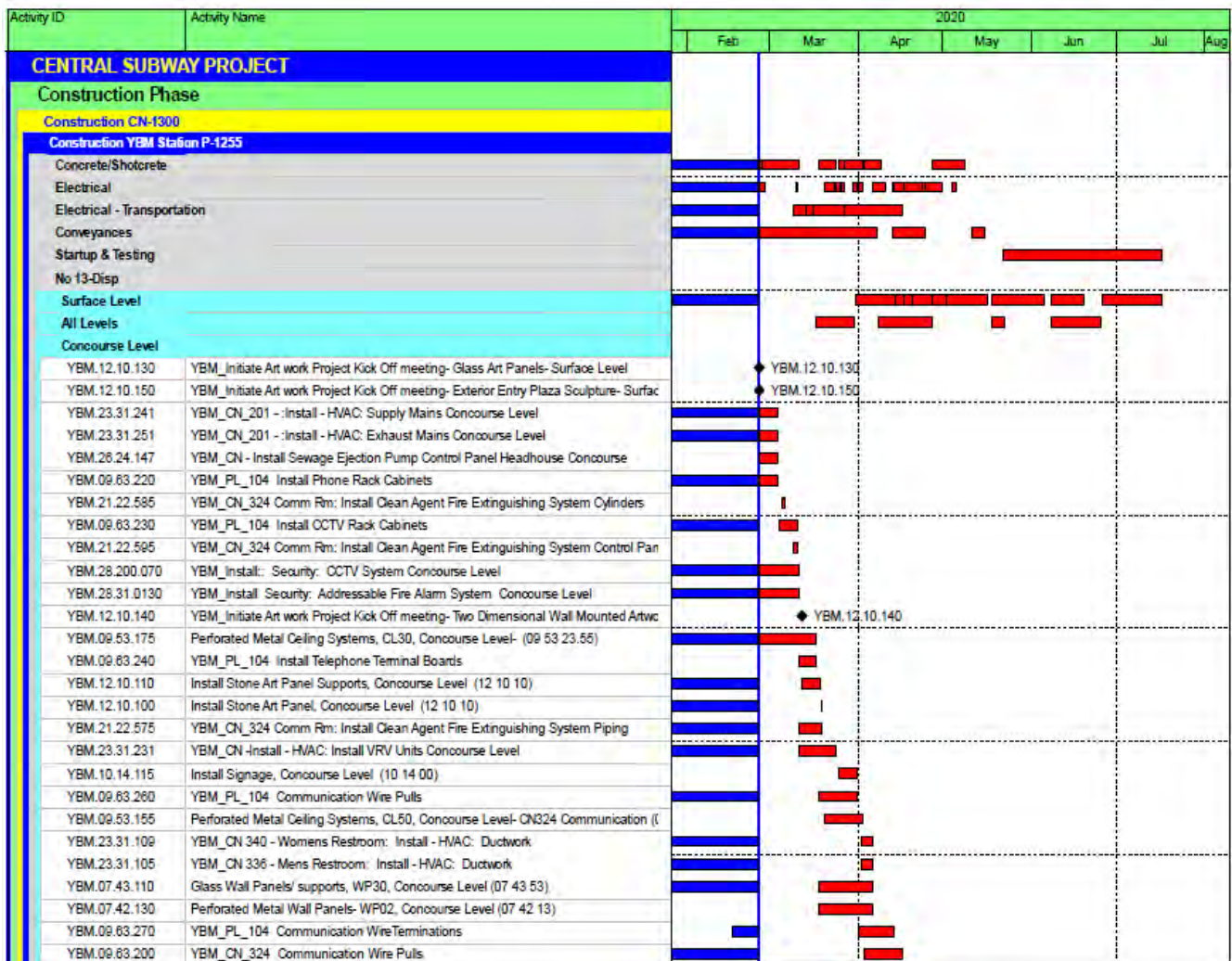


Yerba Buena Moscone Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	June 29, 2020
Contract Award Value:	\$158,089,000
Modifications to Date (\$):	\$3,241,425
Modifications to Date (Days):	870
Current Contract Value:	\$161,330,425

Budget/Expenditures ▲	
Current Budget	\$163,089,000
Other Project Offset Credits	\$415,331
Expenditures to Date	\$154,438,098

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 traction power conduit and other electrical conduit installation inside tunnel
- Continued tunnel lighting installation
- Continued standpipe installation in tunnels and cross passages
- Continued 4th/Brannan platform construction
- Continued pulling traction power feeder cables on surface
- Continued OCS installation on 4th Street and Townsend Street
- Started train case work at 4th/King

Work Expected Next Month

- Continue 4th/Brannan platform construction
- Continue traction power conduit and other electrical conduit installation inside tunnel
- Continue tunnel lighting installation
- Start OCS hanger installation inside tunnel
- Continue walkway installation inside tunnel
- Continue pulling traction power feeder cables on surface
- Continue OCS installation on 4th Street
- Continue train case work at 4th/King
- Start FDC work near 4th Street portal



Three Month Look Ahead

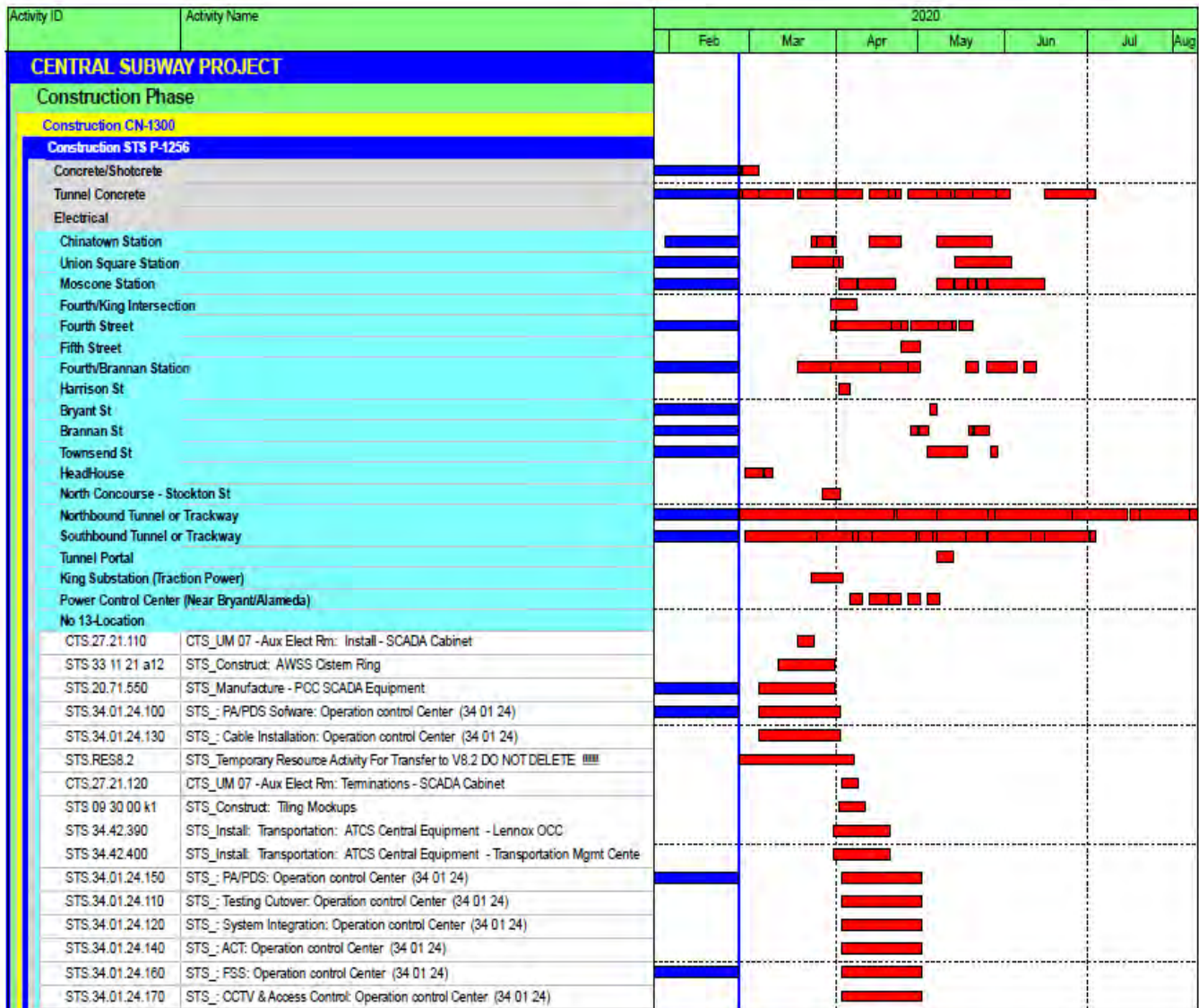
- Complete OCS/street light pole installation
- Continue OCS support/wire installation in tunnel and on 4th Street
- Continue 4th/Brannan platform construction
- Start tunnel walkway stairs installation
- Continue electrical conduit installation inside tunnel
- Continue tunnel lighting installation
- Continue pulling traction power feeder cables on surface
- Continue OCS installation on 4th Street
- Continue train case work at 4th/King
- Start FDC work near 4th Street portal

Systems, Trackwork, & Surface Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	June 29, 2020
Contract Award Value:	\$139,989,000
Modifications to Date (\$):	(\$14,581,253)
Modifications to Date (Days):	870
Current Contract Value:	\$125,407,747

Budget/Expenditures	
Current Budget	\$126,952,290
Other Project Offset Credits	\$2,632,766
Expenditures to Date	\$119,831,981

Systems, Track and Surface Station Three Month Schedule



Program Components

Community Outreach

Outreach public information, events and presentations for January 2020 include:

- Conducted Chinatown Merchant's Meeting
- Continued noise and dust mitigation meetings with Tutor Perini and community stakeholders
- Ongoing outreach to merchants and residents
- Conducted meetings and face-to-face visits with various merchant stakeholders along the alignment
- Preparation and dissemination of construction notices
- Produced quarterly construction update video and other multimedia content
- Responded to constituent complaints

Outreach in Support of Mitigation and Monitoring

- Team members participated in weekly progress to address neighborhood concerns
- Outreach and communication efforts continue in Chinatown, Union Square, and SOMA
- Weekly photo documentation of project work and editing
- Outreach team members met with SF Arts Commission representatives to align public art completion strategy
- Weekly construction update emails sent to list of approximately 700 residents and stakeholders

Media Coverage

Central Subway Media Coverage			
Date	Title (with link to story)	Source	Reporter/
2/21/2020	San Francisco's New Transit Director Taking On City's Gridlock, Central Subway Project Delays	KPIX Channel 5	Gianna Franco
2/27/2020	Muni riders push for North Beach, Fisherman's Wharf, and Marina subway stops	CURBED San Francisco	Adam Brinklow
2/27/2020	SFMTA releases results from Central Subway survey and open houses	Mass Transit Magazine	SFMTA

Quality Assurance

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

Stations and Systems Contract CN1300 Quality Assurance Monitoring Activities

- 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:
 - ◇ Initial: 7 CNCRs are currently posted to the CNCR Log as INITIAL entries. (The Contractor is required to generate a CNCR within 24 hours of becoming aware of what appears to be nonconforming work).
 - ◇ Dispositioned (not acceptable): 27 CNCRs are currently posted to the CNCR Log as DISPOSITIONED (NOT ACCEPTABLE) and have been returned to the Contractor because the RE's review of the Contractor's proposed disposition determined that the proposed disposition is not appropriate and must be revised).
 - ◇ Dispositioned: 14 CNCRs are currently posted to the CNCR Log as DISPOSITIONED and are being reviewed by associated SFMTA RE to verify that the Contractor's proposed disposition is appropriate.

Quality Assurance - Continued

- ◇ Approved: 45 CNCRs are currently posted to the CNCR Log as APPROVED because the suggested REPAIR dispositions have been approved and the CNCRs will remain open until the approved REPAIR procedure is performed
- ◇ Closed: 381 CNCRs are currently posted to the CNCR Log as CLOSED.
- ◇ Voided: 51 CNCRs are currently posted to the CNCR Log as VOIDED (subsequent evaluation of the INITIAL CNCRs determined that a CNCR is not warranted)
- ◇ 525 CNCRs are currently posted to the CNCR Log

Notice of Non-compliance (NCN):

- Project QA has issued 29 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 does not have the required QC staff
- The Contractor does not have QC 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 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 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 quality 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
- CNCR 354, which documents that standard strength and not high strength 115 RE rail has been furnished and installed by Tutor Perini Corporation (TPC) the C1300 Contractor. CNCR 354 was dispositioned as Use-As-Is and was then rejected by SFMTA and returned to TPC QC to address

Quality Assurance - Continued

the requirements of 34 11 14 *Rail*. SFMTA wrote a letter to TPC directing the removal of the non-conforming rail. SFMTA QA was informed by TPC's Project Manager that CNCR 354 would be voided. SFMTA QA's concern is that that CNCR 354 was voided by TPC perceived ambiguities in the contract documents without consideration of other contract document requirements. Non-compliance Notice NCN STS-001 was issued, directing TPC to reinstate CNCR 354. The CNCR has not been reinstated. This issue is being closely monitored by SFMTA

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 February 2020. The members of the Risk Assessment Committee will reconvene in at a later date to review the top risks item in accordance with the risk summary sheet, which have been given a rating by The Committee of six and above.

Currently, thirty-four (34) 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 will continue to follow risks and risks will be monitored 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 is in the process of evaluating the risk, schedule, and cost with FTA to ensure that the program has sufficient schedule and cost contingency.

Top Risks

Risk #	Risk Description	Risk Rating	Contract Phase
255	Water leaks at YBM station, including water in conduits to both electrical room and TP room	10	YBM
251	Physical activities missing (not defined) in the schedule / identify activities of undefined scope	8	STA
205	Prolong period of CMod's creates additional cost/causes bad blood between Resident Engineer and Contractor	8	STA
257	Systems Test Integration between components does not work; fails	8	RS
253	Do not have adequate (subcontractor) resources defined to perform the work to meet schedule performance	6	STA
238	Quality Program is ineffective in processing the nonconformance items causing schedule impacts	6	STA
229	CN1300 System Acceptance Testing takes a prolonged amount of time	6	STA
230	SFMTA Commissioning Coordination (inaccurate time for coordination or participation from Muni Ops)	6	STA
261	Internal Staffing Resource Issue	6	GEN
254	CPUC Field Certification - Not having enough staff to certify the work may slow down the process	6	STA

Program Safety & Security

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

Project Management/Construction Management (PMCM) Team

Safety bulletin boards have subjects covering the daily job briefings. Weekly safety meetings are held on a weekly basis so all staff has an opportunity to attend. We hold a “bagel break” once a month to help generate interest and attendance at the meetings. These monthly meetings have helped to create a real team environment.

Safety Summary for the 1300 Stations Systems Track Construction Package

In February, there were a total of two incidents. Both employees were moving furniture in the office and pulled muscles in their back while moving a piece of furniture. Neither were lost time incidents.

Table 1300 Stations Construction Safety Record

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

Next Month Look Ahead

1300 Contract

1. At CTS, we continue to install overhead conduit, stairs, escalators, CMU wall curb installation, and GFRC panels
2. At UMS, we continue to install stairs, elevators, overhead plumbing, fire protection piping, and overhead fixture and electrical
3. At the YBM station, we continue to install escalators, elevators, piping, EV controls, ceiling, and lights
4. At the STS station, we continue traction power conduit and other electrical conduit installation inside the tunnel.

Program Safety & Security - continued

Project Safety Record - Contract 1300

SAFETY GOALS

Through Month End JAN 2020

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

JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	32	6	38	1.75
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	10	1	11	0.51
Total Project Incidents	42	7	49	2.26
Man Hours Worked Through M/E February 2020	2,037,240	2,294,081	4,331,321	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	1	0	1	1.92
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 February 2020	42,776	61,463	104,239	

* 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 continues to add additional staff in estimating, project control, contract administration, and construction management. These additional staff will supplement the existing staff to properly support ongoing effort to complete the project.



An inspector and a technician check measurements to install steel brackets inside a utility room at the north end of the Union Square/Market Street Station platform.

Staffing

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

	Dec-2019		January 2020		Feb-2019	
	Planned	Actual	Planned	Actual	Planned	Actual
Project Management						
Program Management	6.60	5.25	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	9.90	1.40	9.40	1.40	9.40
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
Subtotal	22.10	22.80	22.10	21.80	22.10	21.80
Construction Management						
CM - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
CM - CN 1300	21.55	28.00	21.55	28.00	21.55	27.50
Design Support - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CN 1300	9.00	13.00	9.00	13.00	9.00	13.00
Subtotal	30.55	41.00	30.55	41.00	30.55	40.50
Start Up						
Start Up / Safety & Security	5.95	1.20	5.95	1.20	5.95	1.20
Subtotal	5.95	1.20	5.95	1.20	5.95	1.20
Total	58.60	65.00	58.60	64.00	58.60	63.50

*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.



A technician installs electrical and communication wiring on an intermediate floor inside the Chinatown Station headhouse.

central **T** subway

Current Construction Activity



Chinatown (CTS)



Union Square/Market Street (UMS)



Yerba Buena/Moscone (YBM)

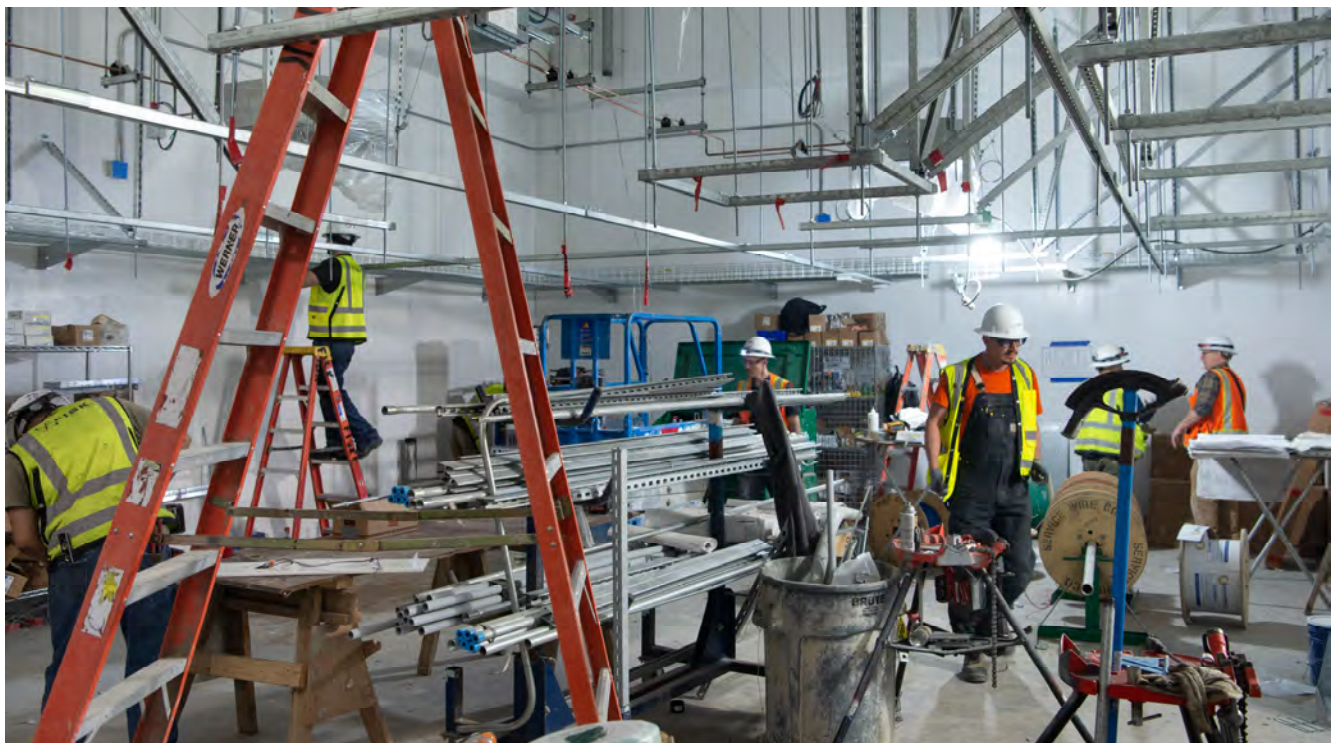


4th St. Surface Track, Systems (STS)





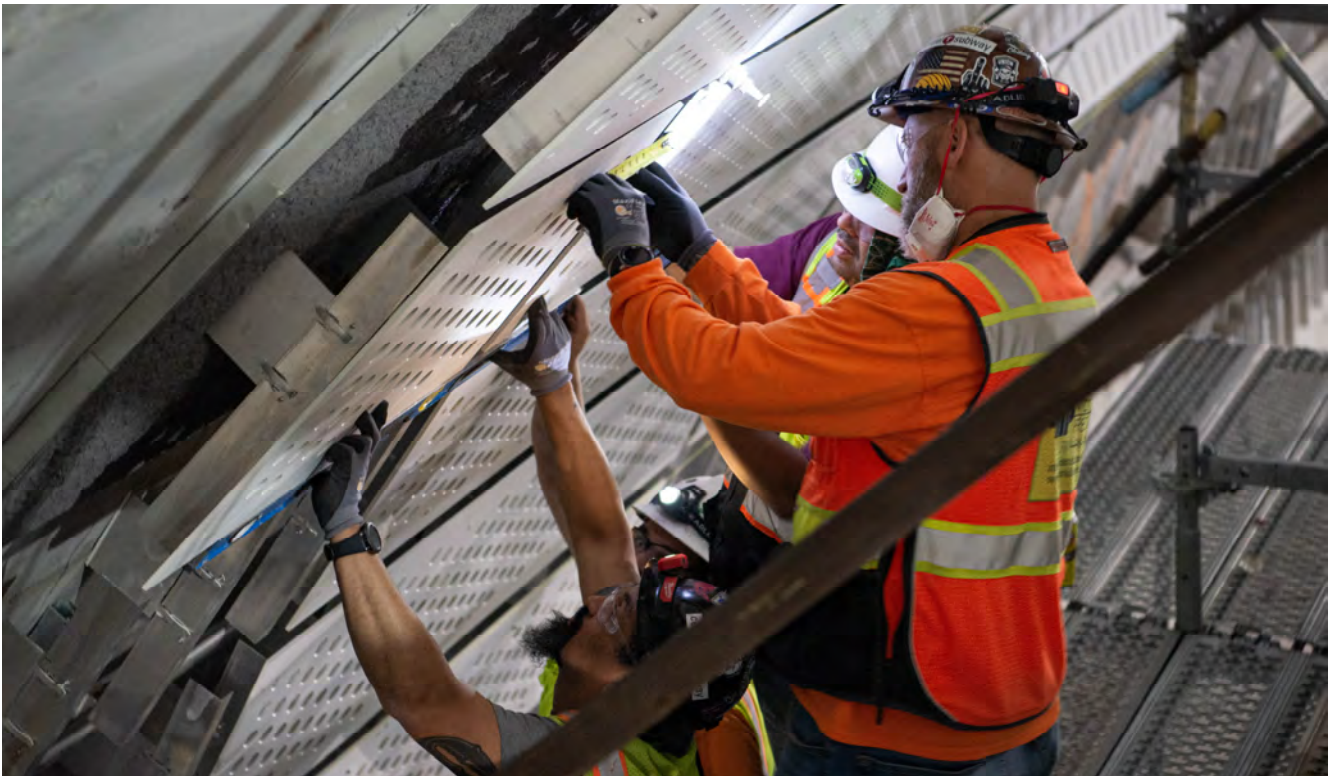
Workers descend the staircase leading from the upper mezzanine into the future Chinatown Station lobby and fare gate area, while steel framing for interior future wall sections is assembled nearby.



Workers install mounting brackets and conduits inside a future utility room for Chinatown Station.



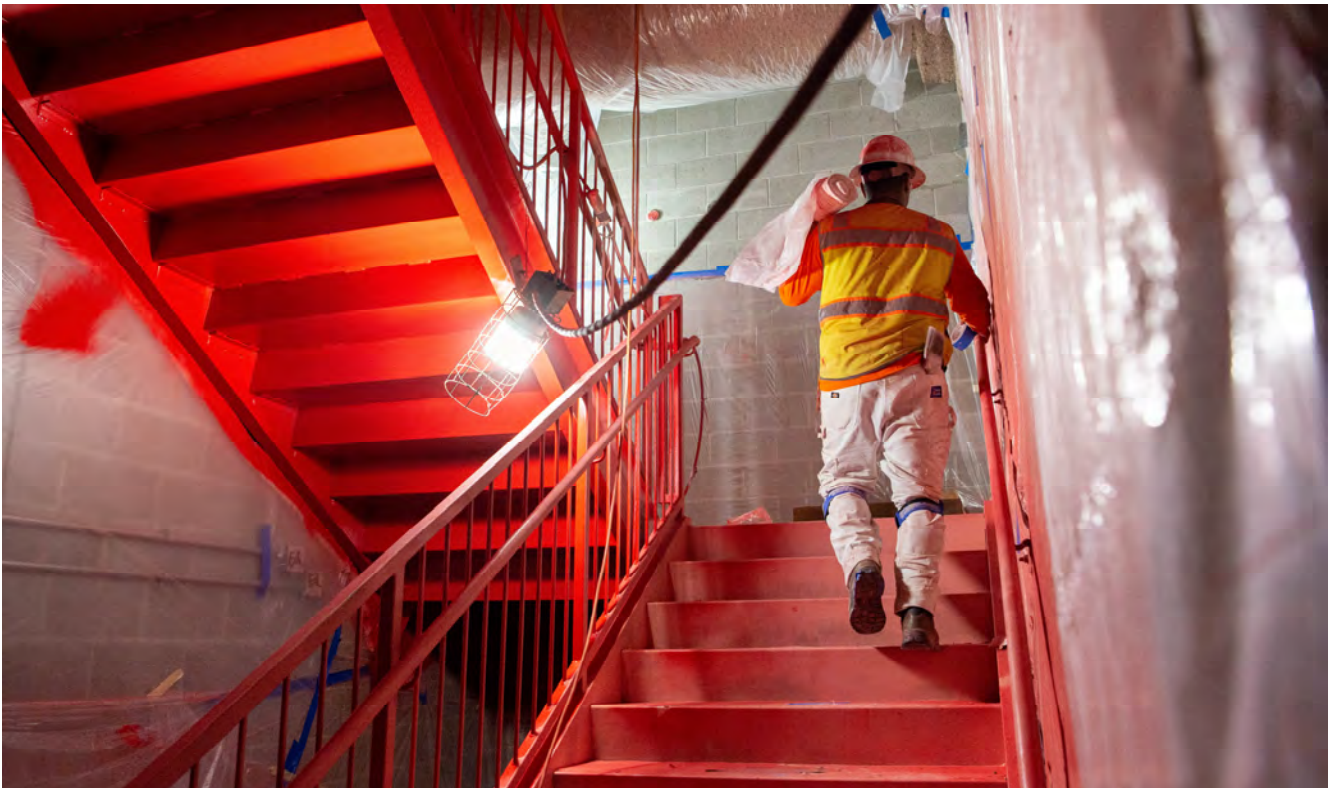
At the north end of the Chinatown Station platform cavern, perforated white panels have been installed with brackets against the arched ceiling and walls.



Perforated panels are installed as part of soundproofing and interior design elements inside Chinatown Station's platform cavern.



Textured concrete steps and terrace blocks are being placed atop concrete foundation walls in the portion of Union Square surrounding the north entrance for Union



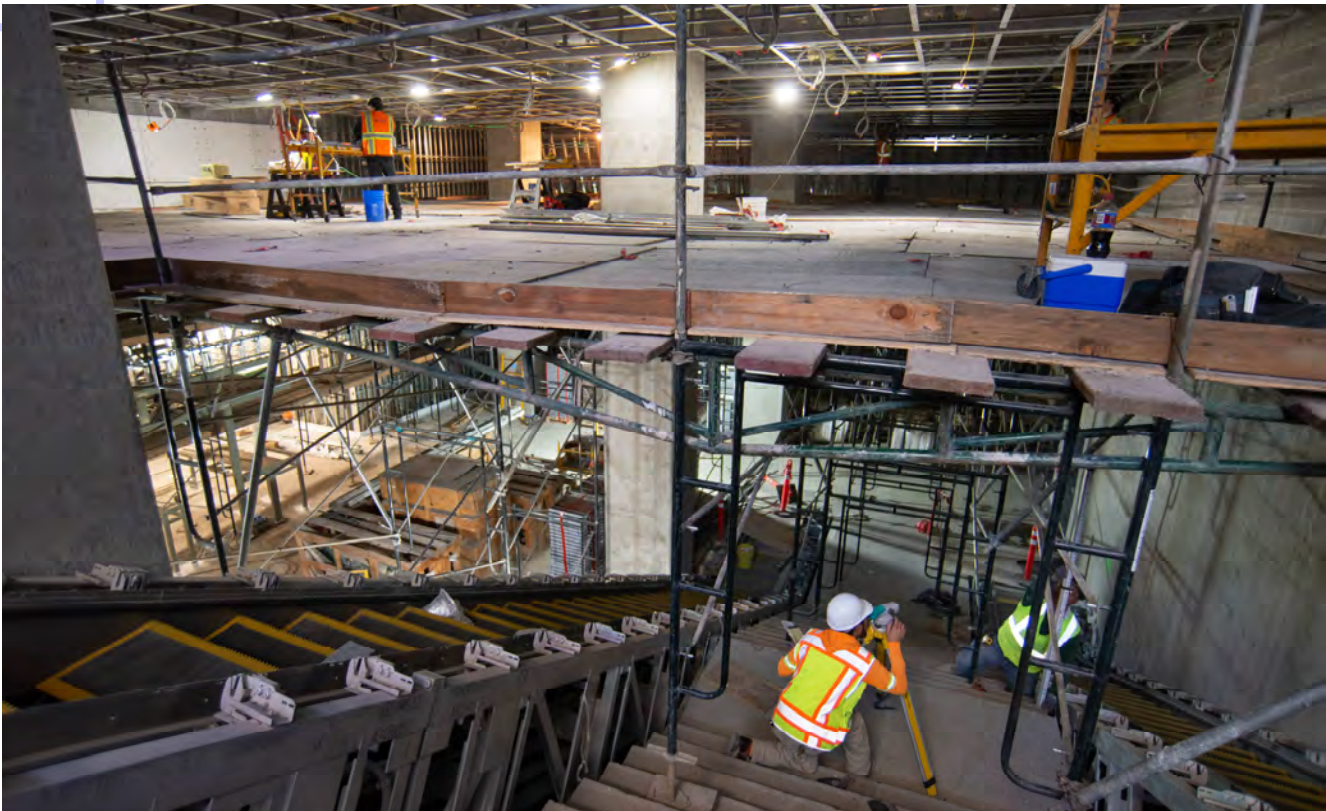
Recently-completed emergency egress stairs at the north end of the Union Square/Market Street Station platform are being painted bright orange to set them apart from regular stairs.



Future message boards and other detailed station elements are being installed on Union Square/Market Street Station's platform level.



Colorful glass panels are being installed atop the north entrance structure for Union Square/Market Street Station.



Surveyors and fabricators work in between scaffolding inside the future lobby area for Yerba Buena/Moscone Station, where steel framing and brackets are being installed for



Workers the west side of the Yerba Buena/Moscone Station concourse measure the height of recently-installed wall panel sections.



