

central subway

Chinatown Excavation

As the station cavern entrance archway takes shape, temporary steel supports are installed inside the station headhouse.



Progress Report

March 2016



SFMTA
Municipal
Transportation
Agency

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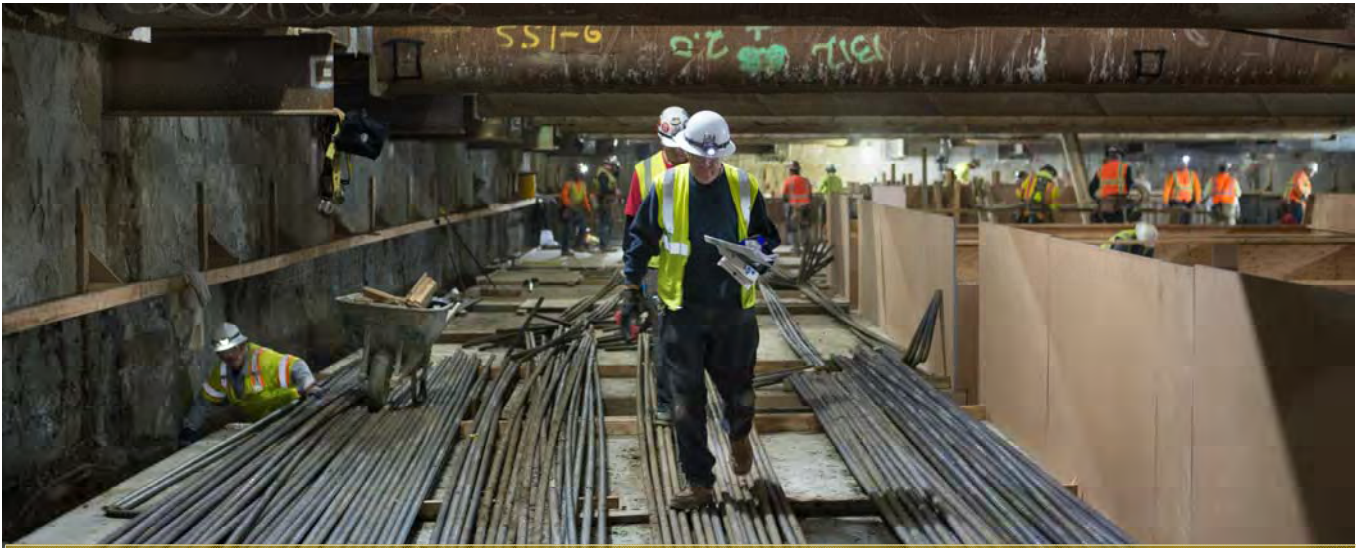
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Cover photo: Recently-installed struts approach the future station cavern entrance archway at the northeast corner of the Chinatown Station headhouse. Temporary steel supports are installed inside the headhouse prior to constructing the final interior walls. The archway shown will eventually become the fare gate area where passengers will enter and exit the station platform area. **More photos can be found starting on page 34.**

Above photos: Looking south down the station box, currently being excavated under Stockton Street between O'Farrell and Geary. This cavern will eventually be excavated almost 100 feet below the surface, and will become the future station platform area where passengers board and depart from waiting trains.

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.centalsubwaysf.com/>



Workers survey rebar strands being installed inside the Yerba Buena/Moscone Station box under 4th Street, where the future station mezzanine and platform will be located.

Executive Summary

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

Chinatown Station - Utility demolition. Headhouse: Install Temp level 4.0 Struts and excavate to Temp level 5.0 Struts. Crosscut Cavern: complete barrel vault piping. Complete water distribution.

Union Square/Market Street Station - Traffic Handling -Stockton Street closure between Geary and Ellis, no southband lane on Stockton between Post and Geary. North Concourse : Continued preconditioning compensation grout pipes. Completed backfill of electrical conduit; chipped beams to expose piles; installed shear studs on the concourse level; Platform Station: Drilled and installed jet grout columns; installed sheet piles for excavation support and performed continued chipping for north head-wall demolition. Excavation for roof deck 5B-11 encountered asbestos pipe and removal began. UMS Garage: Completed demolition of the plaza level; Completed tieback installation; Continue work on shear walls between new ramp and Stockton Street.

Yerba Buena/Moscone Station - Two lanes of traffic flowing on 4th Street with work area closed on east side of the street for installation of water and sewer utilities. Station box level 4 temporary bracing installation is in progress beneath Mezzanine; excavation for Concourse level slab is in progress below level 4 bracing. Temporary bracing is being installed within tunnel to provide support during installation of Concourse level beams and slab. Headhouse level 4 temporary bracing installation has begun. Archaeological monitoring by spot checking is in progress.

Surface, Track and Systems– Continue Muni ductbank installation. Continue 78” sewer rehabilitation. Continue 36” sewer force main. Continue Auxiliary Water Supply System (AWSS) installation. Continue water line work. Continue AT&T cutover. Continue tunnel prep work. Continue OCS pole foundation installation.

Tunnel - Contract administrative closeout is ongoing.

Total project costs to date are \$918.87 million, an increase of \$10.61 million over last month. The total cost to date equals 58.22% of the total project budget of \$1.578 billion. The Master Project Schedule forecast the Revenue Service Date of May 2019.

The Stations Contractors’ Safety Reports show no recordable accidents took place this month and the rates of work site accident incidents by the man hours worked continue to be below industry standards - see tables on page 30.

Key Milestones

Preparing to construct a section of station roof decking at UMS



1 A large vibro-hammer is used to press sections of steel sheet piles into the ground



2 Material is excavated and old utilities are sifted and removed

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



3 Obstructions are demolished and removed ahead of tangent pile work

Costs and Schedule

Costs (See Appendix A for Details)

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

Total net incurred costs for the project are \$918.87 million, a \$10.61 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$877.78 million) plus the utilities joint trench Form B Reimbursement payment (\$10.52 million), invoices currently being processed (\$28.19 million) and estimates of outstanding pay requests (\$2.38 million). This incurred amount equals 58.22% of the total project budget of \$1.578 billion.

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

Earned Value Analysis

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

Preliminary March Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,191,972,303
Earned Value:	\$933,961,694
Actual Cost:	\$918,869,526
Schedule Performance Index (SPI):	0.78
Cost Performance Index (CPI):	1.02
Percent Complete:	59%

Schedule Highlights - Continued

The Master Project Schedule (MPS) below includes progress through March 2016. The March 2016 Schedule Update submittal from Contract 1300 Contractor is rejected due to incorrect schedule logic. The Contract 1300 schedule represented in this report is based on the SFMTA March 2016 Schedule Update. The Program is continuing to working with the CN-1300 Contractor to mutually agree on Actual Dates for work performed.