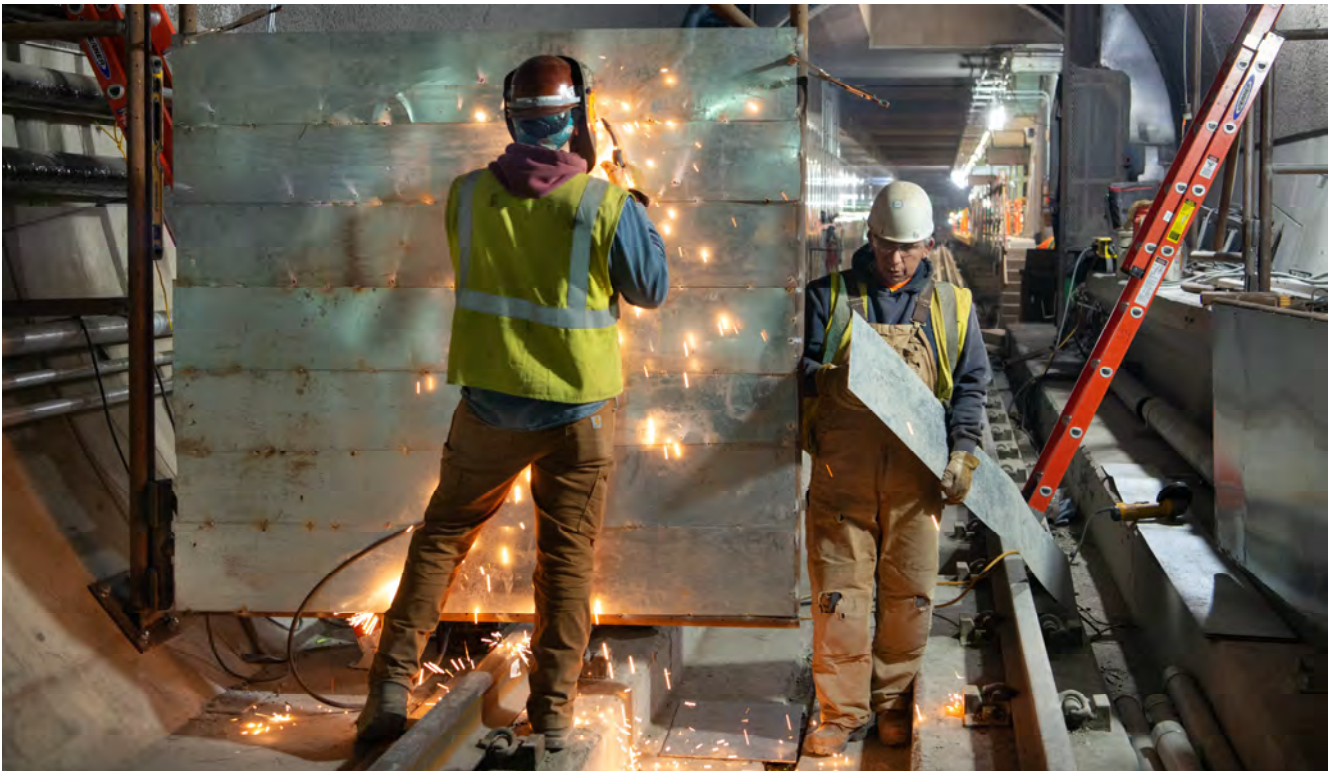
Electronic display boxes are being installed at the north end of Yerba Buena/Moscone Station's platform.



Pieces of steel framing are fabricated and installed piece by piece at the future fare gate entrance area for Yerba Buena/Moscone Station.



Two men install specially-fashioned utility conduits and mounting brackets inside the northbound tunnel S-curve below the Market Street subway.



Steel sheeting is welded to a frame creating a temporary gate inside the southbound tunnel just south of the Yerba Buena/Moscone Station platform.



A worker carries an impact drill during installation of future tunnel walkway railing elements inside the southbound tunnel just north of the Chinatown Station platform area.



Workers install elements of tunnel walkway railing inside the southbound tunnel, just north of the Chinatown Station platform cavern.

Appendix A

DETAIL COST REPORTS

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

1. PROJECT COST

The Current Cost Estimate (CCE) for the Central Subway Project is \$1.578 billion in year of expenditure dollars (\$YOE). This total project cost is shown at the top of Report 7.1, Program Project Budget. This capital cost projection incorporates allocated and unallocated contingencies to cover the risks associated with the project completion. The Program is in the process of evaluating the Program’s Estimate at Completion (EAC) as part of a workshop with FTA. When the report is finalized, the Program will adjust the overall Program budget and contingency.

Total net incurred costs for the project are \$1,509.23 million, a \$20.72 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,458.87 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$33.67 million) and estimates of outstanding pay requests (\$4.20 million). This incurred amount equals 94.3% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,556.74 million and includes Low Carbon Transit Operations Program (LCTOP) Funds FY2019/2020 \$4,000,000 and Proposition B (City of San Francisco Adjusting Transportation Funding for Population Growth) FY2020 \$3,191,063 appropriated in September 2019 . This represents 98.7% of the total project budget and we anticipate the addition of \$21,558,937 to complete the funding of the program.

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.1*	0	3/31/2016	\$ -
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	117	11/30/2019	\$ 318,393.71
CS155.2*	118	12/31/2019	\$ 318,393.71
CS155.2*	119	1/31/2020	\$ 318,393.71
CS155.2*	120	2/29/2020	\$ 318,393.71
CS155.3	113	8/31/2019	\$ 99,661.34
CS155.3	114	9/30/2019	\$ 144,362.82
CS155.3	115	10/31/2019	\$ 118,101.17

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.3	116	11/30/2019	\$ 123,796.64
CS155.3	117	12/31/2019	\$ 155,939.80
CS155.3*	118	1/31/2020	\$ 155,939.80
CS155.3*	119	2/29/2020	\$ 155,939.80
CN1300	74	1/31/2020	\$ 13,866,511.00
CN1300	75	2/29/2020	\$ 19,015,263.00
CS149*	132	11/30/2019	\$ 1,115,437.72
CS149*	133	12/31/2019	\$ 1,115,437.72
CS149*	134	1/31/2020	\$ 1,115,437.72
CS149*	135	2/29/2020	\$ 1,115,437.72
other accruals*		2/29/2020	\$ (1,856,137.03)

* Estimated Amount \$ 37,889,313.06

2. CONTINGENCY ALLOCATIONS AND USAGE

The current Total Project Contingency is negative \$17.24 million. The Contingency Drawdown Curve is shown in Report 7.3. Follows by Report 7.4 Contingency Management Trend Report with the Remaining Contingency after Approved Changes Deducted contingency items in column “i”.

In this reporting period, both Contract 1252 Tunnel and CN1300 Station did not process any contract modifications. Refer to Report 7.5 for approved contract modifications and potential changes.

3. BUDGET TRANSFERS

No budget transfers in this reporting period.

4. FORM B

The Utilities Joint Trench Form B Details is listed in the Table A2 below. Total utilities joint trench Form B Reimbursement payment to three construction contracts is \$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
TOTAL	(12,227,954)	12,507,414	

5. EARNED VALUE (EV) ANALYSIS

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

Preliminary February Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,588,254,431
Earned Value:	\$1,470,315,958
Actual Cost:	\$1,509,231,338
Schedule Performance Index (SPI):	0.93
Cost Performance Index (CPI):	0.97
Percent Complete:	92.3%

SFMTA, EV Chart

FEBRUARY 29, 2020 Update

Activity ID	Activity Name	Start	Finish	Performance % Complete	Budgeted Total Cost	Planned Value Cost (PV)	Earned Value Cost (EV)	Actual Total Cost (AC)	CPI	SPI
CENTRAL SUBWAY PROJECT										
	Preliminary Engineering Phase	03-Jun-03 A	30-Aug-23	92.27%	\$1,578,299,999.95	\$1,598,254,431.25	\$1,470,315,958.07	\$1,509,231,337.75	0.97	0.93
	Final Design	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
	Light Rail Vehicles	08-Jan-10 A	17-Jun-13 A	100%	\$115,075,987.10	\$115,075,987.06	\$115,075,987.06	\$113,950,952.17	1.01	1.00
	Real Estate	15-Apr-13 A	20-Aug-20	8.25%	\$16,800,000.00	\$26,385,653.00	\$2,177,131.58	\$11,929,246.72	0.18	0.08
	Construction Phase	01-Aug-08 A	15-May-15 A	100%	\$32,140,417.71	\$37,405,895.00	\$37,405,895.00	\$30,543,064.53	1.22	1.00
	Construction Support and Costs	03-Jan-10 A	05-Sep-22	93.41%	\$1,360,858,864.80	\$1,353,325,378.68	\$1,269,114,883.41	\$1,306,266,013.80	0.97	0.94
	Construction Utility Contract #1- MOS & Fernal CN-1250	03-Jan-10 A	05-Sep-22	97.82%	\$210,224,127.80	\$199,862,849.06	\$195,506,443.28	\$200,660,789.67	0.97	0.98
	Construction Utility Contract #2- UMS CN-1251	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 Tunnels CN-1252	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 STS F-1256 ATCS	08-Jun-11 A	26-Feb-20	93.05%	\$233,511,253.03	\$251,069,047.23	\$233,608,974.28	\$233,511,253.34	1.00	0.93
	Construction STS P-XXXX Radio	20-May-14 A	04-Feb-21	11.81%	\$18,036,709.00	\$15,601,190.55	\$2,129,643.60	\$50,000.00	42.59	0.14
	Construction CN-1300	27-Aug-19 A	03-Nov-20	0.8%	\$4,809,852.50	\$2,833,768.26	\$38,735.60	\$32,098.00	1.21	0.01
	Unallocated Contingency	03-Jun-13 A	25-Feb-21	94.48%	\$861,639,691.00	\$851,195,791.59	\$805,088,354.65	\$839,374,641.32	0.96	0.95
	Project Management	26-Feb-20	15-Sep-21	0%	\$6,882,669.00	\$9,519,456.49	\$0.00	\$0.00	0.00	0.00
		16-Sep-21	30-Aug-23	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))
Prelim. Engineering	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
Final Design	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
Procurement	Planned Delivery Date	Actual Delivery Date	Time Keeping; Vendor Accruals and Invoices
Real Estate	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor/ Material Accruals and Invoices
Construction	Schedule of Work	% Complete* x Budget at Completion (BAC)	Vendor Accruals and Invoices
Sub-Total	Performance Measurement Baseline (PMB)	Total Earned Value	Total Actual Cost
Below the Line	+ Contingency		
Total	Approved Budget		

6. FUNDING SUMMARY

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

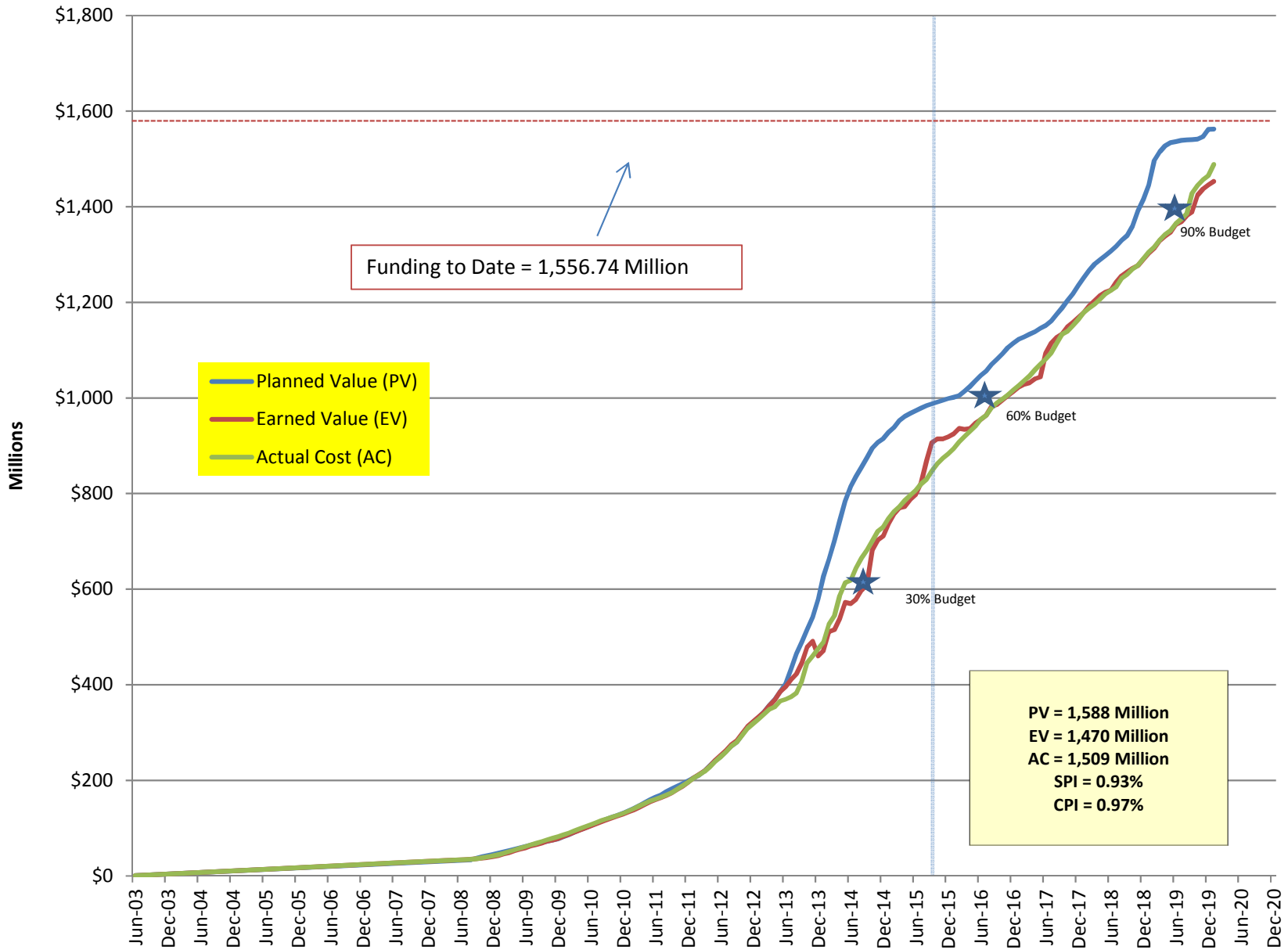
Funding Available Table		
	Funding	
	Committed Funding Sources	Total Awarded Funds to Date
Federal		
Sect. 5309-NS	\$942,200	\$942,200
Sect. 5307-OBAG	\$15,980	\$15,980
CMAQ	\$41,025	\$41,025
Federal Subtotal	\$999,205	\$999,205
State		
TCRP	\$14,000	\$14,000
State RIP	\$12,498	\$12,498
Prop. 1B (I-Bond) PTIMSE	\$308,601	\$307,792
Prop. 1A (HSR-Bond)	\$61,308	\$61,308
State Subtotal	\$396,407	\$395,598
Local		
LCTOP	\$4,000	\$4,000
Operating	\$4,970	\$0
MTA	\$0	\$0
Prop. B Pop Baseline	\$26,985	\$16,055
Prop. K	\$143,542	\$138,692
TSF Transit	\$3,191	\$3,191
Local Subtotal	\$182,688	\$161,938
CPT 544 Total	\$1,578,300	\$1,556,741

7. LIST OF COST REPORTS

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

A. Central Subway Project						
Project	Name	Amount	PM	Funding Source	Reporting	Cost Report Notes
1	CPT544 Central Subway Project	\$1,578,300,000	J. Funghi	62% Fed, 30% State, 8% Local	yes	1
Total:		\$1,578,300,000				
B. Related SFMTA Capital Improvement Projects						
Project	Name	Amount	PM	Funding Source	Reporting	
2	CPT690 TBM Retrieval Shaft Relocation	\$9,700,000	Funghi/Magary	MTA Operating Funds	no	2
3	CPT718 Chinatown Metro Plaza	\$6,980,000	J. Funghi	Transbay Redevelopment	no	3
4	CPT665 Central Subway Project - Goodwill	\$2,367,750	K. Magary	I-Bond Interest	no	4
5	CPT705 MOH - Broadway/Sansome	\$8,000,000	K. Magary	MTA Operating Funds	no	5
Total:		\$27,047,750				
C. Central Subway Project - Project Offset Credits						
	From	Amount	Index	Notes	Reporting	
1	2009-2016 Utility Co. - Form B Reimbursement	\$12,227,954	--	Construction contracts	yes	6
2	2017-2019 PG&E - Power Feed Reimbursement	\$7,624,540	--	Not yet bill PG&E	yes	7
3	6/26/2013 BART Elevator	\$90,000	68CPT544135B	Not yet rec'd BART Funds	yes	8
4	11/6/2013 Tutor Perini - CAD Files	\$2,500	68CPT5441236	Deposit to Design Index	yes	9
5	1/27/2014 SFPUC - Sewer Main	\$2,925,296	68W251	Certified in Contract 1300	yes	10
6	8/27/2014 SFMTA Traffic Effectiveness Project funded	\$694,651	68W324/686D42	Contract 1252 CMod #40	yes	11
7	9/27/2014 SFPUC - 24" Water Main	\$328,860	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	\$4,455,188	68CPT7181341	partial	yes	17a
Total:		\$29,150,797				

Earned Value Cash Flow Curve

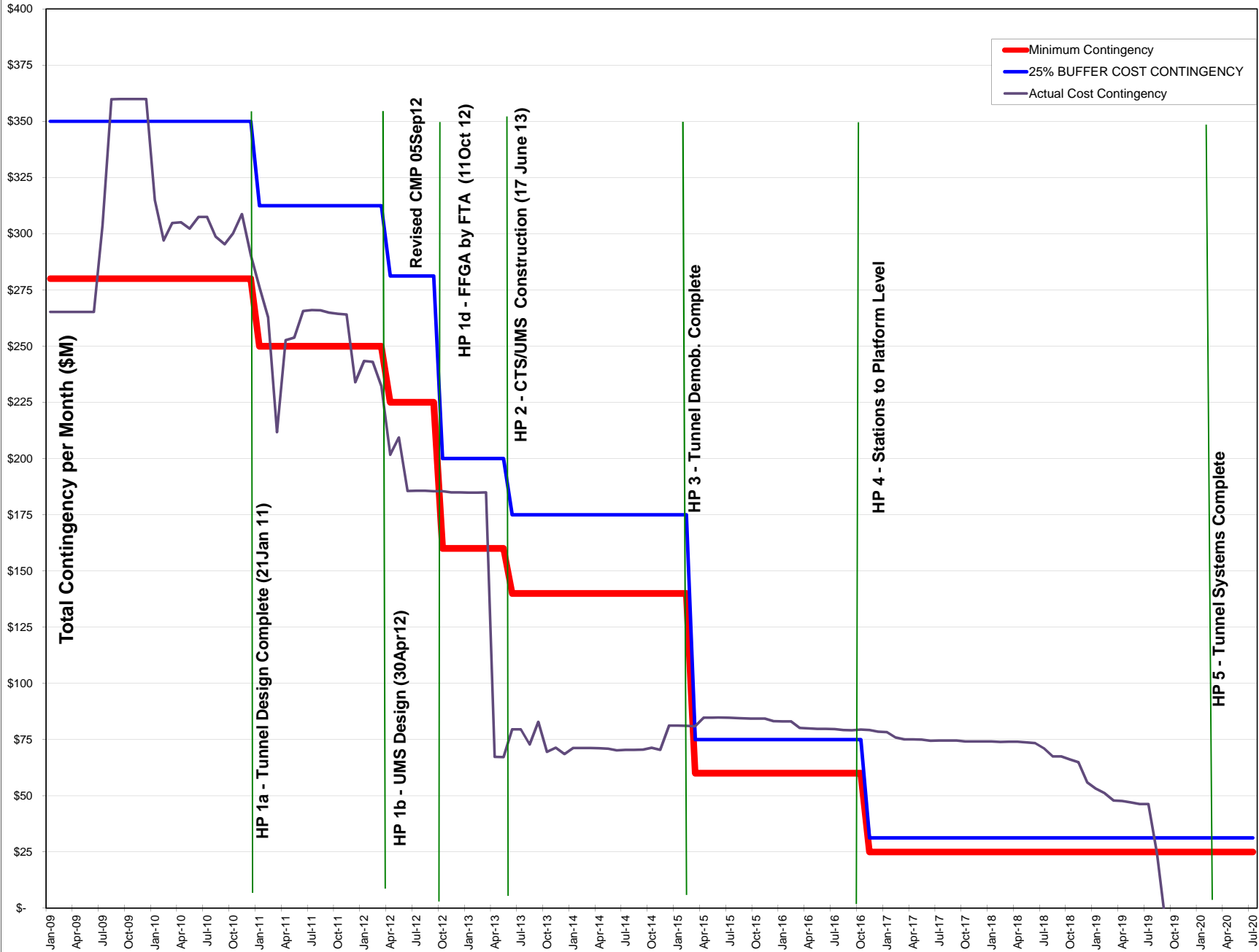


Funding to Date = 1,556.74 Million

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

PV = 1,588 Million
EV = 1,470 Million
AC = 1,509 Million
SPI = 0.93
CPI = 0.97%

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	REMAINING CONTINGENCY AFTER POTENTIAL CHANGES DEDUCTED [i - d]	ORIGINAL CONTRACT VALUE + REVISED AUTHORIZED CONTINGENCY	BUDGET - ESTIMATE AT COMPLETE	
	a	b	c	d	e	f	g	h	i	j	j	k	
SCC 10-50 CONSTRUCTION CONTRACT PACKAGES													
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	48,604,326	888,280,726	14,275,203	902,555,929	20,000,000	20,000,000	21,963,291	(26,641,035)	(40,916,238)	(40,916,238)	21
	1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	7,744,337	301,774,927	4,605,597	306,380,524	5,000,000	15,000,000	20,000,000	12,255,663	7,650,067	7,650,067	
	1254 CHINA TOWN STATION [CTS]	247,567,810	52,199,817	299,767,627	861,518	300,629,145	5,000,000	5,000,000	10,000,000	(42,199,817)	(43,061,335)	(43,061,335)	22
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	3,241,425	161,330,425	1,975,076	163,305,501	5,000,000		5,000,000	1,758,575	(216,501)	(216,501)	
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	(14,581,253)	125,407,747	6,833,012	132,240,760	5,000,000		(13,036,709)	1,544,544	(5,288,469)	(5,288,469)	
OTHER		38,239,187	23,938,659	62,177,846		62,177,846	1,160,000	1,060,000	25,098,659	1,160,000	1,160,000	1,160,000	23
	SCC 10 - 50 Construction Sub-total	1,137,848,462	79,000,965	1,216,849,427	14,275,203	1,231,124,630	52,139,137	(3,461,158)	53,519,929	(25,481,035)	(39,756,238)	(39,756,238)	24
SCC 60-80 SOFT COSTS PACKAGES													
60	ROW, LAND, EXISTING IMPROVEMENTS	36,511,799	(4,265,478)	32,246,321		32,246,321	1,000,000	(1,000,000)	0	0	0	0	25
70	VEHICLES	24,108,712	(7,308,712)	16,800,000		16,800,000	2,276,941	(2,276,941)	0	0	0	0	26
80	PROFESSIONAL SERVICES	310,518,041	19,126,155	329,644,196		329,644,196	18,221,079	(16,862,657)	1,358,422	1,358,422	1,358,422	1,358,422	26a
	SCC 60 - 80 Construction Sub-total	371,138,552	7,551,965	378,690,517	0	378,690,517	21,498,020	(20,139,598)	1,358,422	1,358,422	1,358,422	1,358,422	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	7,608,606	11,454,551	6,882,669	6,882,669	6,882,669	27
TOTAL		1,508,987,014	86,552,930	1,595,539,944	14,275,203	1,609,815,147	77,483,102	(15,992,150)	66,332,902	(17,239,944)	(31,515,147)	(31,515,148)	
											Total Project Budget	1,578,300,000	28
											Estimate At Completion	1,609,815,147	29
											Variance	(31,515,148)	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				\$888,280,726
Substantial Completion	44,011				6/29/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES
Potential Changes	4,605,597	861,518	1,975,076	6,833,012	31
Change Order - Pending					
Job Readiness - CTS		(195,000)			
Job Readiness - STS				(70,000)	
Job Readiness - UMS	(195,000)				
Job Readiness - YBM			(70,000)		
PCC 300 - Radio Direct costs				150,001	
STS COR 1908 Cnfrm Crss Psg Sump Pu				8,415	
STS PCC #020 Deletion of ARS				(2,578,966)	
STS PCC 052 Deletion of ARS Pt II				(93,893)	
STS PCC 552 ATCS Clarification				4,000,000	
UMS COR 1938 Plaza Vent Wall Slab C	29,000				
UMS PCC 263 LED artwork	393,571				
YBM COR 1952 Missing Framing Detail			7,982		
YBM PCC 318 Station Door Hardware M			824,267		
Change Order Request (COR)					
CTS COR 1655 Track Slab Pour Delay		0			
CTS COR 1674 Stem Walls Pour Delay		0			
CTS COR 1682 Panelboard Shop Drawin		0			
CTS COR 1742 DSC/Notice of Delay Ex		0			
CTS COR 1743 Stair 1 & Escalators 1		271,242			
CTS COR 1760 Flat Jack System		0			
CTS COR 1774 Addnl Beam & Rebar		0			
CTS COR 1781 Flooring Sealer		0			
CTS COR 1966 Add'l Revision to Elev		1,978			
CTS COR 2003 Confirm Elev 3&4 Hoist		0			
CTS COR 2008 Revised Sprnklr Piping		0			
CTS COR 2009 Fire Prctn Pipe Routi		0			
CTS COR 2013 Confirm Revised Routin		0			
CTS COR 2022 Box Strut Cnnctn Confl		0			
CTS COR 2023 Concrete Header at Gri		0			
CTS COR 2024 Generator Tap Box Alt		0			
CTS COR 2031 FP Mount Det Below Esc		0			
CTS COR 2034 DBAs at Inverted Curb		0			
CTS COR 2035 Slab Edge Type at Inve		0			
CTS COR 2036 Sloped Perm Slab Tie-l		0			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

839,676,400
44,011

\$888,280,726
6/29/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 2042 Surface Slab Opening D		0			
CTS COR 2047 Air Transfer Balance		0			
CTS COR 2049 Inverted Curb Tie In		24,724			
CTS COR 2051 Platform Level Sector		0			
CTS COR 2054 Changes to HSS 18x6 GI		0			
CTS COR 2058 Cntrct Dsgn Cmpln T24		0			
CTS COR 2060 Cone Wall Tie-in at La		0			
CTS COR 2063 CMU Wall Btwn Stair 4		0			
CTS COR 2066 EV Damper Cnflct w Sta		0			
CTS COR 2071 PCC 050 Stair Tread Re		0			
STS COR 1959 Assembly of Moto Ohtak				0	
STS COR 2056 Power Feed for Cross				0	
STS COR 2068 STS Signage Product Da				0	
STS COR 2075 4th & Brannan Station				0	
UMC COR 2079 Finish Below Steel at	0				
UMS COR 1921 Fire Safing CMU Wall	0				
UMS COR 1944 Close Mezz Lvl Opening	0				
UMS COR 1975 EV Fan Control Panel 1	31,936				
UMS COR 1977 Traffic Signal Switcho	0				
UMS COR 1989 Kiosk Bases	16,567				
UMS COR 2012 Wall Tile Tolerance &	0				
YBM COR 2017 Power & Light Req			0		
YBM COR 2039 CAT 6 RJ-45 Keystone C			0		
YBM COR 2045 Lifting Bars for PC Mn			5,098		
YBM COR 2048 Correction of Wall Pan			(65,036)		
YBM COR 2053 Confirm Revised Stair			0		
YBM COR 2055 F3 Light Fixture Mount			0		
YBM COR 2059 Painting in Spinkler P			5,225		
YBM COR 2061 PG&E Primary Power Ene			0		
YBM COR 2062 Change Door to Include			5,457		
YBM COR 2065 Added Cladding to Esca			0		
YBM COR 2070 Chng Metal Door Panels			0		
YBM COR 2085 Closure of CMU Wall Op			0		
YBM COR 379 (E) Ductbank Conflict			1,001		
Negotiation					
CTS COR 1621 HVAC 120VAC Requiremen			0		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

839,676,400
44,011

\$888,280,726
6/29/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 1757 Stair 2 Support for Pr		0			
CTS COR 1798 S. Egress Waterproofin		0			
CTS COR 1810 Aluminum Roll Up Door		0			
CTS COR 1827 PA Mounting Detail		0			
CTS COR 1858 Crosscut Cavern CC Lvl		0			
CTS COR 1886 Specs for Alum. Comp.		0			
CTS COR 1889 Redesign of AWSS at Wa		0			
CTS COR 1898 Concrete Wall Rebar to		0			
CTS COR 1899 Fire Protection Sprink		0			
CTS COR 1900 Platform OH Ductwork C		0			
CTS COR 1904		0			
CTS COR 1909 Embed Plates Added at		0			
CTS COR 1924 Main Power Grating		0			
CTS COR 681 Crss Cut Cvrn SEM Excvn		30,001			
CTS COR 923 Esc Equip Room Size		0			
CTS PCC 207 SEM Sequencing Changes		0			
CTS PCC 493 CMU Walls		0			
CTS PCC 548 Spot Acceleration		64,828			
CTS PCC 564 Mods to Underplatform W		166,983			
CTS PCC 613 Beam Connection Details		6,217			
CTS PCC 659 Slab Ext. & Steel Beam		17,577			
CTS PCC 662 GFRC-Z Channel Revision		210,796			
PCC 575 CTS Emergency Command		5,578			
STS COR 1075 U Wall Section Slab				2,001	
STS COR 1116 Live Ductbank in Cnflt				7,500	
STS COR 1201 Unkwn Stl Conduits				12,500	
STS COR 1251 Shal Util Trak Slab				65,000	
STS COR 1268 FH Install NE 4th Brya				3,501	
STS COR 1276 Install Culvert 4th Br				(3,527)	
STS COR 1278 MRY Vault Cables				25,000	
STS COR 1320 Accel Sewer Work				15,000	
STS COR 1333 Changes to Marquee				1,748	
STS COR 1364 Culvert Confl Trk Drn				1,001	
STS COR 1545 ATCS Signal Recommenda				1	
STS COR 1615 Public Safety Comms				1	
STS COR 1634 Sewer Confl Light Pole				1,000	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$888,280,726
Substantial Completion	44,011	6/29/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 1700 Reject O&M Submittals				15,000	
STS COR 1709 SFFD Phones				25,001	
STS COR 1739 Delete (4) gas line ca				(1)	
STS COR 1765 Add'l Electrical Labo				1	
STS COR 1782 ALL Access Cntrl & Int				25,000	
STS COR 1789 Utility Conflicts w/WD				0	
STS COR 1804 Structural Support Det				2,500	
STS COR 1812 Added Costs SFMTA				747,783	
STS COR 1816 Trackway Info for PAV				0	
STS COR 1874 PAV Headend Train Mvmt				0	
STS COR 1876 OCC Facility Sys Cutov				0	
STS COR 211 SW conf AWSS 4th/Freelo				2,281	
STS COR 220 DSC Relocate MRY DB&Vlt				10,358	
STS COR 406 Addtl TC at 4th/King				200,760	
STS COR 682 Shtdown #1 Rail Mods				4,716	
STS COR 787 AT&T Dct Bnk InCw N 36"				17,500	
STS COR 813 Permissive Signal				5,001	
STS COR 852 Caltrans Encrocmnt Prmt				(1)	
STS COR 890 Ex Pll Box Incon Crb Rm				1,501	
STS COR 909 PGE Gas Interruption				29,350	
STS COR 927 E Gas Conf w N CB				1,500	
STS COR 930 SW Cracks Conf w Grout				2,500	
STS COR 962 4th/King Incomp Hrdwr				17,224	
STS COR 999 E 18" Steel Pipe Confli				0	
STS PCC 052 Deletion of ARS Pt II				(93,893)	
STS PCC 223 4th and King Advnc Wrk				16,366	
STS PCC 552 ATCS Clarification				4,000,000	
UMS COR 1460 Removal of CB on UD302	343				
UMS COR 1479 Incorr Sewer Laterals	2,501				
UMS COR 1672 Missing Branch Selecto	5,001				
UMS COR 1677 Damper Opening Curb	2,501				
UMS COR 1753 Stair Framing Conflict	5,001				
UMS COR 1893 All Sta Martinez Steel	575,000				
UMS COR 1910 Schindler Elev Delay Cl	3,326,593				
UMS COR 1917 Cncrs Sec 2 Lghtng Cnt	15,000				
UMS COR 1922 SCADA Analog Connecti	20,000				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$888,280,726
Substantial Completion	44,011	6/29/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
UMS PCC 561 Add Struts for Curved M	50,000				
UMS PCC 692 Elevator 3&4 Code Requi	48,405				
YBM COR 1348 Added Rebar Dowels int			1,979		
YBM COR 1454 Changes to Heat Recove			6,001		
YBM COR 1618 Instrum & Cntrl for HV			0		
YBM COR 1640 Topping Slab Design De			13,347		
YBM COR 1906 Best Construction Delay			891,792		
YBM COR 390 Chip Mezzanine Headwall			30,003		
YBM PCC 560 Elevator Ledge Beveling			8,393		
YBM PCC 591 ECP Access Panel and Ro			5,579		
YBM PCC 59R Pavers Basis of Design			3,758		
YBM PCC 610 Replc Phn Cabinet Racks			47,930		
YBM PCC 647 Size Chng for Invert Dr			11,067		
YBM PCC 82 Delete Scope Due to Hote			(19,513)		
Proposed Contract Change (PCC)					
CTS PCC 119 Pltform Lvl Wall Art In		(1)			
CTS PCC 360 HVAC Ductwork Conflict		12,500			
CTS PCC 456 Throat Size and Anchor		0			
CTS PCC 471 Additional 120 VAC Powe		3,500			
CTS PCC 486 Structural Slab Changes		5,000			
CTS PCC 589 Sequence of Operation R		0			
CTS PCC 593 Station Benches Change		500			
CTS PCC 606 Duct Conflict		7,500			
CTS PCC 614 Reverse Airflow Switch		1,158			
CTS PCC 630 Framing for the Panels		5,000			
CTS PCC 664 Finish for LMZ01 & PL09		2,500			
CTS PCC 667 Finish for room PL18		10,000			
CTS PCC 669 PL19 Rev. for Esc. 1&2		5,000			
CTS PCC 670 Stair #5 landing Plaza		10,000			
CTS PCC 673 Reroute of Conduits		0			
CTS PCC 674 Routing Drainpipe		500			
CTS PCC 675 Underplatform Level Door		10,000			
CTS PCC 676 Elevator Louver Size		5,000			
CTS PCC 680 Slab tie in details_		20,000			
CTS PCC 682 Concrete header at GL 8		15,000			
CTS PCC 689 Curb to Beam Conn.		23,000			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$888,280,726
Substantial Completion	44,011	6/29/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS PCC 690 Waterplug in MER		5,000			
CTS PCC 691 HSS & PL Conn Rev		2,500			
CTS PCC 696 Slab Opening		10,000			
CTS PCC 698 Drain Pipe and PGE Conf		5,000			
CTS PCC 705 FCN 01.1 Shotcrete		7,440			
CTS PCC 706 Relocate CMU Wall		0			
CTS PCC661 Revise PL15B Door Swing		250			
CTS PCC663 Reduce Door RF01A Height		250			
STS PCC 306 Adv Track Slab Excav				2,500	
STS PCC 481 NL Drainage and Bulkhea				15,000	
STS PCC 551 4th Brannan Refuge Area				25,000	
STS PCC 592 Pltfrm Lvl Sctrs Rqst				500	
STS PCC 618 Mod Swoosh Arm P1 P2				7,500	
STS PCC 639 Spot Acceleration				25,000	
STS PCC 672 Dlt Spare & Fiber Rack				15,336	
STS PCC 695 Train Track Comp Cost				122,500	
UMS PCC 007 Geoprobe Credit	(15,160)				
UMS PCC 181 Plaza ADA Enhancements	37,500				
UMS PCC 225R2 Add Btry Bckp B/F Drs	20,000				
UMS PCC 394 Mezz. Corridor and Beam	0				
UMS PCC 495 Sprinklers at BART Entra	7,025				
UMS PCC 620 Stl Tube Spprt Wall Sys	2,500				
UMS PCC 622 Fill Runnel Gap	15,000				
UMS PCC 624 R/F Cncrt Pad FHC base	10,000				
UMS PCC 644 Instll 42" Grd Barrier	27,500				
UMS PCC 646 LED Light & Ceiling Pan	27,500				
UMS PCC 650 Install SFMTA DT Cndts	10,000				
UMS PCC 654 Install Neutral Wire	5,000				
UMS PCC 655 Door Framing Revisions	10,000				
UMS PCC 657 Relocate TP Conduits	10,000				
UMS PCC 660 Increase Depth of Wall	15,000				
UMS PCC 666 Restore Eyebolt for OCS	12,500				
UMS PCC 679 Reloc Duct Pnetrtn Loc	5,000				
UMS PCC 681 Revisions to Vent Shaft	25,000				
UMS PCC 686 Revise Precast Bench D	13,500				
UMS PCC 697 Instll Sump Pit Cvr	5,000				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400				\$888,280,726
Substantial Completion	44,011				6/29/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES
UMS PCC 701 Rmv Paint App Veneer PI	0				
USG PCC 158 Elev. Pit CDF Backfill	6,035				
YBM PCC 541 Close Opng Door CN324			12,500		
YBM PCC 579 Vent Shaft Roof Curb He			5,000		
YBM PCC 590 Relocation of MCC-JF			12,500		
YBM PCC 594R1 Water Intrusion			150,000		
YBM PCC 599 Dltn of Ceillng Panels			0		
YBM PCC 627 Instll Fire-Rated Clngs			0		
YBM PCC 634 Stair 2 Revisions			12,500		
YBM PCC 636 Install Thermostats in			27,500		
YBM PCC 638 Runnel gap at Escalator			25,000		
YBM PCC 642 Install Drainage Str 3			5,000		
YBM PCC 645 Misc Elctrcl Revision			10,000		
YBM PCC 677 Replace CCTV Terminatio			750		
YBM PCC 678 CMU Wall Under Elv Pit			0		
YBM PCC 708 Elev Con Rm Sprinklers			0		
Approved	7,744,337	52,199,817	3,241,425	(14,581,253)	
Contract Modification					
CMod # 14 YBM COR 036, 078			58,526		
CMod #017 CTS CORs 001 053 & 069		54,322			
CMod #018 CTS PCC 012		60,248			
CMod #021 STS CORs 48/52/114/233/252				18,221	
CMod #025 - Various CORs			59,113		
CMod #026 YBM COR 072			84,509		
CMod #027 UMS PCC 092	0				
CMod #028 CTS PCC 017.1		97,743			
CMod #029 STS PCC 009.1				(143,668)	
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	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400				\$888,280,726
Substantial Completion	44,011				6/29/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES
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	
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 #13 CTS COR 006		57,707			
CMod #15 YBM COR 196			3,178		
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				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400				\$888,280,726
Substantial Completion	44,011				6/29/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES
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)		
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		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400				\$888,280,726
Substantial Completion	44,011				6/29/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES
CMod #74 UMS PCC 39 12" Wtrln Reloc	336,236				
CMod #75 UMS COR 060 New 8" Wtr Line	58,672				
CMod #76 YBM COR 806 Gardril credits			(9,611)		
CMod #77 STS Various Changes				56,629	
CMod #78 STS Various DSC CORs				191,175	
CMod #79 STS PCC 014 Traffic Signal				242,427	
CMod #80 STS Add'l Work to DSCs CORs				111,701	
CMod #87 CTS Var Slurry Wall Changes		3,596,000			
CMod #88 STS Various COR Misc Work				38,346	
CMod #89 YBM CORs 390,485 & 848			85,095		
CMod #9 YBM COR 10,15,16,18,20,25			126,663		
CMod #90 CTS DRB Reimbursement		1,296,364			
CMod #91 YBM PCC 069			84,537		
CMod #92 CTS PCC 233 & 26		1,126,478			
CMod #93 STS Coordinate of ATCS Work				(18,036,709)	
CMod #94 UMS Various Changes	46,057				
CMod #95 UMS Bart Elv Opt 2 Add Cost	400,000				
CMod #96 UMS Comp Grout Quantities	775,000				
CMod #97 STS COR 322 Tunnel Cleaning				399,000	
CMod #98 YBM PCC 76 AWSS SSFM			163,113		
CMod #99 UMS Various Changes	996,584				
CMod 073 - PCC 066 PB				96,516	
CMOD 24 STS PCC 23				108,053	
CMod#119: UMS: Various Changes PCC 110, 124, 127 190, 191, 247, and 429	131,687				
CMod#120: UMS: PCC 122R1 - UMS 1 1/2 inch Drain Piping Grout Details - Dowel Support	560,280				
CMod#121: YBM: Various Changes COR 825, 1359, 1610 and PCC 320R1			142,904		
CMod#7 STS FACOs 016, 017 & COR 009				80,170	
CMod#8 STS PCC 006 ATT MH, PB&Trench				225,208	
CTS CMod #122 Schedule Delay Costs		31,240,000			
STS CMod 045 PCC 008 Tunnel Lowering				107,285	
Grand Total	12,349,934	53,061,335	5,216,501	(7,748,240)	

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

Report Period: February 2020

		January 2019			February 2020				
Group by Contract & SCC	CATEGORY ITEM	January 2019 Base	January 2019 Allocated Contingency	January 2019 Base + Allocated Contingency (YOE)	February 2020 Base	February 2020 Allocated Contingency	February 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [February 2020] vs. [January 2019]	Cost Report Notes
10-50	CONSTRUCTION CONTRACT PACKAGES	1,212,007,477	(25,481,035)	1,191,368,392	1,212,007,477	(25,481,035)	1,191,368,392	0	
1250	UTILITY RELOCATION PACKAGE #1	12,134,906		12,134,906	12,134,906		12,134,906	0	
	Contract 1250 Form B Credit	(2,275,419)		(2,275,419)	(2,275,419)		(2,275,419)	0	
1251	UTILITY RELOCATION PACKAGE #2	20,744,696		20,744,696	20,744,696		20,744,696	0	
	Contract 1251 Form B Credit	(7,618,412)		(7,618,412)	(7,618,412)		(7,618,412)	0	
1252	GUIDEWAY TUNNEL	233,511,253	0	233,511,253	233,511,253	0	233,511,253	0	32
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
1300	CN1300 STATIONS TOTAL	888,280,726	(26,641,035)	861,639,691	888,280,726	(26,641,035)	861,639,691	0	33
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	301,774,927	12,255,663	314,030,590	301,774,927	12,255,663	314,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	299,767,627	(42,199,817)	257,567,810	299,767,627	(42,199,817)	257,567,810	0	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	161,330,425	1,758,576	163,089,001	161,330,425	1,758,576	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	125,407,747	1,544,543	126,952,290	125,407,747	1,544,543	126,952,290	0	
	STS 1256 SFPUC SEWER MAIN CREDIT	(2,925,296)		(2,925,296)	(2,925,296)		(2,925,296)	0	
	STS 1256 Form B Credit	(1,000,000)		(1,000,000)	(1,000,000)		(1,000,000)	0	
OTHER	OTHER CONSTRUCTION TOTAL	77,331,096	1,160,000	78,491,096	77,331,096	1,160,000	78,491,096	0	
40.06	PUBLIC ART PROGRAM	8,175,555	1,160,000	9,335,555	8,175,555	1,160,000	9,335,555	0	
40.08	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	14,611,285		14,611,285	14,611,285		14,611,285	0	34a
50.01	CN1266-1 Advanced Train Control System (ATCS) - Equipment	3,425,424		3,425,424	3,425,424		3,425,424	0	34a
50.06	MTA FARE COLLECTION EQUIPMENT	5,400,000		5,400,000	5,400,000		5,400,000	0	
50.06	BART FARE COLLECTION EQUIPMENT	700,000		700,000	700,000		700,000	0	

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

Report Period: February 2020

		January 2019			February 2020				
Group by Contract & SCC	CATEGORY ITEM	January 2019 Base	January 2019 Allocated Contingency	January 2019 Base + Allocated Contingency (YOE)	February 2020 Base	February 2020 Allocated Contingency	February 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [February 2020] vs. [January 2019]	Cost Report Notes
40.02	JOB ORDER CONTRACTS (JOCS) - CONSTRUCTION	117,255		117,255	117,255		117,255	0	
40.08	AON RISK INSURANCE	25,094,436		25,094,436	25,094,436		25,094,436	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	ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	0	32,246,321	32,246,321	0	32,246,321	0	
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	VEHICLES	16,800,000	0	16,800,000	16,800,000	0	16,800,000	0	
70.01	LIGHT RAIL	16,800,000	0	16,800,000	16,800,000	0	16,800,000	0	36
80	PROFESSIONAL SERVICES	329,644,196	1,358,422	331,002,618	329,644,196	1,358,422	331,002,618	0	
80.01	PRELIMINARY ENGINEERING	46,202,674		46,202,674	46,202,674		46,202,674	0	
80.02	FINAL DESIGN	61,318,331		61,318,331	61,318,331		61,318,331	0	
80.03	PROJECT MANAGEMENT FOR DESIGN & CONSTRUCTION	89,244,281	0	89,244,281	89,244,281	0	89,244,281	0	36a

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

Report Period: February 2020

		January 2019			February 2020				
Group by Contract & SCC	CATEGORY ITEM	January 2019 Base	January 2019 Allocated Contingency	January 2019 Base + Allocated Contingency (YOE)	February 2020 Base	February 2020 Allocated Contingency	February 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [February 2020] vs. [January 2019]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	109,991,299	0	109,991,299	109,991,299	0	109,991,299	0	36a
80.05	INSURANCES	6,800,000		6,800,000	6,800,000		6,800,000	0	
80.06	LEGAL: PERMITS. REVIEW FEES BY OTHER AGENCIES	8,212,604		8,212,604	8,212,604		8,212,604	0	
80.07	SURVEYS, TESTING, INVESTIGATION. INSPECTION	933,100		933,100	933,100		933,100	0	
80.08	START-UP	6,941,907	1,358,422	8,300,329	6,941,907	1,358,422	8,300,329	0	
	ALL SCC CATEGORIES 10 TO 80	1,590,697,994	(24,122,613)	1,571,417,331	1,590,697,994	(24,122,613)	1,571,417,331	0	37
90	UNALLOCATED CONTINGENCIES			6,882,672			6,882,672	0	38
	TOTAL PROJECT COST 10 TO 100			1,578,300,003			1,578,300,003		
	TOTAL CONTINGENCY			(17,239,941)			(17,239,941)		
	CONTINGENCY MINIMUM			25,000,000			25,000,000		
	BELOW OR ABOVE MINIMUM			(42,239,941)			(42,239,941)		

COST STATUS BY CATEGORY	SCC CODES	Sum of Supplemental 2013 Budget	BUDGET January 2019	BUDGET TRANSFERS	BUDGET February 2020	Sum of February 2020	Remaining Budget (Column H - Column I)	February 2020 EAC	February 2020 Contingency	Cost Report Notes
		A	B	C	D	E	F	G	H	
GUIDEWAY & TRACK ELEMENTS	SCC 010	282,227,872	284,261,448	-	284,261,448	282,530,231	1,731,218	284,854,025	0	39
STATIONS, STOPS, TERMINALS, INTERMODAL	SCC 020	573,099,645	541,663,144	-	541,663,144	531,057,924	10,605,220	573,399,798	(26,641,035)	39
SITework & SPECIAL CONDITIONS	SCC 040	235,514,097	264,806,024	-	264,806,024	267,607,595	(2,801,571)	264,029,165	1,160,000	39
SYSTEMS	SCC 050	90,774,397	100,637,776	-	100,637,776	73,622,168	27,015,608	108,841,642		39
ROW, LAND, EXISTING IMPROVEMENTS	SCC 060	37,511,799	32,246,321	-	32,246,321	30,648,969	1,597,352	32,246,321		
VEHICLES	SCC 070	26,385,653	16,800,000	-	16,800,000	11,929,247	4,870,753	16,800,000	0	
PRELIM ENGINEERING	SCC 080.01	46,202,673	46,202,674	-	46,202,674	46,202,675	(1)	46,202,674		
FINAL DESIGN	SCC 080.02	61,137,604	61,318,331	-	61,318,331	61,199,308	119,023	61,318,331		
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	197,146,664	199,235,580	-	199,235,580	191,599,604	7,635,975	199,235,580	0	39
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,416,118	24,246,033	-	24,246,033	12,833,619	11,412,414	22,887,611	1,358,422	
UNALLOC CONTINGENCY	SCC 090	3,883,480	6,882,669	-	6,882,669		6,882,669		6,882,672	39
Grand Total		1,578,300,000	1,578,300,000	-	1,578,300,000	1,509,231,338	69,068,662	1,609,815,147	(17,239,941)	

SCC DESCRIPTION	February 2020 BUDGET	February 2020 CTD
010 - GUIDEWAY & TRACK ELEMENTS	284,261,448	282,530,231
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	541,663,144	531,057,924
040 - SITEWORK & SPECIAL CONDITIONS	264,806,024	267,607,595
050 - SYSTEMS	100,637,776	73,622,168
060 - ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	30,648,969
070 - VEHICLES (number)	16,800,000	11,929,247
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	331,002,618	311,835,206
090 - UNALLOCATED CONTINGENCY	6,882,669	
Grand Total	1,578,300,000	1,509,231,338

SCC DESCRIPTION	February 2020 BUDGET	February 2020 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	2,855,000
010.06-Guideway: Underground cut & cover	69,816,407	69,117,301
010.07-Guideway: Underground tunnel	200,374,315	199,366,635
010.09-Track: Direct fixation	6,761,089	6,741,658
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	6,053,338
020.02-Aerial station, stop, shelter, mall, terminal, platform	1,544,543	0
020.03-Underground station, stop, shelter, mall, terminal, platform	500,843,668	506,454,694
020.04-OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0
020.07-Elevators, escalators	22,311,892	18,549,892
040.01-Demolition, Clearing, Earthwork	12,754,615	12,495,015
040.02-Site Utilities, Utility Relocation	68,753,443	78,360,781
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	9,423,125	9,115,789
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	968,066
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	5,120,045
040.07-Automobile, bus, van accessways including roads, parking lots	6,579,099	6,395,653
040.08-Temporary Facilities and other indirect costs during construction	153,675,418	152,445,815
050.01-Train control and signals	28,291,363	32,138,486
050.02-Traffic signals and crossing protection	12,804,956	12,032,441
050.03-Traction power supply: substations	21,465,073	18,668,921
050.04-Traction power distribution: catenary and third rail	12,441,113	2,946,774
050.05-Communications	16,920,685	6,347,177
050.06-Fare collection system and equipment	6,100,000	627,988
050.07-Central Control	2,614,586	860,381
060.01-Purchase or lease of real estate	30,065,810	28,239,539
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	16,800,000	11,929,247
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,199,308
080.03-Project Management for Design and Construction	82,244,281	79,580,951
080.04-Construction Administration & Management	116,991,299	112,018,654
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	5,605,986
080.07-Surveys, Testing, Investigation, Inspection	933,100	887,437
080.08-Start up	8,300,329	0
090.00-Unallocated Contingency	6,882,669	
Grand Total	1,578,300,000	1,509,231,338

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		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
TOTAL PRELIMINARY ENGINEERING	46,542,061	46,542,061	0	0	46,542,061	0	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	33,825	0	0	33,825	0	
23 - CITY ATTORNEY'S OFFICE	1,234,754	1,234,754	0	0	1,234,754	0	
24 - RISK MANAGEMENT	0	0	0	0	0	0	
26 - PLANNING	99,604	99,604	0	0	99,604	0	
27 - DEPARTMENT OF PUBLIC HEALTH (DPH)	4,420	4,420	0	0	4,420	0	
29 - CITY AUDITOR	336,735	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 14	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 GALLAGHER & 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 (SFCT)	0	0	0	0	0	0	
TOTAL FINAL DESIGN	115,075,988	113,950,952	0	0	113,950,952	1,125,035	
11 - SFMTA PROJECT MANAGEMENT	16,500,000	16,303,245	393,560	81,037	16,384,281	115,719	
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	16,500,000	16,303,245	393,560	81,037	16,384,281	115,719	
12 - SFMTA ENGINEERING SERVICES	2,923,582	2,851,236	19,523	13,584	2,864,820	58,762	
1.3.012.02.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1252	123,582	57,648	0	0	57,648	65,934	
1.3.012.06.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1300	2,800,000	2,793,588	19,523	13,584	2,807,172	(7,172)	
13 - SFMTA CONSTRUCTION MANAGEMENT	25,432,035	22,527,245	416,082	113,484	22,640,730	2,791,305	
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	25,432,035	22,527,245	416,082	113,484	22,640,730	2,791,305	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	2,661,448	26,832	628	2,662,076	1,613,228	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	318,291	3,367	445	318,736	(19,136)	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	142,816	4,115	0	142,816	132,084	

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1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	218,532	6,026	184	218,716	19,684	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	282,536	13,324	0	282,536	594,340	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B86]	0	204,261	0	0	204,261	(204,261)	
1.3.016.06.040.02 - DPT:DPT TRAFFIC SHOP CONTRACT 1300	1,200,000	0	0	0	0	1,200,000	
1.3.016.08.040.08 - DPT:PCOS:2UTL [68A]	400,728	400,728	0	0	400,728	0	
1.3.016.08.040.08 - DPT:SSD CN:2UTL	0	108,020	0	0	108,020	(108,020)	
1.3.016.08.080.04 - DPT:SSD [1326]	252,536	252,536	0	0	252,536	0	
1.3.016.08.080.04 - DPT:SSD [13BN]	23,302	23,302	0	0	23,302	0	
1.3.016.08.080.04 - DPT:SSD [13CN]	963	963	0	0	963	0	
1.3.016.08.080.04 - DPT:SSD [B85]	92,008	92,008	0	0	92,008	0	
1.3.016.03.040.08 - PCOS:1300/UMS [68CPT544132W.CPT544132W]	0	163,405	0	0	163,405	(163,405)	
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	245,049	0	0	245,049	(245,049)	
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	104,500	0	0	104,500	235,063	
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	36,749	0	0	36,749	63,251	
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300 - UMS O/L	50,255	53,069	0	0	53,069	(2,814)	
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300/UMS	249,745	14,681	0	0	14,681	235,063	
19 - OTHER SFMTA	1,000,000	945,836	0	0	945,836	54,164	
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	1,800	1,720	0	0	1,720	80	
1.3.019.08.040.08 - OTH.MTA 1251 MATERIALS	150,000	126,149	0	0	126,149	23,851	
1.3.019.08.080.07 - OTH.MTA OPERATION SUPPORT DURI	848,200	817,966	0	0	817,966	30,234	
21 - ARTS COMMISSION	12,010,886	5,986,605	69,549	13,120	5,999,725	6,011,161	
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCTION C	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.C	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	871,434	6,643	7,822	879,256	(44,992)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFUNA.C	10,149	11,093	0	0	11,093	(944)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.C	4,439	4,439	0	0	4,439	0	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT5441327.CPTS	1,393,660	1,393,660	0	0	1,393,660	0	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA.CPTS	3,011,963	3,305,348	62,906	5,297	3,310,645	(298,682)	
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	2,125,634	0	0	2,125,634	46,147	
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	2,125,634	0	0	2,125,634	46,147	
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	

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1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	26,697	0	0	26,697	110,365	
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	4,166,108	39,714	643	4,166,752	75,260	
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	510,208	0	0	510,208	(111,808)	
1.3.028.02.080.04 - PUC:MTA CSP CN1252 [470465]	105,000	91,587	0	0	91,587	13,413	
1.3.028.03.040.02 - PUC:CDD CONTRACT 1300/UMS SUPPORT	606,354	632,056	0	0	632,056	(25,702)	
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	34,508	0	0	34,508	195,492	
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	201,959	0	0	201,959	69,796	
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	55,773	0	0	55,773	59,227	
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	493,268	138	643	493,911	(43,629)	
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	98,643	0	0	98,643	85,357	
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	225,079	249,247	0	0	249,247	(24,168)	
1.3.028.07.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1250	248,035	291,501	0	0	291,501	(43,466)	
1.3.028.07.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1250	74,468	113,844	0	0	113,844	(39,376)	
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1251	0	39,576	39,576	0	39,576	(39,576)	
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1251	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	484,348	0	0	484,348	35,729	
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	257,294	0	0	257,294	(50,294)	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	1,150,459	552,486	5,912	0	552,486	669,628	
1.3.032.01.080.04 - CM:DPW:1424J-BUREAU OF ENGINEERING (BOE) [AB1	(285,405)	(285,405)	0	0	(285,405)	0.00	
1.3.032.03.080.04 - DPW IDC HYDRAULIC CN1300 UMS SUPPORT	297,938	127,548	3,782	0	127,548	170,390	
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	1,266	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	251,654	864	0	251,654	(71,654)	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	6,703,969	6,345,071	0	0	6,345,071	358,898	
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) [1321	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	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	465,562	158,741	0	0	158,741	306,821	
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	

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1.3.036.02.080.06 - DPW:MPPG:DPW-BUREAU OF ST USE [13CF]	48,433	92,977	0	0	92,977	(44,544)	
37 - DPW - PCS MATERIAL TESTING LABORATORY	83,100	0	0	0	0	83,100	
1.3.037.01.080.07 - DPW.MTL.LABDPW-MATERIAL TESTIN	83,100	0	0	0	0	83,100	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	613,853	438,455	0	0	438,455	175,398	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2213]	92,459	92,459	0	0	92,459	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2250]	78,400	78,400	0	0	78,400	0	
1.3.039.01.080.04 -DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2257]	151,515	151,515	0	0	151,515	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2313]	24,343	24,343	0	0	24,343	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION	58,757	10,109	0	0	10,109	48,648	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CE13]	31,367	31,367	0	0	31,367	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CH13]	100,000	8,621	0	0	8,621	91,379	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	17,000	0	0	0	0	17,000	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN	18,632	16,880	0	0	16,880	1,753	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN	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	644,071	480	6,520	650,591	120,252	
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	607,316	0	6,281	613,597	83,156	
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	24,777	480	239	25,016	29,984	
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM TRAI	9,090	10,923	0	0	10,923	(1,833)	
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 14	65,720,187	60,868,105	1,115,438	1,069,917	61,938,022	3,782,166	
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]	7,310,184	5,568,022	0	0	5,568,022	1,742,162	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3i][PM]	2,590,785	1,392,006	0	0	1,392,006	1,198,779	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3j]	7,000,000	7,289,183	652,351	746,020	8,035,203	(1,035,203)	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3j][PM]	2,000,000	1,822,296	163,088	186,505	2,008,801	(8,801)	
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)	

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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	2,974,444	0	0	2,974,444	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9j]	3,000,000	977,380	299,998	137,391	1,114,771	1,885,229	
1.3.063.01.080.04 - FD:CM:EPC JV CS49-PM [123A]	5,579,945	5,579,945	0	0	5,579,945	0	
1.3.063.97.080.03 - AECOM.CS149 ALLOCAT CONTING	0					0	
64 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855	61
1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855	
67 - HILL INTERNATIONAL CONTRACT 156	3,031,391	2,910,922	0	(62,104)	2,848,817	182,574	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1336]	920,426	920,426	0	0	920,426	0	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1337]	533,148	533,148	0	0	533,148	0	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. [1330]	127,261	127,261	0	0	127,261	0	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2016 [68CPT5441340]	883,631	883,631	0	0	883,631	(0)	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2017 [68CPT5441346]	566,925	446,457	0	(62,104)	384,352	182,573	
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	255,144	0	0	255,144	244,856	62
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	255,144	0	0	255,144	244,856	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	2,158,846	2,229,169	130,295	(13,280)	2,215,889	(57,043)	
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	63
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	2,158,846	2,316,371	130,295	(13,280)	2,303,091	(144,245)	
72 - STATIONS - CONTRACT # CONTRACT 155-2	14,612,416	19,487,282	292,268	104,503	19,591,785	(4,979,369)	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	51,351	59,497	0	0	59,497	(8,146)	64
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	14,561,065	19,427,786	292,268	104,503	19,532,289	(4,971,224)	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	5,131,214	128,177	296,482	5,427,695	(599,426)	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1236]	90,000	89,791	0	0	89,791	209	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1334]	4,738,269	5,041,423	128,177	296,482	5,337,905	(599,636)	
81 - UTILITIES RELOCATION #1 (PORTAL & MOS) - CONTRACT 1250	11,968,150	11,968,150	0	0	11,968,150	0	
1.3.081.07.040.01 - UR1.CONTRACT 1250:SITWORK: DEMOLIT	167,458	167,458	0	0	167,458	0	
1.3.081.07.040.02 - UR1.CONTRACT 1250:SITWORK: UTILITI	10,099,341	10,099,341	0	0	10,099,341	0	
1.3.081.07.040.03 - UR1.CONTRACT 1250:SITWORK:HAZMAT	453,321	453,321	0	0	453,321	0	
1.3.081.07.040.08 - UR1.CONTRACT 1250:SITWORK:TEMPORAR	1,248,030	1,248,030	0	0	1,248,030	0	
82 - UTILITIES RELOCATION #2 (UMS) - CONTRACT 1251	20,669,081	20,669,081	0	0	20,669,081	(0)	65
1.3.082.08.040.01 - UR2.CONTRACT 1251:SITWORK: DEMOLIT	752,240	752,240	0	0	752,240	0	
1.3.082.08.040.02 - UR2.CONTRACT 1251:SITWORK:UTILITI	10,202,543	10,202,543	0	0	10,202,543	(0)	
1.3.082.08.040.03 - UR2.CONTRACT 1251:SITWORK:HAZMAT	172,712	172,712	0	0	172,712	0	
1.3.082.08.040.05 - UR2.CONTRACT 1251:SITWORK: STRUCTU	2,706,431	2,706,431	0	0	2,706,431	0	
1.3.082.08.040.06 - UR2.CONTRACT 1251:SITWORK:PEDESTRA	319,317	319,317	0	0	319,317	0	
1.3.082.08.040.07 - UR2.CONTRACT 1251:SITWORK:AUTO/BUS	190,362	190,362	0	0	190,362	0	
1.3.082.08.040.08 - UR2.CONTRACT 1251:SITWORK:TEMP FAC	6,325,476	6,325,476	0	0	6,325,476	0	

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GUIDEWAY TUNNELS TOTAL	233,511,253	233,511,253	0	0	233,511,253	0	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE	233,584,015	233,584,015	0	0	233,584,015	0	66
1.3.083.02.010.06 - CONTRACT 1252:GUIDEWAY:UNDERGRND CUT	60,446,425	60,446,425	0	0	60,446,425	0	
1.3.083.02.010.07 - CONTRACT 1252:GUIDEWAY:UNDERGROUND	105,423,090	105,423,090	0	0	105,423,090	0	
1.3.083.02.020.03 - CONTRACT 1252: STATIONS: UNDERGROUND	21,685,000	21,685,000	0	0	21,685,000	0	
1.3.083.02.040.01 - CONTRACT 1252:SITWORK:DEMO CLEARING	2,440,000	2,440,000	0	0	2,440,000	0	
1.3.083.02.040.02 - CONTRACT 1252:SITWORK:UTILITIES & RE	10,895,000	10,895,000	0	0	10,895,000	0	
1.3.083.02.040.03 - CONTRACT 1252:SITWORK:HAZMAT&MITIGAT	200,000	200,000	0	0	200,000	0	
1.3.083.02.040.04 - CONTRACT 1252:SITWORK:ENVIRON. MITIG	300,000	300,000	0	0	300,000	0	
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	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMODs	(72,762)	(72,762)	0	0	(72,762)	0	67
1.3.083.83.010.06 - CONTRACT 1252: CONTRACT MOD	112,251	112,251	0	0	112,251	0	
1.3.083.83.010.07 - CONTRACT 1252: CONTRACT MOD	1,810,094	1,810,094	0	0	1,810,094	0	
1.3.083.83.020.03 - CONTRACT 1252: CONTRACT MOD	1,004,156	1,004,156	0	0	1,004,156	0	
1.3.083.83.040.02 - CONTRACT 1252: CONTRACT MOD	1,035,588	1,035,588	0	0	1,035,588	(0)	
1.3.083.83.040.03 - CONTRACT 1252: CONTRACT MOD	453,475	453,475	0	0	453,475	0	
1.3.083.83.040.08 - CONTRACT 1252: CONTRACT MOD	(4,488,326)	(4,488,326)	0	0	(4,488,326)	0	
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	0	0	0	0	0	0	68
CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL	861,639,691	820,609,378	12,866,511	18,765,263	839,374,641	22,265,050	69
84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKA	294,030,590	281,721,289	2,562,544	4,509,491	286,230,780	7,799,810	21
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	244,141,382	2,504,102	4,314,369	248,455,751	4,625,701	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	8,783,318	11,920	50,063	8,833,381	632,313	
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	14,932	0	4,360,395	0	
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	403,902	0	0	403,902	146,098	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	244,500	0	0	244,500	0	
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	16,501	0	0	16,501	2,468	
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,158,410	1,073,634	0	0	1,073,634	84,776	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	10,188,294	0	(591)	10,187,703	951,998	
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	889,034	18,750	45,500	934,534	881,000	
1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	67,178	0	0	67,178	149,779	
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	708,487	12,840	100,150	808,637	325,677	
84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs	7,744,337	7,257,208	0	0	7,257,208	487,129	
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	1,832,330	1,809,040	0	0	1,809,040	23,290	
1.3.084.84.020.07 - CMOD:UMS.1253: ELEVATORS, ESCALATORS	490,000	90,000	0	0	90,000	400,000	
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	3,206,200	0	0	3,206,200	63,838	
1.3.084.84.040.03 - CMOD:UMS.1253: HAZARDOUS MATERIALS	349,730	349,730	0	0	349,730	0	

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1.3.084.84.040.08 - CMOD:UMS.1253: TEMPORARY FACILITIES	809,103	809,102	0	0	809,102	1	
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	12,255,663	0	0	0	0	12,255,663	41
85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254	247,567,810	225,152,391	2,433,229	4,206,648	229,359,039	18,208,771	
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	115,450,610	2,101,874	3,831,028	119,281,638	13,719,415	
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	4,697,478	150,374	129,870	4,827,348	1,985,508	
1.3.085.04.040.01 - CTS.1254: DEMOLITION CLEARING	400,000	400,000	0	0	400,000	0	
1.3.085.04.040.02 - CTS.1254: SITE UTILITIES UTIL	6,001,718	5,225,465	0	0	5,225,465	776,253	
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	286,743	0	0	286,743	63,257	
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	209,602	88,971	0	209,602	116,063	
1.3.085.04.040.06 - CTS.1254: PEDESTRIAN/BIKE	15,000	0	0	0	0	15,000	
1.3.085.04.040.07 - CTS.1254: AUTOMOBILE BUS ACCE	225,677	130,008	15,000	0	130,008	95,669	
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	16,411,190	0	0	16,411,190	160,132	
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	1,592,755	0	0	1,592,755	6,838	
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	3,347,277	0	211,750	3,559,027	504,900	
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	94,490	0	0	94,490	29,991	
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	889,193	77,010	34,000	923,193	735,745	
85 - CHINATOWN STATION (CTS) CMODs	52,199,817	42,257,535	0	0	42,257,535	9,942,282	71
1.3.085.85.020.03 - CMOD:CTS.1254: UNDERGROUND STATION	1,201,478	1,126,478	0	0	1,126,478	75,000	
1.3.085.85.020.04- CMOD:CTS.1254: OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0	0	0	0	9,360,183	
1.3.085.85.040.01 - CMOD:CTS.1254: POWER POLE	155,956	148,212	0	0	148,212	7,744	
1.3.085.85.040.02 - CMOD:CTS.1254: SITE UTILITIES UTIL	4,022,598	3,996,251	0	0	3,996,251	26,347	
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	3,895,399	3,895,396	0	0	3,895,396	3	
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	33,564,202	33,091,198	0	0	33,091,198	473,004	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	(42,199,816)	0	0	0	0	(42,199,816)	72
86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255	158,089,000	149,390,138	1,766,157	2,233,261	151,623,399	6,465,601	
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	114,087,202	1,445,790	187,492	114,274,694	4,131,146	
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	4,572,571	194,445	16,537	4,589,108	744,179	
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	7,162,276	0	0	7,162,276	1,002	
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	2,531,607	18,750	0	2,531,607	97,832	73
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	82,998	0	(20,768)	62,230	37,770	
1.3.086.05.040.06 - YBM.1255: PEDESTRIAN/BIKE	16,665	1	0	0	1	16,664	
1.3.086.05.040.07 - YBM.1255: AUTOMOBILE BUS ACCE	1,542,725	1,539,725	22,347	0	1,539,725	3,000	
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	13,155,647	0	2,035,000	15,190,647	374,106	
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	1,723,992	0	0	1,723,992	2,500	
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	2,736,474	0	0	2,736,474	971,951	
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	1,140,645	84,825	15,000	1,155,645	85,451	
86 - YERBA BUENA MOSCONE STATION (YBM) CMODs	3,241,425	2,684,552	0	130,147	2,814,699	426,726	

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1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	(1,182,064)	(1,182,064)	0	0	(1,182,064)	0	
1.3.086.86.020.07 - CMOD:YBM.1255: ELEVATORS ESCALATOR	210,055	168,396	0	41,659	210,055	0	
1.3.086.86.040.01 - CMOD:YBM.1255: DEMOLITION CLEARING	266,386	259,386	0	0	259,386	7,000	73
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	3,570,282	3,067,636	0	88,488	3,156,124	414,158	
1.3.086.86.040.03 - CMOD:YBM.1255: HAZARDOUS MATERIALS	150,828	150,828	0	0	150,828	0	
1.3.086.86.040.04 - CMOD:YBM.1255: ENVIRONMENTAL MITIGA	102,734	102,734	0	0	102,734	0	
1.3.086.86.040.06 - CMOD:YBM.1255: PEDESTRIAN/BIKE	35,489	29,921	0	0	29,921	5,568	
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	87,715	87,715	0	0	87,715	0	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	1,758,576	0	0	0	0	1,758,576	74
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	109,097,044	6,104,581	7,685,716	116,782,760	23,206,240	
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (A	2,860,000	2,855,000	0	0	2,855,000	5,000	
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	9,257,731	8,383,975	2,102,707	174,650	8,558,625	699,106	
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,723,552	15,483,448	198,208	232,424	15,715,872	1,007,680	
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	6,741,658	0	0	6,741,658	19,432	
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	6,007,247	314,275	46,091	6,053,338	1,549,519	
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	14,665,379	0	0	14,665,379	2,798,667	
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	199,856	0	0	199,856	144	73
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	49,000	0	0	49,000	1,000	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	11,934,817	20,000	1,778,689	13,713,506	183,325	
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	18,969,642	2,826,749	5,179,756	24,149,398	3,394,053	
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	3,722,618	0	0	3,722,618	740,750	
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	7,564,187	444,890	0	7,564,187	2,324,827	
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	2,413,045	110,012	121,527	2,534,572	3,565,103	
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	2,680,230	87,740	152,579	2,832,809	5,163,428	
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	860,381	0	0	860,381	1,754,205	
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	(14,581,253)	3,049,221	0	0	3,049,221	(17,630,474)	
1.3.087.89.040.01 - CMOD:STS.1256: DEMOLITION, CLEARING, EARTHWO	399,000	399,000	0	0	399,000	0	
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	1,482,322	1,345,796	0	0	1,345,796	136,526	
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,219	0	0	18,219	2	
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	1,053,547	1,052,902	0	0	1,052,902	645	
1.3.087.89.050.01 - CMOD:STS.1256: TRAIN CONTROL	(17,776,769)	13,304	0	0	13,304	(17,790,073)	
1.3.087.89.050.02 - CMOD:STS.1256: TRAFFIC SIGNALS AND	242,427	220,000	0	0	220,000	22,427	
1.3.087.89.050.03 - CMOD:STS.1256: TRACTION POWER SUPPL	0	0	0	0	0	0	
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	1,544,543	0	0	0	0	1,544,543	75
88 - STATIONS CONTRACT 1300	2,435,063	986,612	40,663	6,026	992,638	1,442,425	
1.3.088.06.080.04 - CN1300 CONSTRUCTION TRAILER [68CPT5441316.CPT]	80,000	0	0	0	0	80,000	
1.3.088.06.080.04 - DT-CN1300 COMMUNICATIONS INSTALL [68CPT54413	1,430,594	354,818	0	0	354,818	1,075,776	
1.3.088.06.080.04 - MTA Communications - Business Liaison to support CN1300	420,000	225,749	40,663	6,026	231,775	188,225	
1.3.088.06.080.04 - IT-CN1300 Installation [68CPT5441319.CPT5441319]	448,371	365,410	0	0	365,410	82,961	

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1.3.088.06.080.04 - CN1300 Installation Maintenance [68CPT5441320.CPT5441321]	25,000	0	0	0	0	25,000	
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	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	0	0	0	0	8,300,329	
1.3.144.01.080.08 - STRT: STARTUP (SFMTA Transit)	6,941,907	0	0	0	0	6,941,907	
1.3.144.97.080.08 - STRTA: AC STARTUP ALLOC CONTIN	1,358,422	0			0	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	256,780	0	321,963	578,743	10,020,836	
1.3.170.01.050.04 - COMM.CONN:COMMUNICATION CONN	5,757,629	0	0	0	0	5,757,629	
1.3.170.01.050.05 - CSP Radio Design	641,950	256,780	0	0	256,780	385,170	
1.3.170.01.050.05 - CSP Radio Cable	377,788	0	0	321,963	321,963	55,825	
1.3.170.01.050.05 - CSP Radio Procurement	3,822,212	0	0	0	0	3,822,212	
181 - AON RISK INSURANCE CS 163	25,119,436	25,119,206	0	0	25,119,206	230	
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	25,094,436	25,094,206	0	0	25,094,206	230	
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	152,852	0	0	152,852	5,247,148	
1.3.191.01.050.06 - FARE.CONSUM:FARE COLLECTION	5,400,000	152,852	0	0	152,852	5,247,148	
192 - THALES T&S CENTRAL CONTROL	18,524,681	7,975,784	7,869,605	0	7,975,784	10,548,897	
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) - Impleme	14,611,285	4,957,994	4,957,994	0	4,957,994	9,653,291	
1.3.192.01.050.01 - CN1266-1 Advanced Train Control System (ATCS) - Equipme	3,425,424	2,911,610	2,911,610	0	2,911,610	513,814	
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	3,872,299	0	2,400	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	1,303,077	0	2,400	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	471,063	0	0	471,063	480,293	
1.3.331.01.080.04 - CM:SFMTA LABOR-ENG SVCS-IRP/BART/SF	50,000	33,152	0	0	33,152	16,848	

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1.3.331.01.080.06 - CM: BAY AREA RAPID TRANSIT (BART) [122A]	901,356	437,911	0	0	437,911	463,445	
333 - AMERICAN PUBLIC TRANSP. ASSOCIATION (APTA) CS-APTA	146,500	62,112	0	0	62,112	84,388	
1.3.333.01.080.03 - APTA:APTA - IRP [2G]	46,500	31,054	0	0	31,054	15,446	
1.3.333.01.080.03 - APTA:APTA - IRP [2C]	100,000	31,058	0	0	31,058	68,942	
334 - BART FARE COLLECTION SYSTEM	700,000	475,136	0	0	475,136	224,864	
1.3.334.01.050.06 - BART:BART FARE COLLECTION EQP	700,000	475,136	0	0	475,136	224,864	
401 - ECONOMIC AND WORKFORCE DEVELOPMENT (EWD)	17,600	17,600	0	0	17,600	0	
1.3.401.01.080.04 - EWD: MAYORS OFFICE ECON DEV	17,600	17,600	0	0	17,600	0	
402 - DEPARTMENT OF TECHNOLOGY	242,371	250,534	0	0	250,534	(8,163)	
1.3.402.07.050.04 - DT:1UTL:COMM. CONNECTIONS	166,756	179,179	0	0	179,179	(12,423)	
1.3.402.08.050.04 - DT:2UTL:COMM.CONNECTIONS	75,615	71,354	0	0	71,354	4,261	
404 - DEPARTMENT OF BUILDING INSPECTION (DBI)	1,204,081	1,204,081	0	0	1,204,081	0	
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 REIMBURSEM	(528,370)	0	0	0	0	(528,370)	77
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEM	(451,703)	0	0	0	0	(451,703)	78
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEM	(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 REIMBURSEM	(1,000,000)	0	0	0	0	(1,000,000)	83
TOTAL CONSTRUCTION PHASE	1,360,858,865	1,285,545,829	23,414,608	20,720,185	1,306,266,014	53,777,634	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES RFP [34B]	1,324,123	1,319,773	0	0	1,319,773	4,350	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES PROJECT MGT [68E]	828,009	828,009	0	0	828,009	0	
1.4.091.01.070.01 - LRVS: LRV PROCUREMENT ODC	25,000	0	0	0	0	25,000	
1.4.091.01.070.01 - LRVS: LRV PROCUREMENT	14,622,868	9,781,465	0	0	9,781,465	4,841,403	
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	0	0	0	0	0	0	26
TOTAL VEHICLES	16,800,000	11,929,247	0	0	11,929,247	4,870,753	
1.5.015.01.060.01 - RE: EASEMENT ACQUISIT	400,000	322,939	0	0	322,939	77,061	
1.5.015.01.060.01 - RE: REAL EST SITE ACQ	15,955,138	14,224,616	0	0	14,224,616	1,730,522	
1.5.015.01.060.01 - RE: REAL ESTATE	766,272	766,272	0	0	766,272	0	
1.5.015.01.060.01 - RE: REC & PARK MOU	6,987,624	6,987,624	0	0	6,987,624	0	
1.5.015.01.060.01 - RE:-DEPT OF TRANSPOR	2,686,000	2,686,000	0	0	2,686,000	0	
1.5.015.01.060.01 - RE:-LICENSES FEES	400,000	381,311	0	0	381,311	18,689	
1.5.023.01.060.01 - ATTY:REAL ES	2,764,872	2,764,872	0	0	2,764,872	0	
1.5.101.01.060.02 - RES.RELO: RELOCATION COST	1,275,200	1,289,701	0	0	1,289,701	(14,501)	
1.5.102.01.060.02 - COMM.RELO-RELOC COMMERCIAL	905,311	1,119,729	0	0	1,119,729	(214,418)	
TOTAL ROW, LAND, EXISTING IMPROVEMENTS	32,140,418	30,543,065	0	0	30,543,065	1,597,353	

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90 - CONTINGENCY	24,195,114	0	0	0	0	24,195,114	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	6,882,669					6,882,669	84
TOTAL ALLOCATED CONTINGENCY	17,312,445					17,312,445	
TOTAL PROJECT COST	1,578,300,000	1,488,511,153	23,414,608	20,720,185	1,509,231,338	68,253,445	

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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.

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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.
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.
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.
29	Estimate at Completion is shown at Column "e".
30	Estimate at Completion vs. Budget variance is shown at Column "k".
7.5 Contract Modification/Trend Log - Contract 1300 Stations	
31	Reported all trend cost for Contractor Change Order Requests and Proposed Contract Change and applied probability to forecasted trends. In April 2016 Report, reviewed probability formula and adjusted cost. In May 2017, updated probability formula and adjusted cost.

7.6 Budget Revisions: Report Sorted by Construction Packages	
32	In Dec 2014 Report, reduced CN1252 allocated contingency by \$28K to execute Contract Modification #46, see Report 7.5 Detail Contingency Usage Report. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, five contract modifications certified totaling \$377,435 of which \$155,468 is using another source of funding. Released \$155,648 from CN1252 Tunnel assigned contingency to program unallocated contingency. In May 2016 Report, reduced CN1252 allocated contingency by \$186K to execute Contract Modification #54 and #55, see Report 7.5 Detail Contingency Usage Report. In October 2016 Report, increased CN1252 allocated contingency by \$319,658 to execute three contract modifications (#57, #58 and #59), see Report 7.5 Detail Contingency Usage Report. In March 2018 Report, increased CN1252 allocated contingency by \$131,715 to execute two contract modifications (#61 and #62), see Report 7.5 Detail Contingency Usage Report. In December 2018 Report, released CN1252 allocated contingency of \$966,431 to program unallocated contingency.
33	In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value.
34	In April 2015, initiated budget from program unallocated contingencies for CS-175 Bayland Soil Process contract, refer to Note 20.
34a	In March 2019, initiated transfer due to budget being withdrawn from Tutor contract (STS package) to fund the Advanced Train Control System contract amount of \$18,036,709. CN1266-2 Advanced Train Control System (ATCS) Implementation for \$14,611,285 and CN1266-1 Advanced Train Control System (ATCS) Equipment for \$3,425,424.
34b	In December 2018, initiated budget from program unallocated contingencies for AON Risk Insurance, refer to Note 20.
35	In February 2017, released completed phase real estate assigned contingency \$5,265,478 to program unallocated contingency.
36	In Dec 2014 Report, redistributed LRV budget to reflect recent firm bid cost per vehicle (\$3,327,250/unit) from vehicle procurement contract award. (SFMTA Board meeting 15JUL14, calendar item #11). Vehicle line item total budget remains unchanged, redistributed fund by reducing base amount to \$13,309,000 and increased allocated contingency by same amount. In December 2018 Report, adjusted budget from \$13,309,000 to \$16,800,000 from allocated contingency. Took the remaining allocated contingency of \$9,585,653 and moved it to program unallocated contingency.
36a	In August 2019 Report, utilized the contingency of \$16,862,657 from 80.03 Project Management budget and 80.04 Construction Management budget and redistributed funds to align with AECOM budget to reflect true costs plus additional \$12,000,000 in 2019 annual work plan.

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37	<p>In October 2016 report, 1252 program contingency increased by \$319,658 due to execution of three contract modifications as credit offsets. In November 2016 report, took away \$75,000 funding from program's unallocated contingency and moved to CTS allocated contingency. In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value. Also released \$5,265,478 assigned real estate contingency to program unallocated contingency. In June 2017, initiated budget from Contract 1251's contract value (true final administrative close out cost) to program unallocated contingency, a deduction contract modification that lowered CN1251's contract value by \$125,501. In March 2018 report, 1252 program contingency increased by \$131,715 due to execution of two contract modifications as credit offsets. In July 2018, increased SCC category Professional Services in 80.04 Construction Management by \$2,263,498 by reducing program unallocated contingency. In August 2019, increased SCC category Other Construction in 50.05 CSP Radio by \$4,841,950 by reducing program unallocated contingency.</p>
38	<p>In April 2015 report, program contingency decreased by \$500,000. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, released \$155,468 from Contract 1252 Tunnel assigned contingency and \$75,000 from Contract 1300 Stations assigned contingency totaling \$230,956. In August 2016, released a total of \$20M unassigned contingency to assigned contingency; \$15M to CN1300 UMS station and \$5M to CTS station. In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value. Also released \$5,265,478 assigned real estate contingency to program unallocated contingency. In July 2017, increased program unallocated contingency by \$125,501 due to CN1251's revised contract value. In July 2018, reduced program unallocated contingency by \$2,263,498 to fund additional costs for SCC category Professional Services in 80.04 Construction Management. In December 2018, reallocated CN1252 budget of 2,402,247 (due to closeout cmod reduction of 1,435,816 and contingency release of 966,430) and LRV budget contingency of 9,585,653 and released a total of 11,987,900 to unprogrammed contingency. In August 2019, reduced program contingency by \$4,841,950 to fund additional costs for SCC category Other Construction in 50.05 to fund CSP Radio related services.</p>
<p>7.7 Budget Expenditures by SCC Codes</p>	
39	<p>In March 2017, added new columns for "Supplemental 2013 Budget" and "Remaining Budget". In April, added new column for "Contingency". In May 2017, added new column for "Report Note". In May 2017, breakdown the combined SCC codes 10 to 50 into individual row for 10, 20, 40, 50 categories. Assigned SCC code to all CN1300 potential changes. Contract 1300 Station assigned contingency SCC are 20.01 and 20.03. The budget transfer is using assigned contingency to process contract modifications. In June 2017, adjusted and realigned SCC codes. In July 2018, the budget transfer is using SCC 90 program unallocated contingency to process an increase in budget for category SCC 80.03-90.04 PM For Design & 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.</p>
<p>7.9 Detail Monthly Expenditure Report</p>	
<p>Phase 1 Preliminary Engineering</p>	
40	<p>In February 2017, line item budget was adjusted to line-up expenditures. 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>

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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]
46	1.2.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]: FAMIS: \$4,698,167 Cost Report: \$4,698,167 on 1.2.063.01.080.03 Cost Transfer: Future costs to 1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]
47	AVA Cost \$395,204 is reported in Phase 2 Final Design 1.2.066.01.080.03
48	In January 2017 Report, remove variance amount of (\$920,555) that was incorrectly reported in August 2016.
49	1.2.071.01.080.02 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336 Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
50	1.2.072.01.080.02 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609 COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
51	1.2.073.01.080.02 - FD:FINAL DESIGN-DP3 [35CPT5441236.CPT5441236]: FAMIS: \$11,502,372 COST REPORT: \$11,432,312 COST TRANSFER: \$70,060 to 1.3.073.01.080.04 - CM: DP3 [35CPT5441236.CPT5441236]
Phase 3 Construction Phase	
52	1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]: FAMIS: \$1,525,982 Cost Report: \$1,425,167 1.2.021.01.080.03 Cost Transfer: any future costs to 1.3.021.01.080.03

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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.

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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.
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.
72	Revised Contract 1300/CTS allocated contingency SCC code from 040.08 to 020.03.
73	Negative Current or Prior Monthly expenditure is due to replenish allowance expenses by approved Contract Modifications.
74	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
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 unprogramed contingency.

Appendix B

DETAIL SCHEDULE REPORTS

SCHEDULE HIGHLIGHTS

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

The MPS shows a forecast Revenue Service Date Summer 2021, shifting from 26 July 2021 to 16 September 2021, based on a revised assessment of the overall schedule and the current project conditions.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources and extended approvals of contract modifications related to Radio and Train Control Systems. 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 February 2020 schedule is used within the February Report. The SFMTA Contract 1300 February 2020 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. The SFMTA will continue to use the SFMTA Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all SFMTA's scheduling concerns.

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

- Continued installing Stair 5
- Continued installing overhead conduit at Main Electrical and Traction Power rooms at Headhouse Platform level
- Completed CMU wall curb installation on the Headhouse Upper mezzanine level
- Continued installing GFRC panels at North Platform Caverns
- Completed installing Escalator 1 & 2 at North Platform Cavern
- Continued installing Escalator 3 & 4 at Headhouse Concourse level
- Continued installing Traction Power Equipment at Platform level
- Completed Arch closure composite wall
- Began GFRC panel installation at Concourse level
- Continued construction of PCC 50 Chinatown Plaza walls and stairs
- Continued street work (minor), ongoing monitoring and surveying

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

- Complete installing GFRC panels at North Platform Caverns
- Complete installing Escalator 3 & 4 at Headhouse Concourse level
- Complete installing overhead conduit at Main Electrical and Traction Power rooms at Headhouse Platform level
- Complete electrical switchgear installation at Headhouse Platform level
- Begin Escalator 5 and 6 installation
- Complete CMU wall construction at all levels of Headhouse
- Continue construction of PCC 50 Chinatown Plaza walls

Activity ID	Activity Name	2020						
		Feb	Mar	Apr	May	Jun	Jul	Aug
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction CTS Station P-1254R								
Administrative / Milestones								
Site Work / Utility Relocation								
Demolition								
Tunnel / Cavern Mining								
Cavern Lining								
Concrete/Shotcrete								
Structural Steel								
Masonry								
Mechanical								
Entrance Roof Level								
Surface Level								
Upper Mezz Level								
Lower Mezz Level								
Concourse Level								
Platform Level								
CTS.21.22.530	CTS_Platform - Aux Communication & TCU/TCS Install - Clean Agent Panel - 1 ea							
CTS.23.31.614	CTS_PL 03 - Aux Elect Rm: Install - HVAC: Ductwork							
CTS.23.31.581	CTS_PL 03 - Aux Elect Rm: Install - HVAC: Diffusers & Grilles							
CTS.23.31.585	CTS_PL 12 - Train Control Rm: Install - HVAC: Diffusers & Grilles							
CTS.23.31.467	CTS_PL 21 - Aux Elect Rm: Install - HVAC: Ductwork							
CTS.23.31.589	CTS_PL 21 - Aux Elect Rm: Install - HVAC: Diffusers & Grilles							
CTS.23.31.584	CTS_PL 09 - Aux Comm Rm: Install - HVAC: Diffusers & Grilles							
CTS.23.23.130	CTS_Install: HVAC: Refrigerant Piping - Platform Level - Sector 3							
CTS.23.36.140	CTS_PL 03 Install: HVAC: Air Terminal Units North Platform							
CTS.23.36.150	CTS_PL 09 - Aux Comm Rm: Install: HVAC: Air Terminal Units							
C.3.880	South Emergency Egress Tunnel M.E.P							
CTS.23.31.627	CTS_PL 04 - Stair 4: Install - HVAC: Ductwork							
CTS.23.31.582	CTS_PL 04 - Stair 4: Install - HVAC: Diffusers & Grilles							
CTS.23.31.700	CTS_PL 15 - Traction Power Rm: Install - HVAC: Ductwork							
CTS.22.11.100	CTS_PL Install: Domestic Water - Platform Level							
CTS.23.36.130	CTS_Install: HVAC: Air Terminal Units Headhouse Platform Level							
C.3.860	North Emergency Egress Tunnel M.E.P							
CTS.21.13.515	CTS_PL 08 - Mens Restroom: Rough In - Overhead Sprinkler Laterals/Nozzels							
CTS.21.13.512	CTS_PL 07 - Womens Restroom: Rough In - Overhead Sprinkler Laterals/Nozzels							
CTS.23.31.412	CTS_PL 19 - Sewage Ejector Rm: Install - HVAC: Ductwork							
CTS.23.31.587	CTS_PL 19 - Sewage Ejector Rm: Install - HVAC: Diffusers & Grilles							

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

- Platform Station: Continued construction of stairs and elevators. Continued installation of glass enclosure around elevators and escalators. Continued to install overhead plumbing, ductwork, fire protection piping, and overhead fixture and electrical. Continued installation of ceiling panels and LED Artwork on Concourse level. Continued installation of light fixtures and controls. Continued installation of Curved Metal Panel on Platform Strut level. Continued installation of frames for doors on all levels. Began installation of doors and hardware. Continued preparation and began installation of terrazzo on Platform and Concourse level. Energized main electrical room. Began commissioning of the electrical panels and transformers. Began installation of brackets for Platform level Artwork. Began PA and CCTV installation.
- North Concourse: Continued construction of stairs and elevators. Continued installation of overhead plumbing, ductwork, fire protection piping, and

- overhead fixture and electrical. Continued cement plaster finish in various rooms. Continued installation of glass wall panels.
- South Concourse: Continued installation of overhead electrical, ceiling panels, and crystallized glass at ticket vending machine. Continued installation ceiling panels and LED artwork. Continued installation of glass wall panels. Continued installation of terrazzo flooring.
 - Street/Surface: Continued installation of precast architectural concrete elements on USG terrace level. Continued installation of USG Roof level exhaust vent. Began installation of glass roof walk artwork on USG Terrace level.

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

- Platform Station: Continue Energization in main electrical room. Continue construction of stairs and elevators. Continue installation of glass enclosure around elevators. Continue installation of escalators. Continue installation of glass wall panels for escalators. Continue to install overhead plumbing, fire protection piping, and overhead fixture and electrical. Continue installation of unistrut grid for ceiling panels and LED Artwork on Concourse level. Continue installation of ceiling panels. Continue installation of light fixtures and controls. Continue installation of Curved Metal Panel on Platform Strut Level. Continue installation of frames and begin installation of doors on all levels. Continue preparation for installation of terrazzo on Platform Level and installation of terrazzo. Continue installation of brackets for Platform level Artwork
- North Concourse: Continue construction of stairs and elevators. Continue installation of overhead plumbing, fire protection piping, and overhead fixture and electrical. Continue cement plaster finish in various rooms. Continue installation of glass wall panels
- South Concourse: Continue installation of overhead electrical, ceiling panels, and crystallized glass at ticket vending machine. Continue installation of unistrut for ceiling panels and LED artwork. Continue installation of glass wall panels. Continue installation of terrazzo flooring
- Street/Surface: Continue installation of precast architectural concrete elements for USG terrace level. Continue installation of USG Roof level exhaust vent. Continue Ellis Entrance finishes

Activity ID	Activity Name	2020						
		Feb	Mar	Apr	May	Jun	Jul	Aug
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction UMS Station P-1253								
Administrative / Milestones								
Site Work / Utility Relocation								
Drilled Shafts								
Concrete/Shotcrete								
Structural Steel								
Masonry								
Mechanical								
Electrical								
Surface Level								
All Levels								
Concourse Level								
UMS.26.24.2650	UMS_CN_16 Elect Closet Install Raceway - Panelboard 2NP2 To T-7							
UMS.26.24.4400	UMS_PL_04 -Aux Comm Rm - Install CCTV & Phone Rack Cabinets							
UMS.26.24.4420	UMS_MZ_05 -Main Comm Rm - Install CCTV & Phone Rack Cabinets							
UMS.26.24.2720	UMS_CN_16 Elect Closet Terminations - Panelboard E2NP							
UMS.26.24.2780	UMS_CN_16 Elect Closet Terminations - Panelboard 2NHL2							
UMS.26.24.4480	UMS_CN_21 - Electrical Closet: Pull Data Cable LCP-C2 To Master Panel LCP-M (I							
UMS.26.24.3350	UMS_CN_16 Elect Closet Install Raceway - Panelboard E2NP2 To EAPB (Agent Bo							
UMS.26.24.4120	UMS_CN_21 - Electrical Closet: Pull Feeder Cable - E2SP1 to E3DP (MZ11)							
UMS.26.24.4380	UMS_CN_30 -Aux Comm Rm - Install CCTV & Phone Rack Cabinets							
UMS.08.85.0140	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 3							
UMS.26.24.3360	UMS_CN_16 Elect Closet Install Raceway - Panelboard 2NP2 To Pnl ABP (Agent Br							
UMS.26.24.4310	UMS_CN_16 Elect Closet Pull Cable - Panelboard E2NP2 To EAPB (Agent Booth)							
UMS.26.50.1055	UMS_CN - Install - Conduit & Devices For Light Fixtures Sector 3 Concourse							
UMS.26.24.4410	UMS_PL_04 -Aux Comm Rm - Install Phone Terminal Boards							
UMS.26.24.4430	UMS_MZ_05 - Main Comm Rm - Install Phone Terminal Boards							
UMS.26.24.4330	UMS_CN_16 Elect Closet Pull Cable - Panelboard 2NP2 To Pnl ABP (Agent Booth)							
UMS.26.24.3680	UMS_CN_04 -Main Electrical Rm: Pull Feeder Cable - Elect Panel DS1 Escalators 1							
UMS.26.24.4390	UMS_CN_30 -Aux Comm Rm - Install Phone Terminal Boards							
UMS.26.24.2360	UMS_CN_21 - Electrical Closet: Terminations - Panelboard - E2SP1							
UMS.08.85.0260	UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 6							
UMS.08.85.0120	UMS_CN_Install Pendant Mounted Strip Lighting - Perimeter & Cross Pattern - Sect							
UMS.08.85.0190	UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 4							
UMS.26.50.1075	UMS_CN - Install - Wire Pulls for Light Fixtures - Sector 3 Concourse							
UMS.26.50.1385	UMS_CN - Install - Wire Pulls for Light Fixtures -Sector 6 Concourse							
UMS.08.85.0200	UMS_CN_Install Pendant Mounted Strip Lighting - Perimeter & Cross Pattern - Sect							

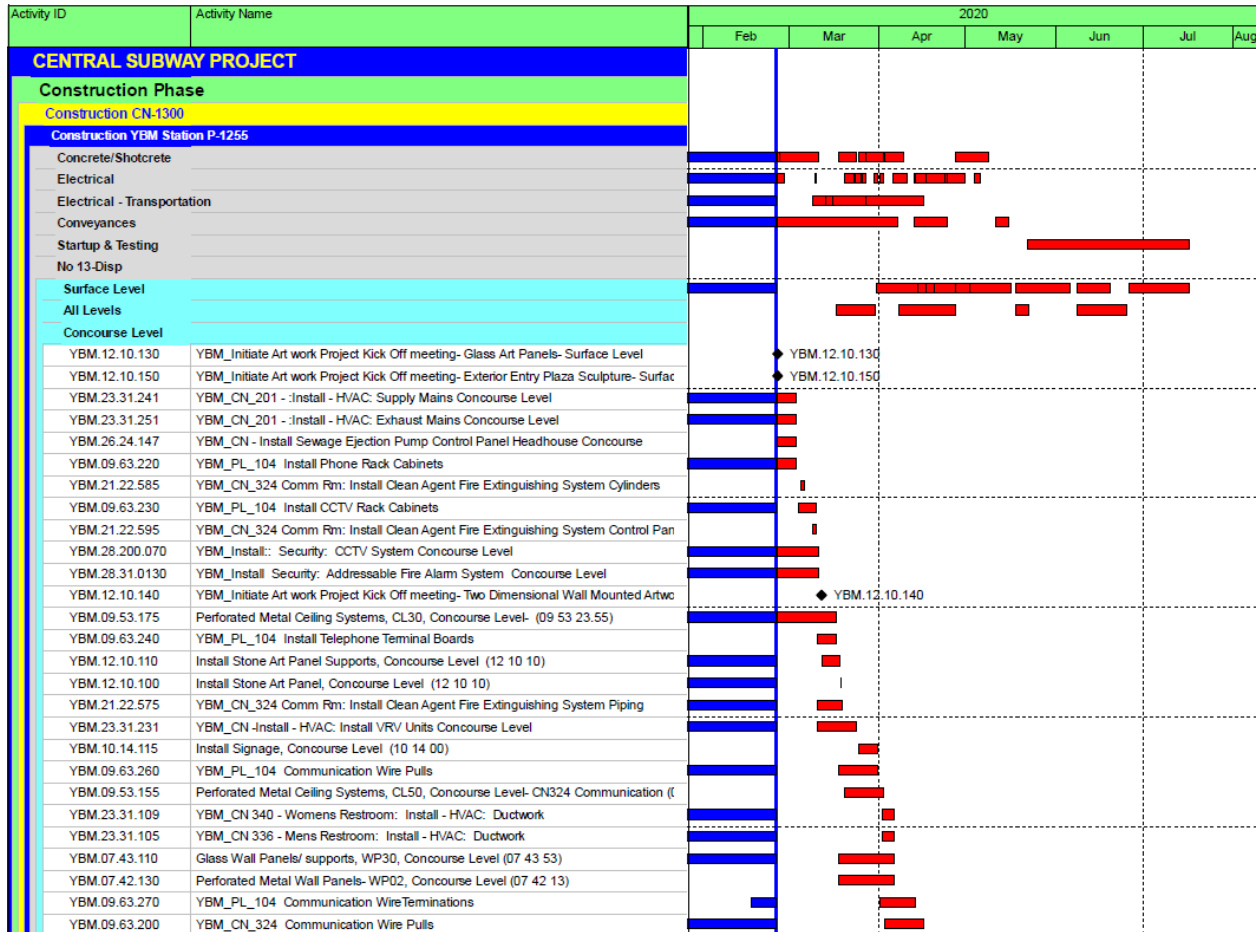
Work Package P-1255 (YBM) has performed the following work this month:

- Continued installing Escalators 3 and 4
- Continued installing Elevators 3 and 4
- Began installing piping at Headhouse Vent Shaft and Headhouse Roof
- Began installing EV controls at Station Mezzanine
- Began installing ceiling at Headhouse Concourse
- Continued installing ceiling in Station Concourse
- Continued installing seismic joints at Station Platform

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

- Continue installing Escalators 1 through 4
- Continue installing Elevators 3 and 4
- Continue installing Stairs 2 and 3
- Begin installing skylight glass at Headhouse Roof
- Begin installing fireproof steel structure at Headhouse Roof
- Continue installing EV Controls at Station Mezzanine

- Begin installing branch power at Station Mezzanine
- Continue installing Station Agent Booth at Headhouse Concourse
- Begin installing toilets and lockers in Headhouse Concourse
- Begin installing artwork at Headhouse Concourse
- Continue installing metal wall and floor in Station Concourse
- Begin installing lighting in Station Concourse
- Continue installing telephone system at Station Platform level



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

- Continued traction power conduit and other electrical conduit installation inside tunnel
- Continued tunnel lighting installation
- Continued standpipe installation in tunnels and cross passages
- Continued 4th/Brannan platform construction
- Continued pulling traction power feeder cables on surface
- Continued OCS installation on 4th Street and Townsend Street
- Started train case work at 4th/King

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

- Continue 4th/Brannan platform construction
- Continue traction power conduit and other electrical conduit installation inside tunnel
- Continue tunnel lighting installation
- Start OCS hanger installation inside tunnel
- Continue walkway installation inside tunnel
- Continue pulling traction power feeder cables on surface
- Continue OCS installation on 4th Street
- Continue train case work at 4th/King
- Start FDC work near 4th Street portal

Activity ID	Activity Name	2020							
		Feb	Mar	Apr	May	Jun	Jul	Aug	
CENTRAL SUBWAY PROJECT									
Construction Phase									
Construction CN:1300									
Construction STS P-1256									
Concrete/Shotcrete									
Tunnel Concrete									
Electrical									
Chinatown Station									
Union Square Station									
Moscone Station									
Fourth/King Intersection									
Fourth Street									
Fifth Street									
Fourth/Brannan Station									
Harrison St									
Bryant St									
Brannan St									
Townsend St									
HeadHouse									
North Concourse - Stockton St									
Northbound Tunnel or Trackway									
Southbound Tunnel or Trackway									
Tunnel Portal									
King Substation (Traction Power)									
Power Control Center (Near Bryant/Alameda)									
No 13-Location									
CTS.27.21.110	CTS_UM 07 - Aux Elect Rm: Install - SCADA Cabinet								
STS.33.11.21.a12	STS_Construct: AWSS Cistem Ring								
STS.20.71.550	STS_Manufacture - PCC SCADA Equipment								
STS.34.01.24.100	STS_ PA/PDS Software: Operation control Center (34 01 24)								
STS.34.01.24.130	STS_ Cable Installation: Operation control Center (34 01 24)								
STS.RES8.2	STS_Temporary Resource Activity For Transfer to V8.2 DO NOT DELETE #####								
CTS.27.21.120	CTS_UM 07 - Aux Elect Rm: Terminations - SCADA Cabinet								
STS.09.30.00.k1	STS_Construct: Tiling Mockups								
STS.34.42.390	STS_Install: Transportation: ATCS Central Equipment - Lennox OCC								
STS.34.42.400	STS_Install: Transportation: ATCS Central Equipment - Transportation Mgmt Center								
STS.34.01.24.150	STS_ PA/PDS: Operation control Center (34 01 24)								
STS.34.01.24.110	STS_ Testing Cutover: Operation control Center (34 01 24)								
STS.34.01.24.120	STS_ System Integration: Operation control Center (34 01 24)								
STS.34.01.24.140	STS_ ACT: Operation control Center (34 01 24)								
STS.34.01.24.160	STS_ FSS: Operation control Center (34 01 24)								
STS.34.01.24.170	STS_ CCTV & Access Control: Operation control Center (34 01 24)								

SCHEDULE REVISIONS

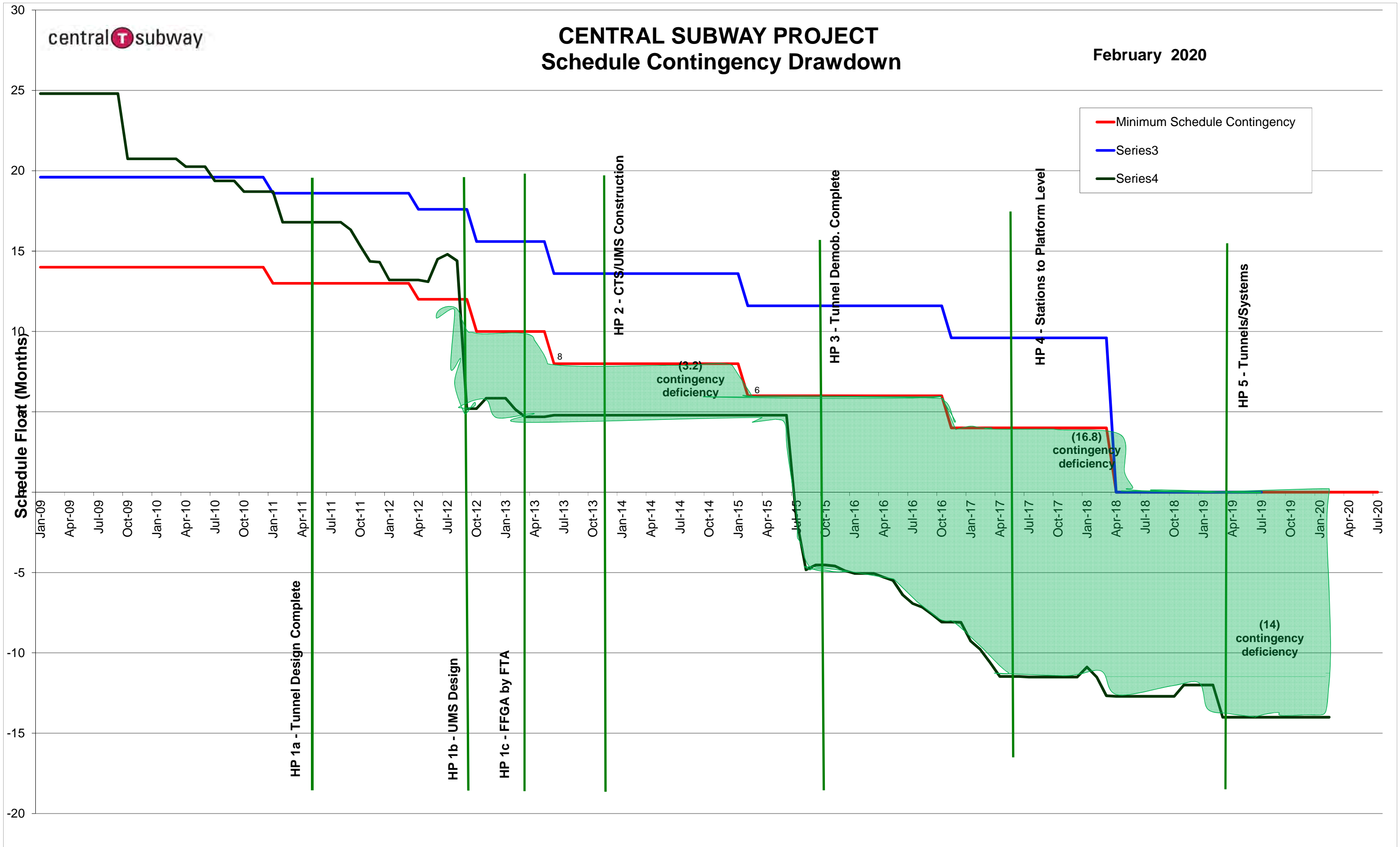
The SFMTA Contract 1300 February 2020 schedule update was added this period to the Central Subway Project Master Schedule.

LIST OF SCHEDULE REPORTS

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

CENTRAL SUBWAY PROJECT Schedule Contingency Drawdown

February 2020



Activity ID	Activity Name	Original Duration	Start	Finish	2020				2021			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CENTRAL SUBWAY PROJECT		4864	03-Jun-03 A	25-Jan-22								
Program Level Milestones		5006	03-Jun-03 A	16-Sep-21	▼ Program Level Milestone							
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		16-Sep-21*	◆ Baseline Finish Date:							
MS0009	CSP Revenue Service Date	0		16-Sep-21*	◆ CSP Revenue Service							
Preliminary Engineering Phase		2661	03-Jun-03 A	07-Jan-10 A								
Final Design		1811	08-Jan-10 A	17-Jun-13 A								
Light Rail Vehicles		2685	15-Apr-13 A	20-Aug-20	Light Rail Vehicles							
Real Estate		3130	01-Aug-08 A	02-Jan-14 A								
Construction Phase		3145	04-Jan-10 A	25-Jan-22								
Construction Support and Costs		3670	04-Jan-10 A	25-Jan-22								
Construction Utility Contract #1- MOS & Portal CN-1250		505	04-Jan-10 A	23-May-11 A								
Construction Utility Contract #2 - UMS CN-1251		643	12-Jan-11 A	15-Oct-12 A								
Construction Tunnels CN-1252		1518	08-Jun-11 A	26-Feb-20	Construction Tunnels CN-1252							
Construction STS P-1256 ATCS		1796	20-May-14 A	04-Feb-21	Construction STS P-1256 ATCS							
Construction STS P-XXXX Radio		195	27-Aug-19 A	03-Nov-20	Construction STS P-XXXX Radio							
Construction CN-1300		1999	03-Jun-13 A	25-Feb-21	Construction CN-1300							
CN- 1300 Milestone		1999	17-Jun-13 A	15-Feb-21	CN- 1300 Milestone							
Construction UMS Station P-1253		1936	17-Jun-13 A	18-Nov-20	Construction UMS Station P-1253							
Construction CTS Station P-1254R		1936	17-Jun-13 A	18-Nov-20	Construction CTS Station P-1254R							
Construction YBM Station P-1255		1936	10-Jun-13 A	18-Nov-20	Construction YBM Station P-1255							
Construction STS P-1256		1936	03-Jun-13 A	25-Feb-21	Construction STS P-1256							
Project Start Up		302	17-Nov-20	16-Sep-21	Project Start Up							
Unallocated Contingency		393	26-Feb-20	15-Sep-21	Unallocated Contingency							

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021				2022	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Program Level Milestones															
MS0019	Baseline Finish Date: 12-26-2018	0		16-Sep-21*	-326										
MS0009	CSP Revenue Service Date	0		16-Sep-21*	-326										
MS0010	Grant Closeout - CSP Complete	0		30-Aug-23	0										
CN- 1300 Milestone															
STS1500	CN 1300 Substantial Completion	0	26-Feb-20	15-Feb-21	-101										
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		17-Nov-20*	-473										
C.Punch	Closeout Punchlist/Remaining Work	90	18-Nov-20	15-Feb-21	-141										
MS-20	Final Completion - 1,790 Calendar Days (SP-4C)	0		15-Feb-21*	-141										
Construction STS P-1256															
STS.26.05.0785	STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers NB12 To NB18	7	06-May-19 A	24-Jul-20	-332										
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	12-Aug-20	-332										
STS.34.23.0460	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Portal To Moscone	5	30-Sep-19 A	16-Mar-20	-332										
STS.26.05.0820	STS_Install: Tunnel Electrical - Mini Power Centers EP11-EP29 - NB Moscone to Union Square	3	02-Dec-19 A	04-Mar-20	-332										
STS.26.05.0440	STS_Install: Tunnel Electrical - Mini-Power Centers EP1-EP9 - NB Portal To Moscone	3	27-Jan-20 A	28-Feb-20	-332										
STS.34.23.1800	STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal	3	05-Mar-20*	09-Mar-20	-332										
STS.26.05.3910	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - NB Moscone to Union Square	5	05-Mar-20	11-Mar-20	-332										
STS.34.23.0850	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Moscone to Union Square	5	17-Mar-20	23-Mar-20	-332										
STS.34.23.1940	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Moscone to Union Square	7	24-Mar-20	01-Apr-20	-332										
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Moscone to Union Square	14	02-Apr-20	21-Apr-20	-332										
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Union Square to Chinatown	12	22-Apr-20	07-May-20	-332										
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS To Portal	8	08-May-20	19-May-20	-332										
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Portal	2	20-May-20	21-May-20	-332										
STS.34.22.2880	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB NB11 - UMS South	2	22-May-20	25-May-20	-332										
STS.34.22.2890	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11 To NB04 - UMS To Moscone	8	26-May-20	04-Jun-20	-332										
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS South	1	05-Jun-20	05-Jun-20	-332										
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS To Moscone	7	08-Jun-20	16-Jun-20	-332										
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS South	1	17-Jun-20	17-Jun-20	-332										
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To Moscone	3	18-Jun-20	22-Jun-20	-332										
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS South	1	23-Jun-20	23-Jun-20	-332										
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To Moscone	1	24-Jun-20	24-Jun-20	-332										
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To PS-01 - UMS South	15	25-Jun-20	15-Jul-20	-332										
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS South	2	16-Jul-20	17-Jul-20	-332										
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS	2	27-Jul-20	28-Jul-20	-332										
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS	1	29-Jul-20	29-Jul-20	-332										
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS	3	30-Jul-20	03-Aug-20	-332										
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS South	1	04-Aug-20	04-Aug-20	-332										
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - Chinatown	2	04-Aug-20	05-Aug-20	-332										
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatown	1	06-Aug-20	06-Aug-20	-332										
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	13	13-Aug-20	31-Aug-20	-332										
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	14	13-Aug-20	01-Sep-20	-332										
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Loop	2	02-Sep-20	03-Sep-20	-332										
STS.34.42.425	Startup & Testing - Tunnel & ATSC Systems	53	04-Sep-20	17-Nov-20	-332										
Project Start Up															
STU1010	S&S Certification / Pre-Revenue Activities	206	17-Nov-20	15-Sep-21	-326										
BUF0018	Muni Float	0	16-Sep-21	16-Sep-21	-326										
Project Management															

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019				2020				2021				2022	
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
CENTRAL SUBWAY PROJECT	2527	08-Jun-11 A	25-Feb-21																																										
Construction Phase	2527	08-Jun-11 A	25-Feb-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																																										
UMS - Remove Geary to Ellis OCS	5	24-Jul-12 A	26-Jul-12 A																																										
UMS - Setup Traffic Control for Headwall Construction	1	30-Jul-12 A	30-Jul-12 A																																										
North Headwall	237	27-Feb-13 A	22-Nov-13 A																																										
South Headwall	404	31-Jul-12 A	22-Nov-13 A																																										
4th St and Market Compensation Grouting	707	28-Jan-13 A	30-Apr-15 A																																										
Southbound Tunneling	451	27-Apr-13 A	13-Oct-14 A																																										
Ellis St Compensation Grouting	561	31-Jul-12 A	09-May-14 A																																										
Green St Compensation Grouting	320	05-Aug-13 A	30-Jun-14 A																																										
Retrieval Shaft	1070	31-Oct-11 A	20-Mar-15 A																																										
Cross Passage 1-5	339	22-Mar-14 A	16-Apr-15 A																																										
Cross Passage 1	79	14-Jun-14 A	13-Sep-14 A																																										
Cross Passage 2	105	10-May-14 A	09-Sep-14 A																																										
Cross Passage 3	127	31-Mar-14 A	28-Aug-14 A																																										
Cross Passage 4	114	22-Mar-14 A	31-Jul-14 A																																										
Cross Passage 5	277	31-May-14 A	16-Apr-15 A																																										
Portal Structure	196	02-Sep-14 A	15-Apr-15 A																																										
Contract Close Out	307	03-Mar-14 A	15-May-15 A																																										
Construction CN-1300	1999	03-Jun-13 A	25-Feb-21																																										
CN- 1300 Milestone	1999	17-Jun-13 A	15-Feb-21																																										
Construction UMS Station P-1253	1936	17-Jun-13 A	18-Nov-20																																										
Construction CTS Station P-1254R	1936	17-Jun-13 A	18-Nov-20																																										
Construction YBM Station P-1255	1936	10-Jun-13 A	18-Nov-20																																										
Construction STS P-1256	1936	03-Jun-13 A	25-Feb-21																																										

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
CENTRAL SUBWAY PROJECT										
Program Level Milestones										
	No 13-Disp	1282	26-Feb-20	30-Aug-23	0					
Light Rail Vehicles										
Construction Phase										
Construction Support and Costs										
Construction Tunnels CN-1252										
Construction STS P-1256 ATCS										
Construction STS P-XXXX Radio										
Construction CN-1300										
CN- 1300 Milestone										
Construction UMS Station P-1253										
Administrative / Milestones										
Preconstruction										
Engineering & Procurement										
Site Work / Utility Relocation										
Drilled Shafts										
Concrete/Shotcrete										
Structural Steel										
Masonry										
Mechanical										
Electrical										
Electrical - Transportation										
Architectual Finishes										
Surface Level										
All Levels										
Concourse Level										
UMS.09.53.0310	UMS_CN - Concourse: Install Metal Panel Ceiling Support Sector 3	9	30-Sep-19 A	03-Feb-20 A						
UMS.07.81.0250	UMS_RF_Install Spray Applied Fireproofing - Roof Beams - Main Concourse Level	9	27-Dec-18 A	27-Feb-20	-236					
UMS.07.43.0100	UMS_Install Crystallized Glass Wall Panels Supports- Concourse Level, North (07 43 53)	5	26-Sep-19 A	03-Mar-20	-210					
UMS.05.40.0180	UMS_PL Install Stud Framing Platform @ Esc 2&3 Sector 3	5	30-Dec-19 A	05-Mar-20	-168					
UMS.05.40.01900	UMS_PL Install Stud Framing Platform @ Esc 4&6 Sector 5	5	06-Jan-20 A	12-Mar-20	-168					
UMS.05.24.4640	UMS_CN_31 Erect Agent Booth	10	06-Aug-18 A	12-Mar-20	-216					
UMS.05.40.2500	UMS_PL Install Gyp Enclosure @ Esc 2&3 Sector 3	5	13-Jan-20 A	12-Mar-20	-168					
UMS.08.85.0160	UMS_CN_Install Glazed Ceiling Panels - Sector 3	5	21-Oct-19 A	13-Mar-20	-202					
UMS.07.43.0110	UMS_Install Crystallized Glass Wall Panels - Concourse Level, North (07 43 53)	9	03-Oct-19 A	16-Mar-20	-210					
UMS.08.88.0100	UMS_CN_Install Supports/ Fire Rated Glass Floor (08 88 10)	15	13-May-19 A	17-Mar-20	-169					
UMS.05.40.2600	UMS_PL Install Gyp Enclosure @ Esc 4&6 Sector 5	5	13-Jan-20 A	19-Mar-20	-168					
UMS.07.82.0130	UMS_ Install Intumescent Coating - Concourse Level Struts	10	20-Mar-19 A	19-Mar-20	-207					
UMS.08.85.0230	UMS_CN_Install Glazed Ceiling Panels - Sector 4	5	18-Dec-19 A	20-Mar-20	-195					
UMS.05.70.0160	UMS_ Install SS Cladding & Column Covers Concourse Level Elevator #3	5	26-Dec-19 A	23-Mar-20	-201					
UMS.07.43.0160	UMS_Install Crystallized Glass Wall Panels Supports- Concourse Level, South	5	17-Oct-19 A	23-Mar-20	-210					
UMS.08.51.0185	UMS_CN_Install Booth Aluminum Storefront	5	17-Mar-20	23-Mar-20	-218					
UMS.05.70.0170	UMS_ Install SS Cladding & Column Covers Concourse Level Elevator #4	5	02-Jan-20 A	30-Mar-20	-201					
UMS.08.51.0190	UMS_CN_Install Glazing - Booth	5	24-Mar-20	30-Mar-20	-218					
UMS.09.53.0330	UMS_CN - Concourse: Install Metal Ceiling Panels Sector 3	5	06-Jan-20 A	01-Apr-20	-237					
UMS.12.36.0100	UMS_CN_31 Install Booth Countertops	5	31-Mar-20	06-Apr-20	-218					
UMS.09.24.0300	UMS_CN_Install Gypboard Ceiling - North Concourse Sector 2	10	14-Oct-19 A	09-Apr-20	-219					
UMS.08.88.0115	UMS_Install Fire Rated Glass Wall Assemblies Elevator #1, 2 (08 88 20)	10	20-May-19 A	10-Apr-20	-215					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
UMS.09.53.0350	UMS_CN - Concourse: Install Metal Ceiling Panels Sector 4	10	30-Dec-19 A	10-Apr-20	-234					
UMS.09.24.0310	UMS_CN_Install Veneer Plaster - North Concourse Sector 2	5	07-Oct-19 A	13-Apr-20	-219					
UMS.07.43.0170	UMS_Install Crystallized Glass Wall Panels - Concourse Level, South	15	07-Oct-19 A	13-Apr-20	-210					
UMS.09.24.0270	UMS_CN_Install Gypboard Ceiling Support Framing - North Concourse Sector 2	15	31-Jul-19 A	20-Apr-20	-237					
UMS.09.66.0520	UMS_CN 03 - South Concourse Stair 6 Landing - Prepare Floor Surface - Terrazzo Flooring	3	16-Apr-20	20-Apr-20	-212					
UMS.09.66.0480	UMS_CN 02 - Central Concourse: Install - Terrazzo Flooring - Sector 4	3	06-Jan-20 A	20-Apr-20	-213					
UMS.09.66.0530	UMS_CN 03 - South Concourse Stair 6 Landing - Layout Design - Terrazzo Flooring	2	21-Apr-20	22-Apr-20	-212					
UMS.09.66.0490	UMS_CN 02 - Central Concourse: Install - Terrazzo Cove Base Sector 4	2	20-Jan-20 A	22-Apr-20	-213					
UMS.09.66.0540	UMS_CN 03 - South Concourse Stair 6 Landing - Install - Terrazzo Flooring	5	23-Apr-20	29-Apr-20	-212					
UMS.09.66.0550	UMS_CN 03 - South Concourse Stair 6 Landing - Install - Terrazzo Cove Base	2	30-Apr-20	01-May-20	-212					
UMS.09.66.0250	UMS_CN 01 - North Concourse: Seal - Terrazzo Flooring & Cove Base Sector 2	5	27-Apr-20	04-May-20	-200					
UMS.01.64.0255	UMS_Vendor Install:Owner Furnished Ticket Vending Machines North Concourse	5	27-Apr-20	04-May-20	-230					
UMS.09.66.0230	UMS_CN 01 - North Concourse: Install - Terrazzo Cove Base Sector 2	5	27-Apr-20	04-May-20	-230					
UMS.09.66.0240	UMS_CN 01 - North Concourse: Grind & Polish - Terrazzo Flooring & Cove Base Sector 2	10	20-Apr-20	04-May-20	-230					
UMS.09.66.0300	UMS_CN 02 - Central Concourse: Grind & Polish - Terrazzo Flooring & Cove Base Sector 3	10	17-Feb-20 A	06-May-20	-213					
UMS.09.66.0500	UMS_CN 02 - Central Concourse: Grind & Polish - Terrazzo Flooring & Cove Base Sector 4	10	03-Feb-20 A	06-May-20	-210					
UMS.08.34.0100	UMS_South Concourse_ Install Overhead Coiling Grilles - Apple Entrance	5	04-May-20	08-May-20	-210					
UMS.09.66.0560	UMS_CN 03 - South Concourse Stair 6 Landing - Grind & Polish - Terrazzo Flooring & Cove Base	5	04-May-20	08-May-20	-212					
UMS.09.66.620	UMS_CN 03 - South Concourse - Seal - Terrazzo Flooring & Cove Base Sector 6	2	07-May-20	08-May-20	-200					
UMS.09.66.0310	UMS_CN 02 - Central Concourse: Seal - Terrazzo Flooring & Cove Base	2	06-Jan-20 A	08-May-20	-205					
UMS.09.66.0370	UMS_CN 03 - South Concourse - Seal - Terrazzo Flooring & Cove Base Sector 5	2	07-May-20	08-May-20	-195					
UMS.09.66.0510	UMS_CN 02 - Central Concourse: Seal - Terrazzo Flooring & Cove Base Sector 4	2	07-May-20	08-May-20	-210					
UMS.01.64.0230	UMS_Vendor Install:Owner Furnished Fare Gates North Concourse	5	04-May-20	11-May-20	-195					
UMS.09.66.0200	UMS_CN 01 - North Concourse: Prepare Floor Surface - Terrazzo Floor Sector 2	10	27-Apr-20	11-May-20	-230					
UMS.09.66.0210	UMS_CN 01 - North Concourse: Layout Design - Terrazzo Flooring Sector 2	4	05-May-20	11-May-20	-230					
UMS.09.66.0220	UMS_CN 01 - North Concourse: Install - Terrazzo Flooring Sector 2	10	27-Apr-20	11-May-20	-230					
UMS.09.66.0570	UMS_CN 03 - South Concourse Stair 6 Landing - Seal - Terrazzo Flooring & Cove Base	2	11-May-20	12-May-20	-212					
UMS.08.34.0110	UMS_South Concourse_ Install Overhead Coiling Door & Grille - BART Entrance	5	11-May-20	15-May-20	-210					
UMS.01.64.0235	UMS_Vendor Install:Owner Furnished Ticket Vending Machines South Concourse	5	11-May-20	15-May-20	-200					
UMS.01.64.0245	UMS_Vendor Install:Owner Furnished Fare Gates South Concourse	5	11-May-20	15-May-20	-200					
UMS.08.44.0120	UMS_Install Glass Panels - Elevator #3 Concourse Level	10	13-May-19 A	19-May-20	-242					
UMS.10.14.290	UMS_CN_Install Signage Concourse Level	10	18-May-20	29-May-20	-220					
UMS.03.45.0100	UMS_Precast Architectural Concrete Circular Bench- Concourse Level (03 45 00)	5	28-Oct-19 A	01-Jun-20	-221					
UMS.05.70.0130	UMS_CN_Install SS Column Covers/ Seismic Expansion Joint Covers- Concourse Level (05 70 00)	5	20-May-19 A	05-Jun-20	-220					
UMS.08.62.0160	UMS_Install Glass Floor System Concourse Level	10	06-May-19 A	17-Jun-20	-233					
UMS.08.33.100	UMS_Install Overhead Coiling Door - Concourse Level Maint Hatch	5	16-Jun-20	22-Jun-20	-236					
Intermediate Strut Level		424	07-May-18 A	08-Jun-20	-231					
Mezzanine Level		306	02-May-19 A	06-Jul-20	-251					
Platform Strut Level		29	04-Nov-19 A	06-Apr-20	-221					
Platform Level		411	27-Aug-18 A	25-Jun-20	168					
No 13-Level		517	10-Apr-17 A	01-Jul-20	-235					
Conveyances		352	03-Dec-18 A	26-May-20	-207					
Stairs		354	06-Aug-18 A	19-May-20	-212					
Startup & Testing		46	22-May-20	24-Jul-20	-250					
No 13-Disp		1936	09-Jan-14 A	18-Nov-20	725					
Construction CTS Station P-1254R		1786	06-Sep-13 A	18-Nov-20	725					
Administrative / Milestones		9	24-Mar-20	02-Apr-20	-349					
Preconstruction		15	27-Aug-18 A	14-Feb-20 A						
Site Work / Utility Relocation		386	31-Dec-18 A	29-Jun-20	165					
Demolition		4	02-Mar-20	06-Mar-20	-210					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
Tunnel / Cavern Mining		0	26-Feb-20	26-Feb-20	254					
Cavern Lining		15	02-Apr-18 A	26-Feb-20	-280					
Concrete/Shotcrete		424	18-Oct-18 A	15-Jun-20	-236					
Structural Steel		205	22-Apr-19 A	10-Apr-20	-202					
Masonry		30	04-Sep-19 A	10-Apr-20	-253					
Mechanical		802	13-Feb-17 A	03-Jun-20	-218					
Misc Metal		171	03-Jun-19 A	03-Jun-20	-213					
Electrical		375	07-May-18 A	19-Jun-20	-230					
Entrance Roof Level		54	20-Jan-20 A	01-Jun-20	-249					
Surface Level		189	13-May-19 A	17-Jun-20	-223					
Upper Mezz Level		206	08-Jul-19 A	08-Jun-20	-231					
Lower Mezz Level		130	01-Oct-19 A	19-Jun-20	-230					
Concourse Level		340	08-Oct-18 A	20-May-20	-218					
Platform Level		357	07-May-18 A	26-May-20	-213					
CTS.26.11.205	CTS_PL 18 - Main Elect Rm:Install Conduit Substations SG1 & SG2 To A/CTPSS Equipment	5	19-Aug-19 A	27-Jan-20 A						CTS_PL 18 - Main Elect Rm:Install Conduit Substations SG1 & SG2 To A/CTPSS Equipment
CTS.26.50.235	CTS_PL 20 - Stair 5: Install - Conduit & Boxes For Light Fixtures	2	13-May-19 A	27-Jan-20 A						CTS_PL 20 - Stair 5: Install - Conduit & Boxes For Light Fixtures
CTS.26.50.170	CTS_PL 20 - Stair 5: Install - Conduit & Boxes for Light Switches/Sensors	2	06-May-19 A	27-Jan-20 A						CTS_PL 20 - Stair 5: Install - Conduit & Boxes for Light Switches/Sensors
CTS.26.50.165	CTS_PL 06 - Stair 5A: Install - Conduit & Devices for Lighting	2	16-May-19 A	27-Jan-20 A						CTS_PL 06 - Stair 5A: Install - Conduit & Devices for Lighting
CTS.26.50.315	CTS_PL 20 - Stair 5: Pull Wire & Set Light Switches/Sensors	2	28-Jan-20 A	29-Jan-20 A						CTS_PL 20 - Stair 5: Pull Wire & Set Light Switches/Sensors
CTS.26.50.390	CTS_PL 20 - Stair 5: Pull Wire & Set Light Fixtures	2	28-Jan-20 A	29-Jan-20 A						CTS_PL 20 - Stair 5: Pull Wire & Set Light Fixtures
CTS.26.11.235	CTS_PL 18 - Main Elect Rm:Pull & Terminate Power Cable Substations SG1 To A/C TPSS Equipme	5	28-Jan-20 A	03-Feb-20 A						CTS_PL 18 - Main Elect Rm:Pull & Terminate Power Cable Substations SG1 To A/C TPSS Equipme
CTS.26.12.195	CTS_PL 21 - Aux Elect Rm: Terminations - Transformer T-9 & Disconnect Switch - Sector 3	1	17-Feb-20 A	19-Feb-20 A						CTS_PL 21 - Aux Elect Rm: Terminations -Transformer T-9 & Disconnect Switch - Sector 3
CTS.26.50.230	CTS_PL 06 - Stair 5A: Install - Hang Light Fixtures & Terminate	2	30-Oct-19 A	27-Feb-20	-145					CTS_PL 06 - Stair 5A: Install - Hang Light Fixtures & Terminate
CTS.26.50.180	CTS_PL 09 - Aux Comm Rm: Install - Conduit & Devices For Lighting	2	29-Oct-19 A	27-Feb-20	-224					CTS_PL 09 - Aux Comm Rm: Install - Conduit & Devices For Lighting
CTS.26.50.220	CTS_PL 04 - Stair 4: Install - Conduit & Devices for Lighting	2	06-May-19 A	27-Feb-20	-224					CTS_PL 04 - Stair 4: Install - Conduit & Devices for Lighting
CTS.26.50.325	CTS_PL 09 - Aux Comm Rm: Pull Wire- Lighting	1	28-Feb-20	28-Feb-20	-224					CTS_PL 09 - Aux Comm Rm: Pull Wire- Lighting
CTS.26.50.400	CTS_PL 09 - Aux Comm Rm: Hang Fixtures & Terminate	1	02-Mar-20	02-Mar-20	-224					CTS_PL 09 - Aux Comm Rm: Hang Fixtures & Terminate
CTS.26.50.375	CTS_PL 04 - Stair 4: Pull Wire - Lighting	2	28-Feb-20	02-Mar-20	-224					CTS_PL 04 - Stair 4: Pull Wire - Lighting
CTS.26.50.440	CTS_PL 04 - Stair 4: Hang Light Fixtures & Terminate	1	03-Mar-20	03-Mar-20	-224					CTS_PL 04 - Stair 4: Hang Light Fixtures & Terminate
CTS.26.50.250	CTS_PL 12 - Train Control Rm: Install - Conduit Back To LMZ Control Rm	4	28-Oct-19 A	03-Mar-20	-177					CTS_PL 12 - Train Control Rm: Install - Conduit Back To LMZ Control Rm
CTS.26.50.200	CTS_PL 17 - Corridor: Install - Conduit & Devices for Lighting	2	02-Mar-20	03-Mar-20	-228					CTS_PL 17 - Corridor: Install - Conduit & Devices for Lighting
CTS.34.22.210	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS06 (Traction Power)	1	03-Mar-20	04-Mar-20	-216					CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS06 (Traction Power)
CTS.26.50.290	CTS_PL 16 - TP Substation Rm: Install - Conduit & Boxes for Light Switches/Sensors	4	02-Mar-20	05-Mar-20	-194					CTS_PL 16 - TP Substation Rm: Install - Conduit & Boxes for Light Switches/Sensors
CTS.26.50.210	CTS_PL 21 - Aux Elect Rm: Install - Conduit & Devices for Lighting	2	05-Mar-20	06-Mar-20	-224					CTS_PL 21 - Aux Elect Rm: Install - Conduit & Devices for Lighting
CTS.26.50.365	CTS_PL 21 - Aux Elect Rm: Pull Wire- Lighting	0	09-Mar-20	09-Mar-20	-224					CTS_PL 21 - Aux Elect Rm: Pull Wire- Lighting
CTS.34.05.140	CTS_PL_Install Conduit NB Positive Feeder Box PS03 to PS09 (Traction Power)	4	11-Feb-19 A	09-Mar-20	-226					CTS_PL_Install Conduit NB Positive Feeder Box PS03 to PS09 (Traction Power)
CTS.26.50.160	CTS_PL 03 - Aux Elect Rm: Install - Conduit & Devices For Lighting	2	15-Nov-19 A	09-Mar-20	-210					CTS_PL 03 - Aux Elect Rm: Install -Conduit & Devices For Lighting
CTS.34.22.250	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS07 (Traction Power)	2	06-Mar-20	10-Mar-20	-220					CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS07 (Traction Power)
CTS.34.22.260	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS02 to PS08 (Traction Power)	2	06-Mar-20	10-Mar-20	-220					CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS02 to PS08 (Traction Power)
CTS.34.2.240	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS05 (Traction Power)	2	06-Mar-20	10-Mar-20	-220					CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS05 (Traction Power)
CTS.26.50.430	CTS_PL 21 - Aux Elect Rm: Hang Light Fixtures & Terminate	2	09-Mar-20	10-Mar-20	-224					CTS_PL 21 - Aux Elect Rm: Hang Light Fixtures & Terminate
CTS.34.22.220	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS09 (Traction Power)	2	09-Mar-20	11-Mar-20	-221					CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS09 (Traction Power)
CTS.26.50.265	CTS_PL 17 - Corridor: Install - Alarms & Card Readers	2	09-Oct-19 A	11-Mar-20	-183					CTS_PL 17 - Corridor: Install - Alarms & Card Readers
CTS.26.50.305	CTS_PL 03 - Aux Elect Rm: Pull Wire - Lighting	2	10-Mar-20	11-Mar-20	-210					CTS_PL 03 - Aux Elect Rm: Pull Wire - Lighting
CTS.28.31.131	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Control Panel - Sector 3	5	07-May-18 A	12-Mar-20	-227					CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Control Panel - Sector 3
CTS.28.31.142	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Terminal Cabinet - Sector 3	4	05-Nov-19 A	12-Mar-20	-227					CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Terminal Cabinet - Sector 3
CTS.26.50.380	CTS_PL 03 - Aux Elect Rm: Hang Light Fixtures & Terminate	1	12-Mar-20	12-Mar-20	-210					CTS_PL 03 - Aux Elect Rm: Hang Light Fixtures & Terminate
CTS.28.31.132	CTS_PL 17 - Corridor - Install - Fire Alarm Clean Agent Control Panel	5	09-Mar-20	13-Mar-20	-231					CTS_PL 17 - Corridor - Install - Fire Alarm Clean Agent Control Panel
CTS.34.05.150	CTS_PL_Install Conduit NB Positive Feeder Box PS04 to PS10 (Traction Power)	5	11-Feb-19 A	16-Mar-20	-226					CTS_PL_Install Conduit NB Positive Feeder Box PS04 to PS10 (Traction Power)
CTS.26.50.1075	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Raceway	3	17-Dec-18 A	17-Mar-20	-227					CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Raceway
CTS.34.22.230	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS04 to PS10 (Traction Power)	2	16-Mar-20	18-Mar-20	-226					CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS04 to PS10 (Traction Power)

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
CTS.28.31.133	CTS_PL 17 - Corridor - Install - Fire Alarm Preaction Cabinet	5	16-Mar-20	20-Mar-20	-231					CTS_PL 17 - Corridor - Install - Fire Alarm Preaction Cabinet
CTS.26.05.200	CTS_PL 18 - Protective Device Settings - 12.47kV to 480v Connection	5	18-Mar-20	24-Mar-20	-240					CTS_PL 18 - Protective Device Settings - 12.47kV to 480v Connection
CTS.26.50.460	CTS_PL 08 - Mens Restroom: Install - Conduit & Boxes For Light Fixtures	5	11-Nov-19 A	24-Mar-20	-242					CTS_PL 08 - Mens Restroom: Install - Conduit & Boxes For Light Fixtures
CTS.26.50.455	CTS_PL 07 - Womens Restroom: Install - Conduit & Boxes For Light Fixtures	5	11-Nov-19 A	24-Mar-20	-242					CTS_PL 07 - Womens Restroom: Install - Conduit & Boxes For Light Fixtures
CTS.26.11.915	CTS_PL 18 - Main Elect Rm: Wire Pulls - Riser In Chase @ Col 2.0 To Surface	5	18-Mar-20	24-Mar-20	-219					CTS_PL 18 - Main Elect Rm: Wire Pulls - Riser In Chase @ Col 2.0 To Surface
CTS.26.24.225	CTS_PL 03 - Aux Elect Rm: Install - Panelboard 5NP (Ad Panels)	2	30-Mar-20	31-Mar-20	-220					CTS_PL 03 - Aux Elect Rm: Install - Panelboard 5NP (Ad Panels)
CTS.26.50.1115	CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Fire Alarm Cabinets	10	18-Mar-20	31-Mar-20	-227					CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Fire Alarm Cabinets
CTS.26.50.175	CTS_PL 19 - Sewage Ejector Rm: Install - Conduit & Device for Lighting	2	11-Nov-19 A	01-Apr-20	-225					CTS_PL 19 - Sewage Ejector Rm: Install - Conduit & Device for Lighting
CTS.26.24.230	CTS_PL 03 - Aux Elect Rm: Install - Panelboard 5NHL (Spare Powe)	2	01-Apr-20	02-Apr-20	-217					CTS_PL 03 - Aux Elect Rm: Install - Panelboard 5NHL (Spare Powe)
CTS.26.50.205	CTS_PL 14 - Emerg Equip Rm: Install - Alarms & Access Card Readers	5	08-Jul-19 A	02-Apr-20	-176					CTS_PL 14 - Emerg Equip Rm: Install - Alarms & Access Card Readers
CTS.26.50.320	CTS_PL 19 - Sewage Ejector Rm: Pull Wire Lighting	2	02-Apr-20	03-Apr-20	-225					CTS_PL 19 - Sewage Ejector Rm: Pull Wire Lighting
CTS.26.50.395	CTS_PL 19 - Sewage Ejector Rm: Hang Light Fixtures & Terminate	1	06-Apr-20	06-Apr-20	-225					CTS_PL 19 - Sewage Ejector Rm: Hang Light Fixtures & Terminate
CTS.26.24.235	CTS_PL 03 - Aux Elect Rm: Install - Panelboard E5NP (FSD,Deluge,Emerg Blu Ltg)	2	03-Apr-20	06-Apr-20	-214					CTS_PL 03 - Aux Elect Rm: Install - Panelboard E5NP (FSD,Deluge,Emerg Blu Ltg)
CTS.26.24.255	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NP (Ad Panels)	5	01-Apr-20	07-Apr-20	-220					CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NP (Ad Panels)
CTS.26.24.160	CTS_PL 21 - Aux Elect Rm: Install - Elect Panel LCP-5 - Sector 3 (Lighting Control)	2	06-Apr-20	07-Apr-20	-223					CTS_PL 21 - Aux Elect Rm: Install - Elect Panel LCP-5 - Sector 3 (Lighting Control)
CTS.26.24.240	CTS_PL 03 - Aux Elect Rm: Install - Panelboard E5NHL (Emerg Ltg Stair 4)	2	07-Apr-20	08-Apr-20	-212					CTS_PL 03 - Aux Elect Rm: Install - Panelboard E5NHL (Emerg Ltg Stair 4)
CTS.26.50.270	CTS_PL 14 - Emerg Equip Rm: Install - Lighting	5	03-Apr-20	09-Apr-20	-176					CTS_PL 14 - Emerg Equip Rm: Install - Lighting
CTS.28.31.134	CTS_PL 19 - Sewage Ejector Rm: Install - FA Preaction Cabinet - Sector 3	4	04-Nov-19 A	10-Apr-20	-225					CTS_PL 19 - Sewage Ejector Rm: Install - FA Preaction Cabinet - Sector 3
CTS.28.20.148	CTS_PL 09 - Aux Comm Rm: Install - CCTV Rack Cabinet - Sector 3	5	06-Apr-20	10-Apr-20	-237					CTS_PL 09 - Aux Comm Rm: Install - CCTV Rack Cabinet - Sector 3
CTS.26.12.245	CTS_PL 03 - Aux Elect Rm: Install - Transformer T-5 & Disconnect Switch	2	09-Apr-20	10-Apr-20	-212					CTS_PL 03 - Aux Elect Rm: Install - Transformer T-5 & Disconnect Switch
CTS.26.24.170	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SHL - Sector 3 (Emerg Ltg)	5	06-Apr-20	10-Apr-20	-241					CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SHL - Sector 3 (Emerg Ltg)
CTS.26.50.1085	CTS_PL 09 - Aux Comm Rm: Install -CCTV Raceway	2	24-Dec-18 A	14-Apr-20	-237					CTS_PL 09 - Aux Comm Rm: Install -CCTV Raceway
CTS.26.24.260	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NHL (Spare Powe)	5	08-Apr-20	14-Apr-20	-220					CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NHL (Spare Powe)
CTS.26.50.1155	CTS_PL 09 - Aux Comm Rm: Terminations - Fire Alarm Cabinets	10	01-Apr-20	14-Apr-20	-227					CTS_PL 09 - Aux Comm Rm: Terminations - Fire Alarm Cabinets
CTS.28.31.135	CTS_PL 19 - Sewage Ejector Rm: Install - FA Clean Agent Control Panel - Sector 3	5	11-Nov-19 A	17-Apr-20	-225					CTS_PL 19 - Sewage Ejector Rm: Install - FA Clean Agent Control Panel - Sector 3
CTS.28.20.525	CTS_PL 09 - Aux Comm Rm: Install - Telephone Rack Cabinet - Sector 3	5	13-Apr-20	17-Apr-20	-236					CTS_PL 09 - Aux Comm Rm: Install - Telephone Rack Cabinet - Sector 3
CTS.26.24.175	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SP - Sector 3 (Deluge,Tele,CCTV,FSD,Pre:	5	13-Apr-20	17-Apr-20	-241					CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SP - Sector 3 (Deluge,Tele,CCTV,FSD,Preaction)
CTS.26.11.960	CTS_PL 18 - PG&E Coordination Study and Bench Test	38	26-Feb-20	17-Apr-20	-258					CTS_PL 18 - PG&E Coordination Study and Bench Test
CTS.26.50.1095	CTS_PL 09 - Aux Comm Rm: Install - Telephone Raceway	2	10-Dec-18 A	21-Apr-20	-233					CTS_PL 09 - Aux Comm Rm: Install - Telephone Raceway
CTS.26.50.215	CTS_PL 02 - Fire Equip Rm: Install - Conduit & Devices for Lighting	5	04-Nov-19 A	21-Apr-20	-237					CTS_PL 02 - Fire Equip Rm: Install - Conduit & Devices for Lighting
CTS.26.24.265	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NP (FSD,Deluge,Emerg Blu Ltg)	5	15-Apr-20	21-Apr-20	-220					CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NP (FSD,Deluge,Emerg Blu Ltg)
CTS.26.50.1205	CTS_PL Station Platform South: Install - Linear Lighting Box Sector 2	9	13-Apr-20	23-Apr-20	-211					CTS_PL Station Platform South: Install - Linear Lighting Box Sector 2
CTS.26.24.270	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NHL (Emerg Ltg Stair 4)	2	22-Apr-20	23-Apr-20	-220					CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NHL (Emerg Ltg Stair 4)
CTS.26.50.1195	CTS_Station Platform South: Install - Linear Lighting Box Sector 3	10	13-Apr-20	24-Apr-20	-215					CTS_Station Platform South: Install - Linear Lighting Box Sector 3
CTS.28.20.535	CTS_PL 09 - Aux Comm Rm: Install - PA Remote Panel - Sector 3	5	20-Apr-20	24-Apr-20	-236					CTS_PL 09 - Aux Comm Rm: Install - PA Remote Panel - Sector 3
CTS.26.11.900	CTS_PL 18 - Main Elect Rm: Energize Main Substation SG1 & SG2	5	20-Apr-20	24-Apr-20	-258					CTS_PL 18 - Main Elect Rm: Energize Main Substation SG1 & SG2
CTS.26.11.905	CTS_PL 18 - Main Elect Rm: Energize Substation DS1 & DS2	5	20-Apr-20	24-Apr-20	-258					CTS_PL 18 - Main Elect Rm: Energize Substation DS1 & DS2
CTS.26.12.275	CTS_PL 03 - Aux Elect Rm: Terminations - Transformer T-5 & Disconnect Switch	1	24-Apr-20	24-Apr-20	-220					CTS_PL 03 - Aux Elect Rm: Terminations - Transformer T-5 & Disconnect Switch
CTS.26.24.180	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SP - Sector 3 (Digital Ads, Rcpt)	5	20-Apr-20	24-Apr-20	-241					CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SP - Sector 3 (Digital Ads, Rcpt)
CTS.26.50.470	CTS_PL 08 - Mens Restroom: Pull Wire & Set Light Fixtures	5	21-Apr-20	27-Apr-20	-261					CTS_PL 08 - Mens Restroom: Pull Wire & Set Light Fixtures
CTS.26.50.465	CTS_PL 07 - Womens Restroom: Pull Wire & Set Light Fixtures	5	21-Apr-20	27-Apr-20	-261					CTS_PL 07 - Womens Restroom: Pull Wire & Set Light Fixtures
CTS.26.50.370	CTS_PL 02 - Fire Equip Rm: Pull Wire - Lighting	5	22-Apr-20	28-Apr-20	-237					CTS_PL 02 - Fire Equip Rm: Pull Wire - Lighting
CTS.26.50.1105	CTS_PL 09 - Aux Comm Rm: Install - P.A. Raceway	2	15-Jul-19 A	28-Apr-20	-236					CTS_PL 09 - Aux Comm Rm: Install - P.A. Raceway
CTS.26.50.1125	CTS_PL 09 - Aux Comm Rm: Wire Pulls to -CCTV Cabinet	10	15-Apr-20	28-Apr-20	-237					CTS_PL 09 - Aux Comm Rm: Wire Pulls to -CCTV Cabinet
CTS.34.21.915	CTS_PL 18 - Main Elect Rm: Energize A/C TPSS Equipment	5	27-Apr-20	01-May-20	-248					CTS_PL 18 - Main Elect Rm: Energize A/C TPSS Equipment
CTS.26.24.185	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SHL - Sector 3 (Public Ltg, Water Heater)	5	27-Apr-20	01-May-20	-241					CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SHL - Sector 3 (Public Ltg, Water Heater)
CTS.26.50.435	CTS_PL 02 - Fire Equip Rm: Hang Light Fixtures & Terminate	5	29-Apr-20	05-May-20	-237					CTS_PL 02 - Fire Equip Rm: Hang Light Fixtures & Terminate
CTS.26.50.1135	CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Telephone Cabinet	10	22-Apr-20	05-May-20	-232					CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Telephone Cabinet
CTS.34.21.935	CTS_PL 18 - Main Elect Rm: Energize DC TPSS Equipment	5	04-May-20	08-May-20	-248					CTS_PL 18 - Main Elect Rm: Energize DC TPSS Equipment
CTS.26.24.190	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel LCP-5 - Sector 3 (Lighting Control)	5	04-May-20	08-May-20	-241					CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel LCP-5 - Sector 3 (Lighting Control)

**SFMTA Central Subway Project
Master Project Schedule
One Month Back & Remaining Work - February 2020 Update**

**Required Revenue Serive Date 26-Dec-18
Data Date: 26-Feb-20**

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
CTS.26.50.480	CTS_PL 08 - Mens Restroom: Install - Electric Light Fixtures	5	05-May-20	11-May-20	-245					
CTS.26.50.475	CTS_PL 07 - Womens Restroom: Install - Electric Light Fixtures	5	05-May-20	11-May-20	-244					
CTS.26.50.1145	CTS_PL 09 - Aux Comm Rm: Wire Pulls - P.A. Cabinet	9	29-Apr-20	11-May-20	-236					
CTS.26.24.925	CTS_PL 21 - Aux Elect Rm: Energize Panels - Sector 3	1	11-May-20	11-May-20	-241					
CTS.26.50.1165	CTS_PL 09 - Aux Comm Rm: Terminations - CCTV Cabinets	10	29-Apr-20	12-May-20	-237					
CTS.26.50.1215	CTS_Station Platform South: Install - Linear Lighting Box Sector 1	10	08-May-20	21-May-20	-233					
CTS.26.50.1175	CTS_PL 09 - Aux Comm Rm: Terminations - Telephone Cabinets	10	13-May-20	26-May-20	-237					
CTS.26.50.1185	CTS_PL 09 - Aux Comm Rm: Terminations - P.A. Cabinet	10	13-May-20	26-May-20	-237					
Under Platform Level		323	17-Dec-18 A	28-Apr-20	-232					
Electrical - Transportation		135	21-Oct-19 A	22-Apr-20	-236					
Architectual Finishes		308	26-Apr-19 A	09-Jul-20	-231					
Conveyances		101	30-Dec-19 A	12-Jun-20	176					
Startup & Testing		78	13-Apr-20	29-Jul-20	-258					
No 13-Disp		1786	06-Sep-13 A	18-Nov-20	725					
Construction YBM Station P-1255		1786	04-Mar-14 A	18-Nov-20	725					
Preconstruction		15	27-Aug-18 A	14-Feb-20 A						
Concrete/Shotcrete		609	13-Nov-17 A	08-May-20	-210					
Electrical		207	18-Jul-19 A	05-May-20	-238					
Electrical - Transportation		242	28-May-19 A	16-Apr-20	-225					
Conveyances		503	06-Apr-18 A	15-May-20	-240					
Startup & Testing		40	22-May-20	16-Jul-20	-244					
No 13-Disp		1786	04-Mar-14 A	18-Nov-20	725					
Surface Level		493	05-Mar-18 A	16-Jul-20	-249					
All Levels		73	17-Mar-20	25-Jun-20	-244					
Concourse Level		741	04-Sep-17 A	12-Jun-20	-225					
Mezzanine Level		600	03-Apr-17 A	10-Jun-20	178					
Platform Level		539	17-Apr-17 A	09-Jun-20	-237					
YBM.09.63.150	Anti Static Flooring Platform Level, PL104 Aux Comms (09 63 18)	5	07-Feb-20 A	13-Feb-20 A						
YBM.09.62.110	Install Rubbing Edge Board- Platform Level	5	30-Sep-19 A	14-Feb-20 A						
YBM.21.13.595	YBM_PL_205 TCU/TCS Rm: Install Preaction Sprinkler System Detectors	2	26-Aug-19 A	27-Feb-20	-229					
YBM.21.13.625	YBM_PL_104 Aux Comm Rm: Install Preaction Sprinkler System Detectors	2	26-Feb-20	27-Feb-20	-192					
YBM.21.22.555	YBM_PL_205 TCU/TCS Rm: Install Clean Agent Fire Extinguishing System Cylinders	2	04-Mar-19 A	02-Mar-20	-229					
YBM.21.22.565	YBM_PL_205 TCU/TCS Rm: Install Clean Agent Fire Extinguishing System Control Panel	2	03-Sep-19 A	04-Mar-20	-229					
YBM.23.31.311	YBM_PL-207 - Aux Elect Rm:Install - HVAC: Install VRV Units Concourse Level	10	26-Feb-20	10-Mar-20	-236					
YBM.07.42.110	Perforated Metal Wall Panels- WP02, Platform Level, West (07 42 13)	15	02-Dec-19 A	17-Mar-20	-212					
YBM.10.14.105	Install Signage, Platform Level (10 14 00)	5	18-Mar-20	24-Mar-20	-228					
YBM.23.09.130	YBM_Install: HVAC Instrumentation & Controls, Platform Level (23 09 13)	15	17-Apr-17 A	31-Mar-20	-236					
YBM.28.20.0080	YBM_Install:: Security: CCTV System Platform Level	15	04-Sep-17 A	01-Apr-20	-300					
YBM.09.53.100	Perforated Metal Ceiling Systems, CL30, Platform Level- East (09 53 23.55)	15	18-Mar-20	07-Apr-20	-227					
YBM 28.13.100	YBM_Install: Security: Security System (Traction Power) (28 13 10)	15	18-Mar-20	07-Apr-20	-212					
YBM.09.53.135	Perforated Metal Ceiling Systems, CL30, Platform Level- West (09 53 23.55)	5	23-Dec-19 A	14-Apr-20	-227					
YBM.08.11.107	Install - Door & Hardware, Platform Level	5	16-Sep-19 A	23-Apr-20	-199					
YBM.05.53.110	Install Metal Gratings- Platform Level (05 53 00)	5	17-Apr-20	23-Apr-20	-199					
YBM.09.66.130	Terrazzo Treads - Stair #3, FL11 (09 66 23)	9	20-Apr-20	30-Apr-20	-228					
YBM.28.31.0140	YBM_Install Security: Addressable Fire Alarm System Platform Level	15	04-Sep-17 A	01-May-20	-330					
YBM.07.43.100	Glass Wall Panels/ supports, Stair#2, WP30, Platform, Level (07 43 53)	10	06-Jan-20 A	22-May-20	-244					
YBM.23.08.120	YBM_PL - Test & Balance HVAC Platform Level	10	12-May-20	25-May-20	-236					
YBM.09.66.160	Final Grind/ Polish Terrazzo Flooring- Platform Level (09 66 23)	4	26-May-20	29-May-20	-230					
YBM.10.14.100	Install Exit Signs and Contrast Strips- Platform Level (10 14 43)	10	18-May-20	29-May-20	-225					
YBM.05.70.100	Install Tube Steel Metal frame for Kiosks, Platform Level (05 70 00)	5	26-May-20	01-Jun-20	-232					
YBM.05.70.130	MEP Complete/ Inspection @ Kiosks, Platform Level (05 70 00)	1	02-Jun-20	02-Jun-20	-232					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
YBM.09.66.140	Terrazzo Treads - Stair #2, FL11 (09 66 23)	10	25-May-20	05-Jun-20	-244					
YBM.05.70.140	Install Decorative Metal Panel for Kiosks, Platform Level (05 70 00)	5	03-Jun-20	09-Jun-20	-232					
Under Platform Level										
No 13-Level										
Construction STS P-1256										
Preconstruction										
Concrete/Shotcrete										
Tunnel Concrete										
Platform Level										
Structural Steel										
Electrical										
Upper Mezz Level										
Lower Mezz Level										
Intermediate Strut Level										
Mezzanine Level										
Platform Level										
No 13-Level										
STS.26.05.1010	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square	3	25-Mar-20	27-Mar-20	-233					
STS 27 32 10 f1	STS_Prep\Submit: Comm: Radio System Test Plans & Procedures	5	26-Mar-20	30-Mar-20	-414					
STS 34 42 39 c	STS_Fab\Deliver: Transportation: ATCS Central Equipment (34 42 39)	10	21-Mar-20	30-Mar-20	-337					
STS.34.42.2120	STS_Install: Train Control - ATSC Power Panels - Chinatown Station Control Room	4	25-Mar-20	30-Mar-20	-236					
STS.34.42.2160	STS_Install: Train Control - ATSC 5KVA UPS Battery Cabinet - Union Square Station Control Room	2	27-Mar-20	30-Mar-20	-238					
STS.26.05.1480	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - NB Chinatown to North Limits	4	25-Mar-20	30-Mar-20	-219					
STS.34.23.1230	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Union Square to Chinatown	5	24-Mar-20	30-Mar-20	-323					
STS.26.05.3510	STS_Install: Lighting - 4th/Brannan Station	10	19-Feb-18 A	31-Mar-20	-220					
STS 01 80 00 b2	STS_Prep/Submit: Commissioning Plan & Procedure (NLT 120 Days Prior to Commissioning)	30	02-Mar-20	31-Mar-20	-358					
STS 33 11 21 a12	STS_Construct: AWSS Cistem Ring	15	11-Mar-20	31-Mar-20	-182					
STS.20.71.550	STS_Manufacture - PCC SCADA Equipment	20	17-Jan-20 A	31-Mar-20	-240					
STS.34.23.2600	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Townsend To King Street	2	30-Mar-20	31-Mar-20	-263					
STS.34.23.1410	STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB Chinatown to North Limits	5	25-Mar-20	31-Mar-20	-230					
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Portal To Moscone	4	26-Mar-20	31-Mar-20	-331					
STS.28.20.2020	STS_Install: - SCADA System Terminations - UMS Communications Rm	10	18-Mar-20	31-Mar-20	-220					
STS.34.22.3170	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB09 To SB05 - UMS To MC	3	27-Mar-20	31-Mar-20	-253					
STS.26.05.1560	STS_Install: Tunnel Electrical -Lighting Fixtures - NB Chinatown to North Limits	5	25-Mar-20	31-Mar-20	-220					
STS.34.42.2230	STS_Install: Train Control - ATSC Conduit Under SB Platform - Union Square Station Platform	13	03-Jul-17 A	01-Apr-20	-238					
STS 01 79 00 a2	STS_Review\Approve: Training Program Plan	15	17-Dec-18 A	01-Apr-20	-242					
STS 27 21 05 h2	STS_Review\Approve: Comm: SCADA System API/Service Layer Interface Design	15	12-Mar-20	01-Apr-20	-236					
STS 26 24 16 c2	STS_Review\Approve: Elect: Panelboards Manufacturers Seismic Qual Certification	15	12-Mar-20	01-Apr-20	228					
STS 26 24 16 b2	STS_Review\Approve: Elect: Panelboards Shop Drawings	15	12-Mar-20	01-Apr-20	228					
STS 26 24 16 d2	STS_Review\Approve: Elect: Panelboards Panel Board Schedules	15	12-Mar-20	01-Apr-20	228					
STS 09 30 00 g2	CTS_Review\Approve: Tiling Master Grade Certificates	15	12-Mar-20	01-Apr-20	-216					
STS.20.71.330	STS_Review\Approve: Systems Reliability Analysis - Facilities SCADA - Chinatown	15	12-Mar-20	01-Apr-20	-246					
STS.34.23.1940	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Moscone to Union Square	7	24-Mar-20	01-Apr-20	-332					
STS.34.23.1600	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Chinatown to North Limits	2	31-Mar-20	01-Apr-20	-231					
STS.34.22.3010	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I	4	27-Mar-20	01-Apr-20	-259					
STS.26.05.0920	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Moscone to Union Square	20	26-Nov-19 A	01-Apr-20	-226					
STS.34.42.2110	STS_Install: Train Control - ATSC Transformer - Chinatown Station Control Room	2	31-Mar-20	01-Apr-20	-236					
STS.34.23.1400	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - SB Chinatown to North Limits	1	01-Apr-20	01-Apr-20	-226					
STS.28.20.0950	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Moscone to Union Square	13	13-Dec-19 A	01-Apr-20	-243					
STS.34.41.2120	STS_Install; Traffic Signal Displays 4th St/King	3	30-Mar-20	01-Apr-20	-252					
STS.26.05.3790	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Union Square to Chinatown	5	26-Mar-20	01-Apr-20	-221					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
STS.26.05.3820	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to U	3	30-Mar-20	01-Apr-20	-221					
STS.34.01.24.100	STS_: PA/PDS Software: Operation control Center (34 01 24)	30	18-Dec-19 A	02-Apr-20	-349					
STS.34.01.24.130	STS_: Cable Installation: Operation control Center (34 01 24)	30	04-Mar-20	02-Apr-20	-349					
STS.34.23.1590	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Chinatown to North Limits	1	02-Apr-20	02-Apr-20	-227					
STS.34.23.1220	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Union Square to Chinatown	3	31-Mar-20	02-Apr-20	-319					
STS.34.22.3190	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MOS Nort	1	02-Apr-20	02-Apr-20	227					
STS.34.42.2170	STS_Install: Train Control - ATSC Communication Cable Termination Frame - Union Square Station (4	31-Mar-20	03-Apr-20	-238					
STS.34.42.2200	STS_Install: Train Control - ATSC Transformer - Union Square Station Control Room	2	02-Apr-20	03-Apr-20	-238					
STS.26.05.2160	STS_Install: Traction Power - Install Conduit/TP SCADA Cable to Existing FODP Panel @ King SubS	10	23-Mar-20	03-Apr-20	-248					
STS.34.23.100	STS_Install: Utilities: Install Fiber Optic Ductbank From (E) Pullbox to (E) MH 1879 - King St/4th Stre	5	30-Mar-20	03-Apr-20	-236					
STS.34.42.1940	STS_Install: Surface Signaling - TS Case No.1 - 4th/King	5	30-Mar-20	03-Apr-20	-223					
STS 28 20 05 c	STS_Fab\Deliver: Security: CCTV System (28 20 05)	180	03-Sep-14 A	06-Apr-20	-347					
STS 34 23 16 e	STS_Review\Approve: Transportation: Overhead Testing & Acceptance (34 23 16)	15	17-Mar-20	06-Apr-20	-224					
STS.26.05.1670	STS_Install: Tunnel Electrical - Electrical Power Conduit & JB's - SB Union Square to Chinatown	8	26-Mar-20	06-Apr-20	-242					
STS.34.41.2100	STS_Install; Traffic Signal Displays 4th St/Harrison	3	02-Apr-20	06-Apr-20	-252					
STS.34.23.2000	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - SB Chinatown to North Limits	5	01-Apr-20	07-Apr-20	-230					
STS.34.22.3770	STS_Pull & Terminate 500MCM Riser Cables - 4th Street	5	13-Jan-20 A	07-Apr-20	-225					
STS.RES8.2	STS_Temporary Resource Activity For Transfer to V8.2 DO NOT DELETE !!!!!	30	26-Feb-20	07-Apr-20	-177					
STS 05 12 00 h2	STS_Review\Approve: Structural Steel Mill Test Reports	15	26-Sep-18 A	08-Apr-20	223					
STS.26.05.3870	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Moscone to Union Square	5	02-Apr-20	08-Apr-20	-226					
STS.34.23.1950	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Union Square to Chinatown	7	31-Mar-20	08-Apr-20	-323					
STS.34.23.1960	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Chinatown to North Limits	5	02-Apr-20	08-Apr-20	-231					
STS.28.20.1690	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Union Square to Chinatown	5	02-Apr-20	08-Apr-20	-243					
STS.34.22.2980	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To SB05 - UMS Tc	10	26-Mar-20	08-Apr-20	-259					
STS.34.42.1880	STS_Install: Surface Signaling - Interlocking Signals & Poles 21/23 - 4th/King	8	30-Mar-20	08-Apr-20	-226					
STS.28.20.1720	STS_Install: Tunnel Electrical - CCTV Cameras - NB Portal To Moscone	2	07-Apr-20	08-Apr-20	-240					
STS.26.05.2210	STS_Install: Traction Power -Terminate FODP Panel @ Moscone Folsom SubStation	3	06-Apr-20	08-Apr-20	-236					
STS.28.20.1930	STS_Install: - SCADA Terminal Cabinet - YBM Communications Rm	5	26-Aug-19 A	08-Apr-20	-236					
STS 27 32 10 d1	STS_Prep\Submit: Comm: Radio System Calculations & Certifications	20	21-Mar-20	09-Apr-20	256					
STS.26.05.1660	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Union Square to Chinatown	26	05-Mar-20	09-Apr-20	214					
STS.26.05.1760	STS_Install: Tunnel Electrical - Traction Power Conduit - SB Union Square to Chinatown	30	16-Sep-19 A	09-Apr-20	-257					
STS.26.05.2030	STS_Install: Tunnel Electrical - Mini-Power Centers EP32-EP58 - SB Union Square to Chinatown	3	19-Feb-20 A	09-Apr-20	-242					
STS.26.05.1740	STS_Install: Tunnel Electrical -Lighting Fixtures - SB Union Square to Chinatown	10	27-Mar-20	09-Apr-20	214					
STS.34.22.3160	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS Sour	1	09-Apr-20	09-Apr-20	-259					
STS 27 32 10 c2	STS_Review\Approve: Comm: Radio System Installation Work Plans	15	15-Feb-16 A	10-Apr-20	221					
STS 34 42 37 c	STS_Fab\Deliver: Transportation: ATCS Wayside Equipment (34 42 37)	180	14-Apr-16 A	10-Apr-20	-345					
STS.34.22.2970	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS	2	09-Apr-20	10-Apr-20	-259					
STS.26.05.2070	STS_Install: Traction Power - Remove Existing Mimic Panel Equipment @ PCC	5	06-Apr-20	10-Apr-20	-248					
STS.28.20.1760	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Portal To Moscone	2	09-Apr-20	10-Apr-20	-233					
STS 09 30 00 k1	STS_Construct: Tiling Mockups	10	02-Apr-20	11-Apr-20	-310					
STS 01 79 00 b1	STS_Re-Submit: Training Program Plan	10	02-Apr-20	11-Apr-20	-349					
STS.34.41.2040	STS_Install; Traffic Signal Controllers 4th St	11	09-Oct-17 A	13-Apr-20	-252					
STS.34.23.1900	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Moscone to Union Square	14	25-Mar-20	13-Apr-20	-241					
STS.34.22.3150	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS Nort	1	13-Apr-20	13-Apr-20	-259					
STS.26.05.1680	STS_Install: Tunnel Electrical - Telephone Conduit - & JB's SB Union Square to Chinatown	15	21-Feb-20 A	14-Apr-20	-245					
STS.34.42.0500	STS_Install: Security - NB Portal Intrusion Devices	2	13-Apr-20	14-Apr-20	-240					
STS 27 32 10 e2	STS_Review\Approve: Comm: Radio System Product Samples	15	26-Mar-20	15-Apr-20	-289					
STS.34.22.2960	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To PS-03 - UMS	2	14-Apr-20	15-Apr-20	-259					
STS.28.20.1730	STS_Install: Tunnel Electrical - CCTV Cameras - NB Moscone to Union Square	5	09-Apr-20	15-Apr-20	-240					
STS.26.05.1290	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Chinatown to North Limits	4	10-Apr-20	15-Apr-20	215					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
STS 08 99 00 c	STS_Fab\Deliver: Glass Windscreens (08 99 00)	120	17-Jun-15 A	16-Apr-20	-301					
STS 34 42 13 a2	STS_Review\Approve: Transportation: Surface Signaling System - Testing & Startup Program	15	27-Mar-20	16-Apr-20	-252					
STS 34 42 41 a3	STS_Prepare\Re-Submit: Transportation: ATCS Testing - Testing & Startup Program	20	28-Oct-19 A	16-Apr-20	-354					
STS 09 62 60 c2	STS_Review\Approve: Tactile Hazard Warning Tile Installer's Qualifications	15	27-Mar-20	16-Apr-20	-196					
STS 06 10 53 b2	STS_Review\Approve: Wood Trough Manufacturers Data	15	27-Mar-20	16-Apr-20	-200					
STS 06 10 53 c2	STS_Review\Approve: Wood Trough Restoration Materials/Repair Methods	15	27-Mar-20	16-Apr-20	-200					
STS 09 86 00 b2	STS_Review\Approve: Anti-Graffiti Coating Contractor's Experience List	15	27-Mar-20	16-Apr-20	-194					
STS 09 86 00 c2	STS_Review\Approve: Anti-Graffiti Coating Contractor's/Manufacturers Recommended Coverage Rat	15	27-Mar-20	16-Apr-20	-194					
STS 10 14 00 c2	STS_Review\Approve: Signage Samples For Initial Selection	15	15-Mar-19 A	16-Apr-20	-235					
STS 10 14 00 d2	STS_Review\Approve: Signage Samples For Verification	15	15-Mar-19 A	16-Apr-20	-235					
STS 10 14 00 e2	STS_Review\Approve: Signage Maintenance Data	15	15-Mar-19 A	16-Apr-20	-235					
STS 09 90 00 d2	STS_Review\Approve: Painting & Coating Manufacturers Warranties	15	27-Mar-20	16-Apr-20	-204					
STS 10 41 00 c2	STS_Review\Approve: Display Cases Samples	15	27-Mar-20	16-Apr-20	-235					
STS 06 10 53 a2	STS_Review\Approve: Wood Trough Shop Drawings	15	27-Mar-20	16-Apr-20	-200					
STS 26 08 00 a2	STS_Review\Approve: Elect: Test & Commission (26 08 00)	15	27-Mar-20	16-Apr-20	-232					
STS 10 14 00 b2	STS_Review\Approve: Signage Shop Drawings	15	15-Mar-19 A	16-Apr-20	-235					
STS.20.71.190	STS_Prepare\Submit: Systems Reliability Analysis - Radio Sub-System - Chinatown	5	10-Apr-20	16-Apr-20	197					
STS.20.71.200	STS_Prepare\Submit: Systems Reliability Analysis - Radio Sub-System - UMS	5	10-Apr-20	16-Apr-20	197					
STS.26.05.3880	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown	5	10-Apr-20	16-Apr-20	214					
STS.26.05.1370	STS_Install: Tunnel Electrical -Lighting Fixtures - SB Chinatown to North Limits	5	10-Apr-20	16-Apr-20	214					
STS.28.20.1870	STS_Install: - CCTV Camera Equipment Cabinets - CTS Communications Rm	4	13-Apr-20	16-Apr-20	-233					
STS.26.05.2080	STS_Install: Traction Power - New Equipment Display Rack @ PCC	5	13-Apr-20	17-Apr-20	-248					
STS.28.20.2050	STS_Install: - Terminate CCTV Camera Equipment Cabinets - CTS Communications Rm	5	13-Apr-20	17-Apr-20	-233					
STS.28.20.1770	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Moscone to Union Square	2	16-Apr-20	17-Apr-20	-236					
STS.26.05.1750	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to Chinatown	3	15-Apr-20	17-Apr-20	-236					
STS.27.42.100	STS_Install: Comm: Platform Display System (27 42 16)	15	12-Aug-19 A	17-Apr-20	-233					
STS 22 14 29 c	STS_Fab\Deliver: Sump Pumps (22 14 29)	30	25-Aug-16 A	19-Apr-20	-341					
STS.34.41.1990	STS_Demo/Salvage: Traffic Signals 4th St	15	17-Apr-17 A	20-Apr-20	-252					
STS 27 32 10 f2	STS_Review\Approve: Comm: Radio System Test Plans & Procedures	15	31-Mar-20	20-Apr-20	-289					
STS 34.42.390	STS_Install: Transportation: ATCS Central Equipment - Lennox OCC	15	31-Mar-20	20-Apr-20	-234					
STS 34.42.400	STS_Install: Transportation: ATCS Central Equipment - Transportation Mgmt Center (TMC)	15	31-Mar-20	20-Apr-20	-234					
STS 01 80 00 c1	STS_Review\Approve: Commissioning Plan & Procedure	15	01-Apr-20	21-Apr-20	-249					
STS.20.71.450	STS_Review\Approve: Systems Reliability Analysis - Surface Signalling System	20	25-Mar-20	21-Apr-20	-235					
STS.20.71.510	STS_Review\Approve: Sub-Systems Maintainability Analysis - Radio Systems	20	25-Mar-20	21-Apr-20	-245					
STS.20.71.520	STS_Review\Approve: Sub-Systems Maintainability Analysis - Surface Signalling Systems	20	25-Mar-20	21-Apr-20	-245					
STS.26.05.3890	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Chinatown to North Limits	3	17-Apr-20	21-Apr-20	214					
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Moscone to Union Square	14	02-Apr-20	21-Apr-20	-332					
STS 34 42 15 c	STS_Fab\Deliver: Transportation: Surface Signaling System - Wayside Equip (34 42 15)	180	26-Feb-15 A	22-Apr-20	-338					
STS.28.20.1970	STS_Install: - SCADA Terminations YBM Communications Rm	10	09-Apr-20	22-Apr-20	-236					
STS.34.23.1920	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Union Square to Chinatown	12	07-Apr-20	22-Apr-20	-241					
STS.26.05.3830	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Union Square	3	20-Apr-20	22-Apr-20	-236					
STS.27.32.2110	Radio System CMOD Approval	41	26-Feb-20	22-Apr-20	-291					
STS.26.05.1390	STS_Install: Tunnel Electrical - Traction Power Conduit - SB Chinatown to North Limits	10	15-Jul-19 A	23-Apr-20	-242					
STS.34.23.2620	STS_Install: OCS System - Install OCS Trolley Wire & Special Work In 4th St/Townsend Street - Intersect	17	01-Apr-20	23-Apr-20	-263					
STS.28.20.1740	STS_Install: Tunnel Electrical - CCTV Cameras - NB Union Square to Chinatown	6	16-Apr-20	23-Apr-20	-240					
STS.26.05.2140	STS_Install: Traction Power - Make Fiber Node Connections From King SubStation @PCC (Fiber by 126	5	20-Apr-20	24-Apr-20	-248					
STS.26.05.2090	STS_Install: Traction Power - Video Displays & Cabling @ PCC	10	13-Apr-20	24-Apr-20	-248					
STS.26.05.2100	STS_Install: Traction Power - PCI & TP SCADA Servers @ PCC	10	13-Apr-20	24-Apr-20	-248					
STS.26.05.2130	STS_Install: Traction Power - Make Fiber Node Connections From YBM Folsom SubStation @PCC (Fibe	5	20-Apr-20	24-Apr-20	-248					
STS 08 12 00 c	STS_Fab\Deliver: Blast Resistant Metal Doors\Frames (08 12 00)	60	26-Nov-19 A	25-Apr-20	-345					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
STS 32 17 26 c	STS_Fab\Deliver: Exterior: Tactile Warning Surfacing (32 17 26)	30	28-Mar-20	26-Apr-20	-289					
STS.34.41.2000	STS_Install; Traffic Signals 4th St	15	24-Apr-17 A	27-Apr-20	-252					
STS.27.32.1750	STS_Install: Tunnel Electrical - Radiax Cable NB Portal To Moscone	5	21-Apr-20	27-Apr-20	-258					
STS.34.23.2590	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Bluxome To Townsend	2	24-Apr-20	27-Apr-20	-246					
STS.26.05.1715	STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers SB17- SB Chinatown	2	05-Aug-19 A	27-Apr-20	-242					
STS.28.20.1710	STS_Install: Tunnel Electrical - CCTV Cameras NB Chinatown to North Limits	2	24-Apr-20	27-Apr-20	-240					
STS.28.20.1780	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Union Square to Chinatown	2	24-Apr-20	27-Apr-20	-240					
STS.08.12.110	STS_Install: Blast Resistant Metal Doors\Frames NB Cross Passage #3	3	26-Apr-20	28-Apr-20	-345					
STS.08.12.120	STS_Install: Blast Resistant Metal Doors\Frames NB Cross Passage #4	3	26-Apr-20	28-Apr-20	-345					
STS.08.12.130	STS_Install: Blast Resistant Metal Doors\Frames NB Cross Passage #5	3	26-Apr-20	28-Apr-20	-345					
STS.08.12.140	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #1	3	26-Apr-20	28-Apr-20	-345					
STS.08.12.150	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #2	3	26-Apr-20	28-Apr-20	-270					
STS.08.12.160	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #3	3	26-Apr-20	28-Apr-20	-345					
STS.08.12.170	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #4	3	26-Apr-20	28-Apr-20	-345					
STS.08.12.180	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #5	3	26-Apr-20	28-Apr-20	-345					
STS.28.20.1750	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Chinatown to North Limits	1	28-Apr-20	28-Apr-20	-240					
STS.34.23.1890	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Chinatown to North Limits	5	23-Apr-20	29-Apr-20	-241					
STS 27 32 10 d2	STS_Review\Approve: Comm: Radio System Calculations & Certifications	15	10-Apr-20	30-Apr-20	207					
STS.08.12.0100	STS_Install: Blast Resistant Metal Doors\Frames NB Cross Passage #1	5	26-Apr-20	30-Apr-20	-308					
STS.08.12.0110	STS_Install: Blast Resistant Metal Doors\Frames NB Cross Passage #2	5	26-Apr-20	30-Apr-20	-272					
STS.08.44.0110	STS_Install: Platform Wind Screens - 4th/Brannan Station	10	17-Apr-20	30-Apr-20	-209					
STS.34.41.2130	STS_Install; Traffic Signal Displays 5th St/Brannan	3	28-Apr-20	30-Apr-20	-252					
STS.28.20.1320	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Chinatown to North Limits	16	09-Apr-20	30-Apr-20	-243					
STS.34.42.2670	CMODATCS Train Control System Approval	47	26-Feb-20	30-Apr-20	-288					
STS.34.42.0690	STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone	1	01-May-20	01-May-20	-248					
STS.34.23.2640	STS_Install: OCS System - Install OCS Trolley Wire In 5th Street To Brannan	6	24-Apr-20	01-May-20	-263					
STS.12.93.3530	STS_Install: Platform Backless Seating - 4th/Brannan Station	5	27-Apr-20	01-May-20	-205					
STS.26.05.2120	STS_Install: Traction Power - Make Fiber Node Connections From UMS Gap Breaker Station @PCC	5	27-Apr-20	01-May-20	-248					
STS.34.42.0490	STS_Install: Train Control - Remote Feed Boxes- NB Portal to Moscone	1	01-May-20	01-May-20	-246					
STS.34.42.0510	STS_Install: Train Control - ATSC Entry Point Signage - Portal	1	01-May-20	01-May-20	-246					
STS.34.01.24.150	STS_: PA/PDS: Operation control Center (34 01 24)	30	30-Jul-18 A	02-May-20	-349					
STS.34.01.24.110	STS_: Testing Cutover: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.120	STS_: System Integration: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.140	STS_: ACT: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.160	STS_: FSS: Operation control Center (34 01 24)	30	06-May-19 A	02-May-20	-349					
STS.34.01.24.170	STS_: CCTV & Access Control: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.180	STS_: Network Communication: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.190	STS_: Traction Power SCADA: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.200	STS_: AV Management: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.210	STS_: Integrated Human Machine Interface (IHMI) System: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.01.24.220	STS_: Elevator/ Escalator Remote Monitoring System: Operation control Center (34 01 24)	30	03-Apr-20	02-May-20	-349					
STS.34.42.1070	STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square	1	04-May-20	04-May-20	-248					
STS.34.41.2110	STS_Install; Traffic Signal Displays 4th St/Brannan	5	19-Jun-17 A	04-May-20	-252					
STS.34.42.0880	STS_Install: Train Control - Remote Feed Boxes- NB Moscone to Union Square	1	04-May-20	04-May-20	-246					
STS.34.42.0900	STS_Install: Train Control - ATSC Entry Point Signage - Moscone Station	1	04-May-20	04-May-20	-246					
STS.34.22.2950	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB16 To SB10 - CTS To UMS	15	14-Apr-20	04-May-20	-259					
STS.34.22.3140	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB16 To SB10 - CTS To UMS	3	30-Apr-20	04-May-20	-251					
STS.34.42.0520	STS_Install: Train Control - NB Switch Machines @ Chinatown Crossover	2	24-Jan-17 A	04-May-20	-244					
STS.34.42.1440	STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown	1	04-May-20	05-May-20	-248					
STS.34.42.0600	STS_Install: Train Control - Train Control Signals - SB Portal to Moscone	3	01-May-20	05-May-20	-266					

**SFMTA Central Subway Project
Master Project Schedule
One Month Back & Remaining Work - February 2020 Update**

**Required Revenue Serive Date 26-Dec-18
Data Date: 26-Feb-20**

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
STS.34.42.1260	STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown	1	05-May-20	05-May-20	-246					STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown
STS.34.42.1270	STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station	1	05-May-20	05-May-20	-246					STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station
STS.34.42.0410	STS_Install: Train Control - Train Control Signals - NB Portal to Moscone	3	01-May-20	05-May-20	-252					STS_Install: Train Control - Train Control Signals - NB Portal to Moscone
STS.34.42.1810	STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits	1	05-May-20	06-May-20	-248					STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits
STS.34.42.2270	STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone	4	20-Mar-17 A	06-May-20	-275					STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone
STS.34.42.2310	STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone	4	20-Mar-17 A	06-May-20	-288					STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone
STS.27.32.1760	STS_Install: Tunnel Electrical - Radiax Cable NB Moscone to Union Square	7	28-Apr-20	06-May-20	-258					STS_Install: Tunnel Electrical - Radiax Cable NB Moscone to Union Square
STS.34.42.0580	STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone	4	13-May-19 A	06-May-20	-272					STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone
STS.34.42.1630	STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits	1	06-May-20	06-May-20	-246					STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits
STS.34.42.1640	STS_Install: Train Control - ATSC Entry Point Signage - Chinatown	1	06-May-20	06-May-20	-246					STS_Install: Train Control - ATSC Entry Point Signage - Chinatown
STS.23.82.0220	STS_Install: HVAC: Jet Fan & Attenuator JF-2 Southbound Tunnel	20	25-Sep-15 A	07-May-20	-246					STS_Install: HVAC: Jet Fan & Attenuator JF-2 Southbound Tunnel
STS 34 42 41 a4	STS_Review/Approve: Transportation: ATCS Testing - Testing & Startup Program	15	17-Apr-20	07-May-20	-247					STS_Review/Approve: Transportation: ATCS Testing - Testing & Startup Program
STS.20.71.210	STS_Prep/Submit: Systems Reliability Analysis - Radio Sub-System - Moscone	20	10-Apr-20	07-May-20	182					STS_Prep/Submit: Systems Reliability Analysis - Radio Sub-System - Moscone
STS.34.42.0710	STS_Install: Train Control - SB ATSC Entry Point Signage - Portal	1	07-May-20	07-May-20	-250					STS_Install: Train Control - SB ATSC Entry Point Signage - Portal
STS.34.41.2010	STS_Install; Traffic Signal Displays 4th S/Bryant	6	07-Jan-19 A	07-May-20	-252					STS_Install; Traffic Signal Displays 4th S/Bryant
STS.34.22.2940	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-8 To PFCB SB16 - CTS So	3	05-May-20	07-May-20	-251					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-8 To PFCB SB16 - CTS So
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Union Square to Chinatown	12	22-Apr-20	07-May-20	-332					STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Union Square to Chinatown
STS.34.42.1060	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Squa	6	01-May-20	08-May-20	-257					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Squa
STS 33 71 73 a12	STS_Manufacture: Utilities: Electrical Service Panel	30	30-Mar-20	08-May-20	-248					STS_Manufacture: Utilities: Electrical Service Panel
STS.34.42.0980	STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square	3	06-May-20	08-May-20	-266					STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square
STS.34.42.1090	STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone	1	08-May-20	08-May-20	-250					STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone
STS.34.22.3130	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-8 To PFCB SB16 - CTS South	1	08-May-20	08-May-20	-251					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-8 To PFCB SB16 - CTS South
STS.34.42.0790	STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square	3	06-May-20	08-May-20	-252					STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square
STS.34.23.2580	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Brannan To Bluxome	9	28-Apr-20	08-May-20	-203					STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Brannan To Bluxome
STS.26.05.2110	STS_Install: Traction Power - Make Fiber Node Connections From CTS Washington Substation @ P	5	04-May-20	08-May-20	-248					STS_Install: Traction Power - Make Fiber Node Connections From CTS Washington Substation @ P
STS.34.42.0480	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to Moscone	6	01-May-20	08-May-20	-261					STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to Moscone
STS 01 80 00 c2	STS_Re-submit: Commissioning Plan & Procedure	20	22-Apr-20	11-May-20	-358					STS_Re-submit: Commissioning Plan & Procedure
STS.34.42.1460	STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square	1	11-May-20	11-May-20	-250					STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square
STS.34.23.2570	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Freelon To Brannan	2	11-May-20	12-May-20	-203					STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Freelon To Brannan
STS.34.22.2930	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB17 To PS-5 - Chinat	2	11-May-20	12-May-20	-251					STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB17 To PS-5 - Chinat
STS.34.42.1820	STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown	1	12-May-20	12-May-20	-250					STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown
STS.34.42.2330	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone	4	07-May-20	12-May-20	-278					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone
STS.34.42.2370	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone	4	07-May-20	12-May-20	-250					STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone
STS.34.22.3120	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB17 To PS-5 - Chinatown	1	13-May-20	13-May-20	-251					STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB17 To PS-5 - Chinatown
STS.34.42.1720	STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown	3	11-May-20	13-May-20	-266					STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown
STS.26.05.1960	STS_Install: Tunnel Electrical - Comm/TC Cable Tray - SB Tunnel Wireduct Interface - South Platfo	5	07-May-20	13-May-20	-274					STS_Install: Tunnel Electrical - Comm/TC Cable Tray - SB Tunnel Wireduct Interface - South Platfo
STS.26.05.2060	STS_Install: Tunnel Electrical - Comm/TC Conduit & Pull Boxes - SB Tunnel Wireduct Interface - @ I	5	07-May-20	13-May-20	-266					STS_Install: Tunnel Electrical - Comm/TC Conduit & Pull Boxes - SB Tunnel Wireduct Interface - @ I
STS.34.42.1170	STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown	3	11-May-20	13-May-20	-252					STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown
STS.34.41.2030	STS_Pull & Terminate Traffic Signal Wiring 4th St	16	24-Apr-17 A	14-May-20	-252					STS_Pull & Terminate Traffic Signal Wiring 4th St
STS 09 90 00 c12	STS_Paint Crossover Passage Doors	10	01-May-20	14-May-20	-214					STS_Paint Crossover Passage Doors
STS.20.71.420	STS_Review/Approve: Systems Reliability Analysis - Radio Sub-System - Chinatown	20	17-Apr-20	14-May-20	197					STS_Review/Approve: Systems Reliability Analysis - Radio Sub-System - Chinatown
STS.20.71.430	STS_Review/Approve: Systems Reliability Analysis - Radio Sub-System - UMS	20	17-Apr-20	14-May-20	197					STS_Review/Approve: Systems Reliability Analysis - Radio Sub-System - UMS
STS.34.23.2560	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Welsh To Freelon	2	13-May-20	14-May-20	-203					STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Welsh To Freelon
STS.34.23.1840	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Chinatown to North Limits	5	08-May-20	14-May-20	-252					STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Chinatown to North Limits
STS.34.42.1540	STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits	1	14-May-20	14-May-20	-252					STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits
STS.26.05.1280	STS_Install: Tunnel Electrical - Unistrut For Conduit & Signal Supports - SB Chinatown to North Limit	7	07-May-20	15-May-20	-261					STS_Install: Tunnel Electrical - Unistrut For Conduit & Signal Supports - SB Chinatown to North Limit
STS 05 52 13 c	STS_Fab/Deliver: Pipe/Tube Railings (05 52 13)	180	04-Sep-14 A	16-May-20	-324					STS_Fab/Deliver: Pipe/Tube Railings (05 52 13)
STS 10 41 00 d1	STS_Prep/Submit: Display Case Mockup	30	17-Apr-20	16-May-20	-338					STS_Prep/Submit: Display Case Mockup
STS.34.42.100	STS_Transportation: Surface Signaling System - Testing & Startup	30	17-Apr-20	16-May-20	-363					STS_Transportation: Surface Signaling System - Testing & Startup
STS 06 10 53 c	STS_Fab/Deliver: Wood Trough (06 10 53)	30	17-Apr-20	16-May-20	-288					STS_Fab/Deliver: Wood Trough (06 10 53)

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
STS 10 14 00 c	STS_Fab\Deliver: Signage (10 14 00)	30	12-Apr-19 A	16-May-20	-338					
STS.34.420.870	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscone to Union Squ	6	11-May-20	18-May-20	-261					
STS.34.42.1800	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square to Chinat	6	08-May-20	18-May-20	-257					
STS.34.42.1350	STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits	1	18-May-20	18-May-20	-256					
STS.34.23.2630	STS_Install: OCS System - Install OCS Trolley Wire In Townsend Street To 5th Street	11	04-May-20	18-May-20	-263					
STS.34.42.2020	STS_Install: Train Control - ATSC Emergency Feed In Device - Moscone Station Control Room	3	14-May-20	18-May-20	-274					
STS.34.42.1430	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Chinatown to North Limi	1	18-May-20	19-May-20	-257					
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS Tr	8	08-May-20	19-May-20	-332					
STS.26.05.2000	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limits	2	18-May-20	19-May-20	-257					
STS.28.20.1810	STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits	2	18-May-20	19-May-20	-256					
STS.28.20.1850	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate SB Chinatown to North Limits	1	20-May-20	20-May-20	-256					
STS.34.23.2550	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Bryant to Welsh	4	15-May-20	20-May-20	-203					
STS.34.23.2650	STS_Install: OCS System - Install OCS Trolley Wire In Brannan To 4th Street	2	19-May-20	20-May-20	-263					
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Por	2	20-May-20	21-May-20	-332					
STS.34.42.2010	STS_Install: Train Control - ATSC Feed In Device - Moscone Station Control Room	3	19-May-20	21-May-20	-274					
STS.34.42.2040	STS_Install: Train Control - ATSC Power Panels - Moscone Station Control Room	3	19-May-20	21-May-20	-274					
STS.26.05.3800	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to l	2	20-May-20	21-May-20	-257					
STS.10.14.3510	STS_Install: Roof Canopy Signage - 4th/Brannan Station	5	18-May-20	22-May-20	-235					
STS.34.42.0960	STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Square	12	07-May-20	22-May-20	-272					
STS.34.42.2260	STS_Install: Train Control - Train Control Conduit - & JB's NB Moscone to Union Square	13	12-Mar-18 A	25-May-20	-275					
STS.34.42.2300	STS_Install: Train Control - Train Control Conduit - & JB's SB Moscone to Union Square	13	12-Mar-18 A	25-May-20	-288					
STS 22 14 00 d1	STS_Prep\Submit: Facility Storm Drainage O&M Data	90	26-Nov-18 A	25-May-20	-316					
STS 34 01 24 a30	STS_Prep\Submit: Operation control Center- Systems Diagrams (34 01 24)	90	26-May-19 A	25-May-20	245					
STS.34.22.2880	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB NB11 - UMS :	2	22-May-20	25-May-20	-332					
STS.34.42.2030	STS_Install: Train Control - ATSC Transformer - Moscone Station Control Room	2	22-May-20	25-May-20	-274					
STS.34.42.1250	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Union Square to Chinat	6	18-May-20	26-May-20	-261					
STS.34.23.3700	STS_Install: OCS System - Remove/Install Cross Spans in Brannan	4	30-Dec-19 A	26-May-20	-263					
STS.26.05.1310	STS_Install: Tunnel Electrical - Telephone Conduit - & JB's SB Chinatown to North Limits	7	18-May-20	26-May-20	-261					
STS.34.42.1620	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Chinatown to North Limi	1	26-May-20	27-May-20	-261					
STS.27.32.1180	STS_Install: Tunnel Electrical - Radiax Cable - & JB's NB Union Square to Chinatown	25	23-Apr-20	27-May-20	-291					
STS.34.42.2520	STS_Install: Train Control - ATSC Wire Pulls & Terminations - Chinatown Station Control Room	15	07-May-20	27-May-20	-261					
STS.26.05.1380	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to North Limits	2	27-May-20	28-May-20	-261					
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890	5	22-May-20	28-May-20	-327					
STS.27.32.1790	STS_Install: Tunnel Electrical - Radiax Cable SB Portal To Moscone	5	25-May-20	29-May-20	-229					
STS.27.32.1360	STS_Install: Tunnel Electrical - Radiax Conduit - & JB's SB Chinatown to North Limits	10	18-May-20	29-May-20	-215					
STS.34.23.3710	STS_Install: OCS System - Remove/Install Cross Spans in Townsend	3	30-Dec-19 A	29-May-20	-263					
CTS 34 23 10 c	CTS_Fab\Deliver: Transportation: Traction Power SCADA System (34 23 10)	180	14-May-14 A	31-May-20	-355					
STS.20.71.515	STS_Prep\Submit: Sub-Systems Maintainability Demonstration - PCC SCADA Equipment	40	22-Apr-20	31-May-20	-353					
STS.20.71.525	STS_Prep\Submit: Sub-Systems Maintainability Demonstration - Surface Signalling Systems	40	22-Apr-20	31-May-20	-353					
STS.20.71.535	STS_Prep\Submit: Sub-Systems Maintainability Demonstration -Facility SCADA Systems (FSS)	40	22-Apr-20	31-May-20	-353					
STS.20.71.575	STS_Prep\Submit: Sub-Systems Maintainability Demonstration - Radio System	40	22-Apr-20	31-May-20	-353					
STS.26.05.3840	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to l	2	29-May-20	01-Jun-20	-261					
STS.23.82.0210	STS_Install: HVAC: Jet Fan & Attenuator JF-1 Northbound Tunnel	20	17-Dec-19 A	03-Jun-20	-266					
STS.34.42.2530	STS_Install: Train Control - ATSC Wire Pulls & Terminations - Union Square Station Control Room	15	14-May-20	03-Jun-20	-266					
STS.20.71.440	STS_Review\Approve: Systems Reliability Analysis - Radio Sub-System - Moscone	20	08-May-20	04-Jun-20	182					
STS.34.22.2890	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11To NB04 - UMS To	8	26-May-20	04-Jun-20	-332					
STS 10 41 00 d2	STS_Review\Approve: Display Case Mockup	15	18-May-20	05-Jun-20	-235					
STS.27.32.1770	STS_Install: Tunnel Electrical - Radiax Cable NB Union Square to Chinatown	7	28-May-20	05-Jun-20	-273					
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS	1	05-Jun-20	05-Jun-20	-332					
STS.10.14.3520	STS_Install: Platform Signage - 4th/Brannan Station	10	25-May-20	05-Jun-20	-235					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
STS.27.32.1800	STS_Install: Tunnel Electrical - Radiax Cable SB Moscone to Union Square	7	01-Jun-20	09-Jun-20	-229					
STS 01 79 00 b2	STS_ReviewApprove Training Program	60	12-Apr-20	10-Jun-20	-349					
STS 01 79 00 c1	STS_Submit: Lesson Plans 60 Days Prior to Training	60	12-Apr-20	10-Jun-20	-349					
STS 01 79 00 c2	STS_Submit:O&M Manuals 60 Days Prior to Training	60	12-Apr-20	10-Jun-20	-349					
STS.34.42.1330	STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North Limits	2	10-Jun-20	11-Jun-20	-272					
STS.34.42.1700	STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chinatown	14	25-May-20	11-Jun-20	-272					
STS.34.42.2340	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Moscone to Union Square	13	26-May-20	11-Jun-20	-287					
STS.34.42.2280	STS_Install: Train Control - Train Control Conduit - & JB's NB Union Square to Chinatown	14	20-Apr-16 A	12-Jun-20	-275					
STS.34.42.2320	STS_Install: Train Control - Train Control Conduit - & JB's SB Union Square to Chinatown	14	21-Apr-16 A	12-Jun-20	-288					
STS.10.41.100	STS_Install: Display Cases Between Windscreens	5	08-Jun-20	12-Jun-20	-235					
STS.01.64.100	STS_Install:Owner Next Bus Signs @ 4th/Brannon Station	5	08-Jun-20	12-Jun-20	-235					
STS 34 01 24 b10	STS_ReviewApprove: Operation control Center- Product Data (34 01 24)	15	04-Apr-18 A	15-Jun-20	175					
STS 34 01 24 b30	STS_ReviewApprove: Operation control Center- Systems Diagrams (34 01 24)	15	26-May-20	15-Jun-20	175					
STS.34.42.2540	STS_Install: Train Control - ATSC Wire Pulls & Terminations - Moscone Station Control Room	15	26-May-20	15-Jun-20	-274					
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS Tc	7	08-Jun-20	16-Jun-20	-332					
STS.34.42.2290	STS_Install: Train Control - Train Control Conduit - & JB's SB Chinatown to North Limits	2	15-Jun-20	16-Jun-20	-277					
STS.34.42.2250	STS_Install: Train Control - Train Control Conduit - & JB's NB Chinatown to North Limits	2	15-Jun-20	16-Jun-20	-275					
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS Sout	1	17-Jun-20	17-Jun-20	-332					
STS.27.32.1780	STS_Install: Tunnel Electrical - Radiax Cable SB Union Square to Chinatown	7	10-Jun-20	18-Jun-20	-229					
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MC	3	18-Jun-20	22-Jun-20	-332					
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS Sour	1	23-Jun-20	23-Jun-20	-332					
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MC	1	24-Jun-20	24-Jun-20	-332					
STS.27.32.1810	STS_Install: Tunnel Electrical - Radiax Cable SB Chinatown to North Limits	5	19-Jun-20	25-Jun-20	-229					
STS.27.32.1550	STS_Install: Tunnel Electrical - Radiax Cable - & JB's NB Chinatown to North Limits	25	28-May-20	01-Jul-20	-291					
STS.34.42.2360	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Union Square to Chinatown	13	15-Jun-20	01-Jul-20	-288					
STS.34.42.2350	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Chinatown to North Limits	2	02-Jul-20	03-Jul-20	-288					
STS.27.32.1740	STS_Install: Tunnel Electrical - Radiax Cable NB Chinatown to North Limits	5	02-Jul-20	08-Jul-20	-291					
STS 01 79 00 d	STS_Provide Training Courses	25	11-Jun-20	15-Jul-20	-243					
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS Tr	15	25-Jun-20	15-Jul-20	-332					
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS	2	16-Jul-20	17-Jul-20	-332					
STS.26.05.0785	STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers NB12 To NB18 - NB Ur	7	06-May-19 A	24-Jul-20	-332					
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS S	2	27-Jul-20	28-Jul-20	-332					
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS Sout	1	29-Jul-20	29-Jul-20	-332					
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To Ulf	3	30-Jul-20	03-Aug-20	-332					
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS Nort	1	04-Aug-20	04-Aug-20	-332					
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - China	2	04-Aug-20	05-Aug-20	-332					
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatowr	1	06-Aug-20	06-Aug-20	-332					
STS.34.42.2390	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Union Square to Chinatown	14	20-Jul-20	06-Aug-20	-312					
STS.34.42.2400	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Chinatown to North Limits	2	07-Aug-20	10-Aug-20	-312					
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	12-Aug-20	-332					
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	13	13-Aug-20	31-Aug-20	-332					
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	14	13-Aug-20	01-Sep-20	-332					
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limits	2	02-Sep-20	03-Sep-20	-332					
Electrical - Transportation		13	26-Feb-20	13-Mar-20	-220					
Trackwork		666	14-Dec-17 A	21-Apr-20	214					
Track System Work		679	06-Jun-16 A	08-May-20	-248					
Startup & Testing		53	04-Sep-20	17-Nov-20	-332					
No 13-Disp		1764	13-Jan-14 A	25-Feb-21	725					
Surface Level		5	11-May-20	15-May-20	-200					
Station Roof Level		126	04-May-20 A	08-May-20	-200					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q1	Q2	Q3	Q4	Q1
Upper Mezz Level		5	12-Oct-20 A	01-May-20	-200					
Lower Mezz Level		81	14-Oct-19 A	24-Apr-20	-200					
Concourse Level		59	05-Aug-19 A	01-May-20	-220					
Intermediate Strut Level		2	19-Oct-20 A	17-Apr-20	-243					
Mezzanine Level		81	18-Oct-19 A	15-Apr-20	-236					
Platform Strut Level		10	04-Oct-19 A	18-Mar-20	-243					
Platform Level		5	27-Sep-19 A	04-Mar-20	-243					
No 13-Level		1764	13-Jan-14 A	25-Feb-21	725					
Project Start Up		302	17-Nov-20	16-Sep-21	-474					
Unallocated Contingency		393	26-Feb-20	15-Sep-21	-326					
Project Management		505	16-Sep-21	30-Aug-23	0					

Appendix C

PROJECT SCOPE AND FUNDING OVERVIEW

Project Overview

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

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

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

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

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



Project Overview - continued

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

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

Funding Overview

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

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

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

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

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

All amounts in millions of dollars

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

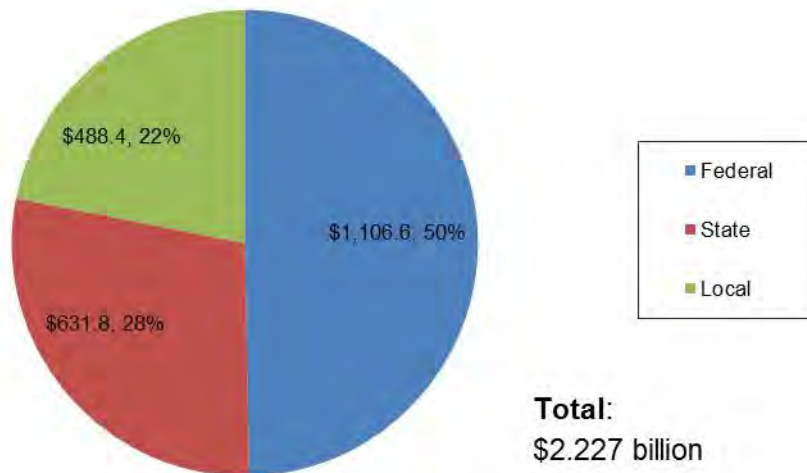
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

Funding Overview - continued

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

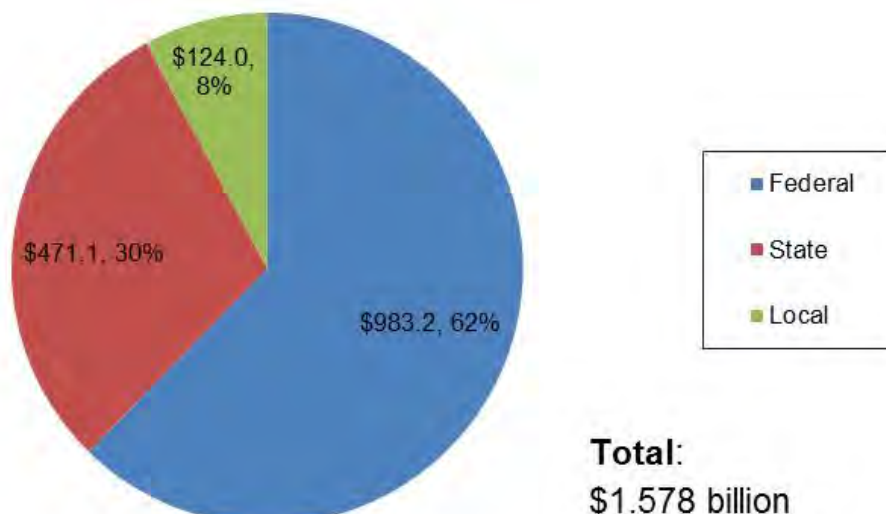
Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2
(\$ in millions)



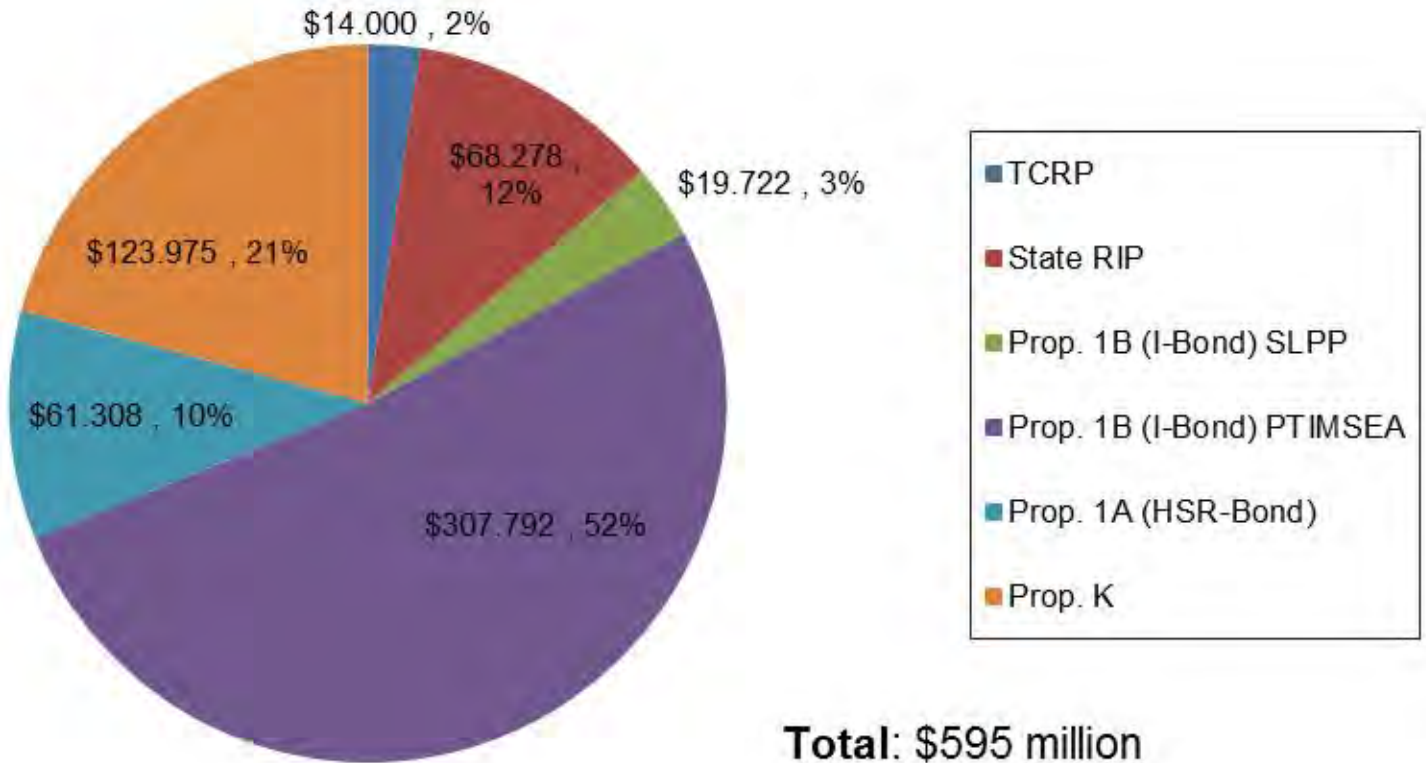
Central Subway Project Funding

Phase 2
(\$ in millions)



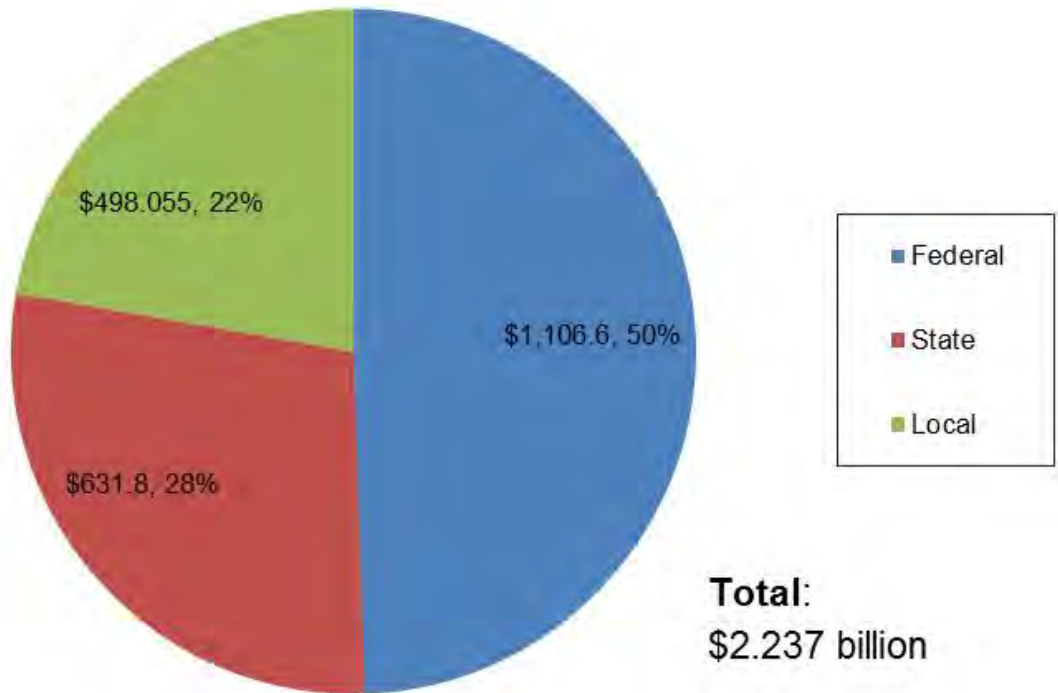
State and Local Funding

Phase 2
(\$ in millions)



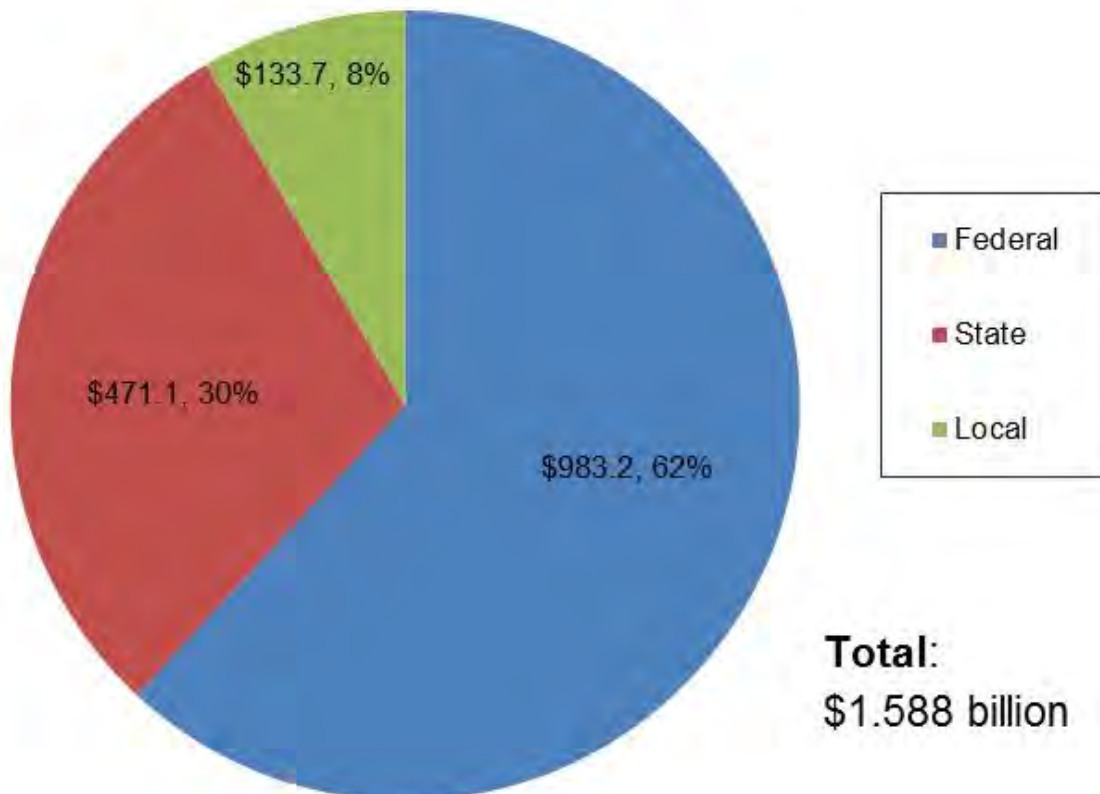
Third Street Light Rail Transit Project Funding

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

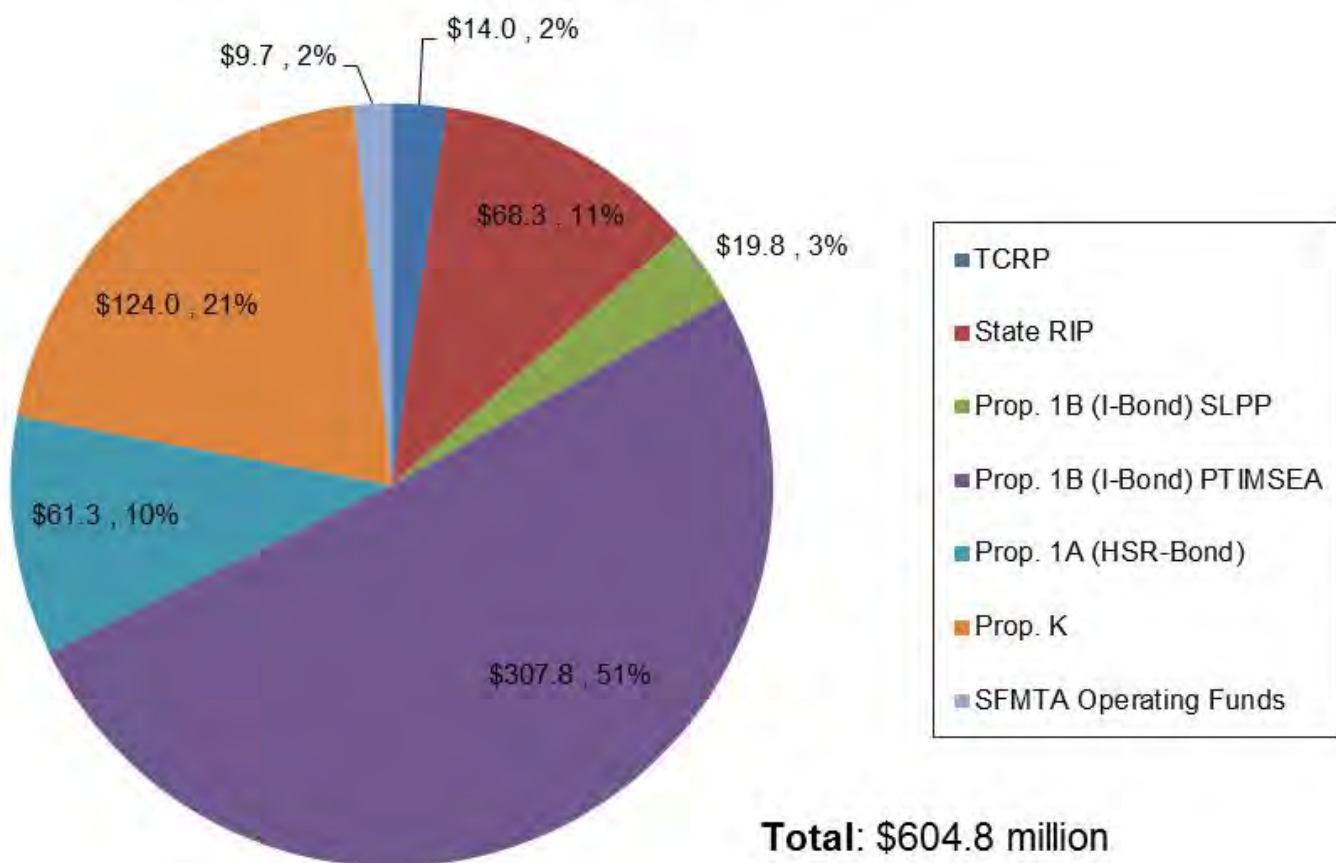


Central Subway Project Funding

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



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



Appendix D

COMPLETED CONTRACTS

Moscone Station and Portal Utility Relocation

Contract 1250

Contractor: Synergy Project Management, Inc.

Budget/Expenditures

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

Contract Details

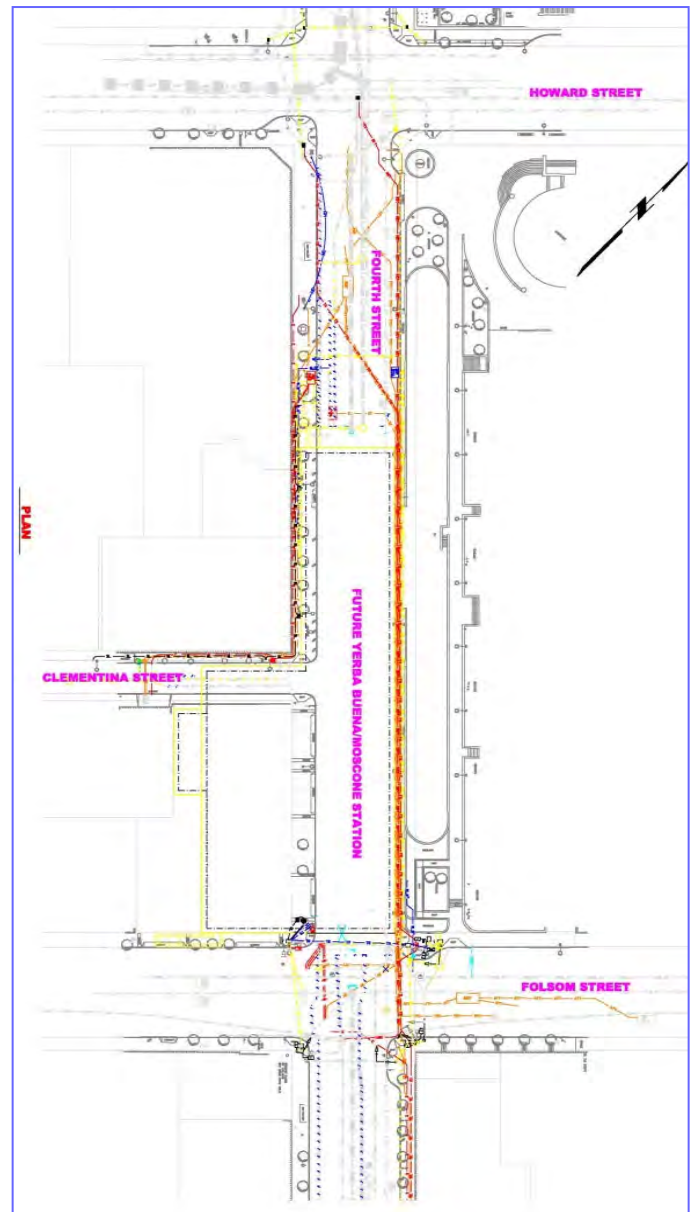
Contract Awarded:	November 17, 2009
Notice to Proceed:	January 4, 2010
Substantial Completion:	June 23, 2011
Contract Award Value:	\$ 9,273,939
Modifications Final :	\$ 2,694,211
Final Contract Value:	\$11,968,150

Status

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

Description

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



Union Square/Market Street Station Utility Relocation

Contract 1251

Contractor: Synergy Project Management, Inc.

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

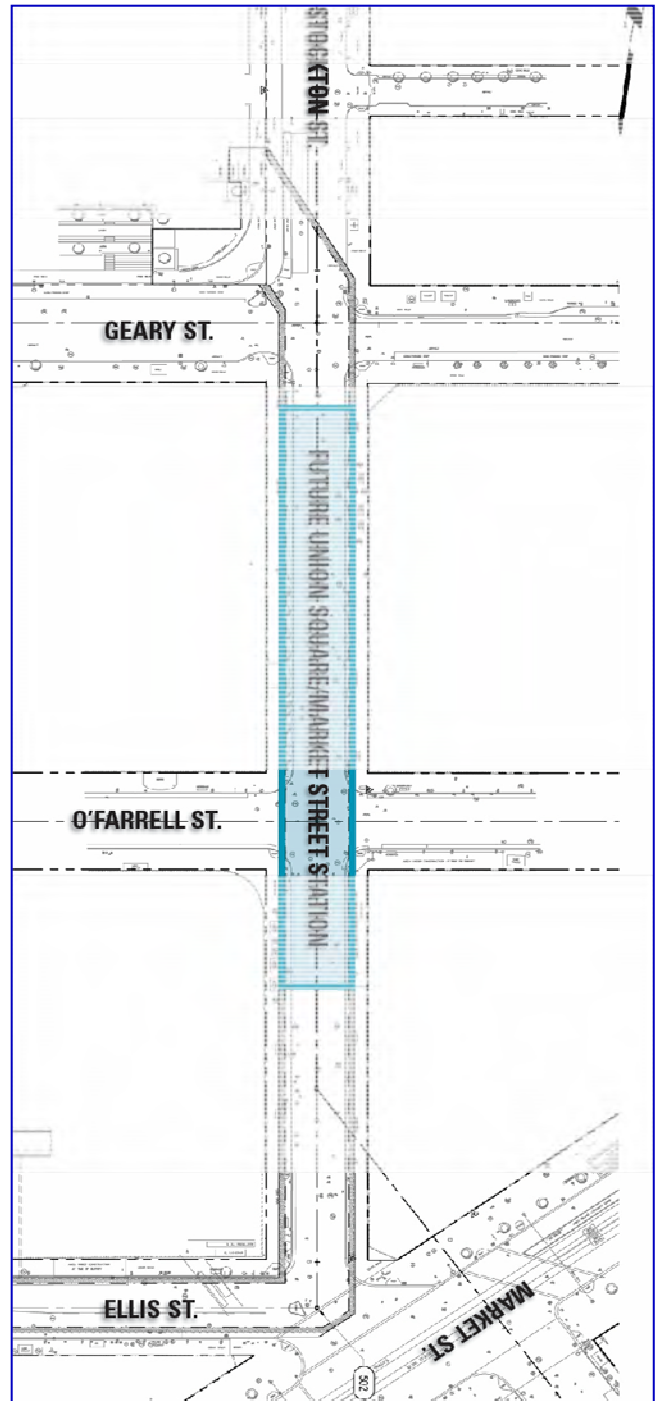
Contract Details	
Contract Awarded:	December 7, 2010
Notice to Proceed:	January 12, 2011
Substantial Completion:	August 16, 2012
Contract Award Value:	\$16,832,550
Modifications Final:	\$3,836,531
Final Contract Value:	\$20,669,081

Status

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

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
Expenditures Final	\$233,511,253

Contract Details	
Contract Awarded:	June 28, 2011
Notice to Proceed 1:	January 27, 2012
Notice to Proceed 2:	March 14, 2012
Partial NTP 3:	April 12, 2012
Notice to Proceed 3:	October 15, 2012
Substantial Completion:	April 15, 2015
Contract Award Value:	\$233,584,015
Modifications to Date:	\$6,389,339
Final Contract Value:	\$239,973,354



Appendix E

SBE PARTICIPATION

Quarterly Report

Current Report: October 2019 – December 2019

PROGRAM SUPPORT CONTRACTS – SBE PARTICIPATION

Appendix E presents the Central Subway Program Small Business Enterprise or SBE goals and the actual SBE participation achieved to date – as of December 31, 2019.¹

CS Program SBE Summary Table for Professional Services and Construction Contracts

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

Appendix E - Monthly Progress Report - Reported Quarterly in 2019
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)	
A Project Professional Services Contracts			millions		millions		millions	millions		
1	149	CS Partnership	Project Management	\$97.72	30%	\$85.75	32.4%	\$29.31	\$27.77	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	\$47.90	30%	\$43.70	31.6%	\$14.37	\$13.81	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$17.23	30%	\$15.99	25.3%	\$5.17	\$4.05	30.0%
Subtotal Professional Services				\$187.90		\$163.46		\$55.69	\$50.97	
B Project Construction Contracts			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	878.92	20%	\$777.16	21.6%	\$175.78	\$167.76	25.5%
Subtotal Construction Contracts				\$1,152.21		\$1,050.45		\$197.36	\$212.01	
Contract	Contractor	Services/Segment	Base Contract	SFMTA Goal	Expenditures	SBE Actual	= A * B	= C * D	Bid Goal	
			A	B	C	D	E	F	G	

SBE Summary Table Notes and Sources:

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

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

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

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

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

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

The source of the SBE Actual percent to date and dollar amounts are Progress Payment

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

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 constructions contracts shown in **bold type, 1250, 1251 and 1277**, with gray background, are completed contracts. Little to no changes will be shown in future reports.
- e) The SBE Hill International Actual to Date SBE participation is 29.3% 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 #73 December 2019, SFMTA SBE FORM No. 6.

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

SBE Participation Details

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

Active Professional Services Contracts - SBE Participation Details

As of: 12/31/2019

Contract:	Project Management and Construction management	
Contract No.	CS-149 Central Subway Partnership*	
Status:	On-going	
	Base Contract Value	\$97,715,988
	Approved Change Orders	-0-
	Current Contract Value	\$97,715,988
	Expended to Date (est.)	88,563,203
	% Expended	90.6%
	SBE SFMTA Goal	30.0%
	SBE Participation	31.7%
Contract:	Project Controls Cost and Schedule Support	
Contract No.	CS 156 Hill International Task 1*	
Status:	On-going	
	Base Contract Value	\$17,112,873
	Approved Change Orders	-0-
	Current Contract Value	\$17,112,873
	Expended to Date (est.)	\$10,115,598
	% Expended	59.1%
	SBE SFMTA Goal	26.0%
	SBE Participation	29.3%
Contract:	Design Package 1 for CNs 1250, 1251 and 1252 Tunnels	
Contract No.	CS-155-1 PB / Telemon*	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$5,795,000
	Approved Change Orders (7)	\$2,145,159
	Current Contract Value	\$7,940,159
	Expended to Date (est.)	\$7,904,713
	% Expended	99.6%
	SBE SFMTA Goal	30.0%
	SBE Participation	30.2%
Contract:	Design Package 2 for 1253 UMS, 1254 CTS, 1255 YBM Stations.	
Contract No.	CS-155-2 Central Subway Design Group*	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$39,949,948
	Approved Change Orders (4)	\$7,950,658
	Current Contract Value	\$47,900,606
	Expended to Date (est.)	\$46,240,867
	% Expended	96.5%
	SBE SFMTA Goal	30.0%
	SBE Participation	30.0%
Contract:	DP 3 Systems, Track work, Surface station.	
Contract No.	CS-155-3 HNTB-B&C*	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$16,864,250
	Approved Change Orders (9)	\$368,002
	Current Contract Value	\$17,232,252
	Expended to Date (est.)	16,658,839
	% Expended	96.7%
	SBE SFMTA Goal	30.0%
	SBE Participation	25.2%

* denotes accrual

Active and Completed Construction Contracts - SBE Participation Details

Data as of: 12/31/2019

Contract:	Synergy Inc Utility Relocation 1 YBM & Launch Box	
Contract No.	1250	
Status:	Contract is completed and closed out	
	Base Contract Value	\$9,273,939
	Approved Change Orders	\$2,694,211
	Final Contract Value	\$11,968,150
	% Expended	100%
	SBE SFMTA Goal	20%
	SBE Participation To Date	97.2%
Contract:	Synergy Inc Utility Relocation 2 UMS	
Contract No.	1251	
Status:	Contract is completed and closed out	
	Base Contract Value	\$16,832,550
	Approved Change Orders	3,836,531
	Final Contract Value	\$20,699,081
	% Expended	100%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	87.4%
Contract:	Pagoda Palace Demolition / MH Construction	
Contract No.	1277	
Status:	Contract is completed and closed out	
	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:	Tunnels Barnard/Impregilo/Haley	
Contract No.	1252	
Status:	Contract is completed and closed out	
	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:	Stations and Systems / Tutor Perini	
Contract No.	1300	
Status:	On-going	
	Base Contract Value	\$839,676,400
	Approved Change Orders	\$48,604,326
	Current Contract Value	\$888,280,726
	Expended to Date (est.)	\$814,071,152
	% Expended	91.6%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	20.0%

Photos on the next page:

(top to bottom) December 2019: At Chinatown Station, initial segments of escalators have been lowered into the Concourse level's future lobby area. Permanent light has been installed across struts above the platform area for Union Square Market Street Station. At Yerba Buena/Moscone Station, steel plates are adjusted for installation at the bottom of the concourse-to-platform escalators. Tracks and the surrounding concrete rail bed have been installed across the 4th and Brannan intersection at Surface, Track, and Systems.

central subway

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Completed	Security Checked	4/6/2020 12:28:43 PM

Payment Events

Status

Timestamps