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

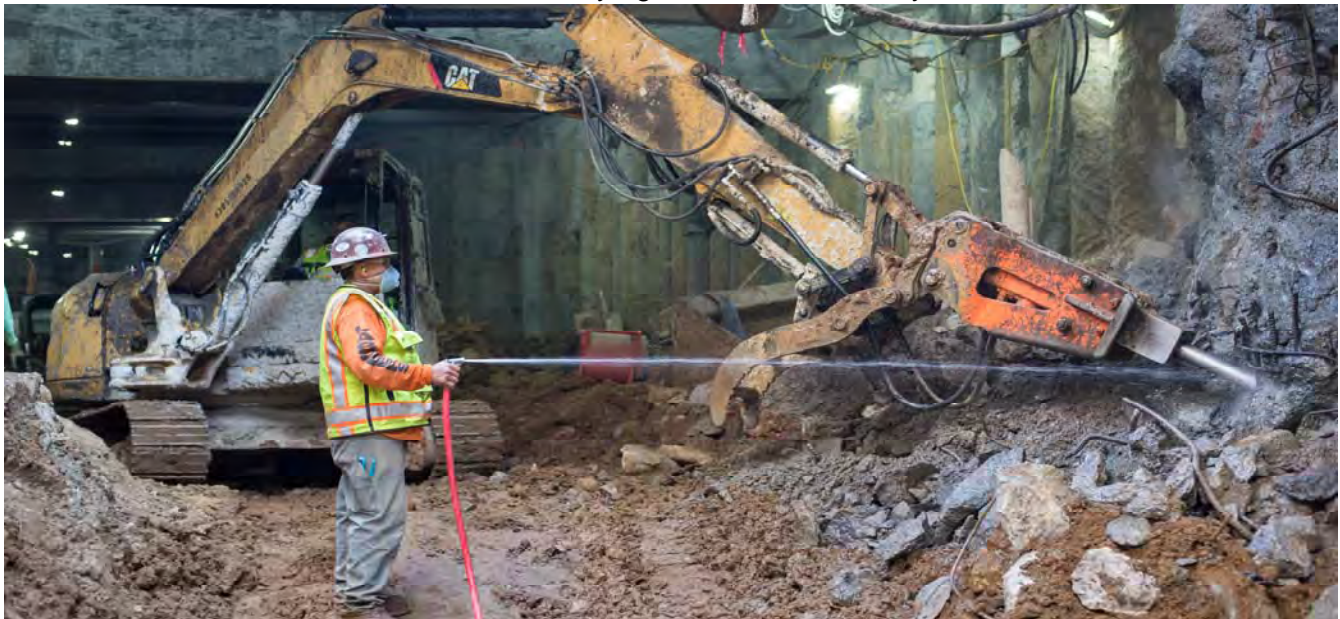
The controlling critical (longest) path of the MPS runs through CTS Excavation succeeded by STS Startup & Testing, Commissioning and Pre-Revenue Activities to the Baseline Finish and Revenue Service Date. See Appendix B – Longest Path. The latest schedule shows the longest path running through the Chinatown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

Schedule Contingency is fully utilized on the critical path of the MPS, which is below the Minimum Schedule Contingency level of 6 months. A schedule re-evaluation will be performed, utilizing the updated Contract 1300 Schedule. Recovery options are being implemented in key areas as work proceeds. SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. The Contractor, Tutor Perini Corporation's (TPC) March 2016 schedule has maintained their projected Substantial Completion Date in their last three schedule updates, but more recovery efforts are required to meet schedule goals.

Contract 1300 Contractor submitted sixteen (16) Schedule Updates from December 2014 to March 2016. SFMTA rejected seven (7) Schedule Updates from September 2015 to March 2016. Contractor has been directed to develop a Recovery Schedule as required by Contract and correct out-of-sequence and Retained Logic driving many of the forecast dates. Review of schedule updates as well as identifying recovery options is ongoing.

Contract 1300 Stations, Surface, Track and Systems

The Contractor, Tutor Perini Corporation's (TPC) baseline schedule is incorporated into the master program. The preliminary SFMTA Contract 1300 March 2016 schedule is used in March Report. The SFMTA Contract 1300 March 2016 schedule is based on the approved baseline schedule logic with adjustments made for fixing Retained Logic and lags. The SFMTA is developing their own Contract 1300 as-built schedule update for the purpose of evaluating time impacts. SFMTA is planning to meet with Contract 1300 Contractor to mutually agree on these monthly as-built schedules as a rec-



To keep dust down during jackhammering work at the north headwall for the Union Square/Market Street Station, a worker sprays a near-constant jet of water.

Schedule Highlights - Continued

ord of actual progress. It will take partnering effort with the Contract 1300 Contractor to validate the prior 32 SFMTA monthly as-built schedules (JUN13 thru FEB16). The SFMTA will continue to use their CN-1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of SFMTA scheduling concerns.

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

- Utility demolition
- Headhouse: Install Temp level 4.0 Struts and excavate to Temp level 5.0 Struts
- Crosscut Cavern: complete barrel vault piping
- Complete water distribution

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

- Traffic Handling – Stockton Street closure between Geary and Ellis, no southbound lane on Stockton between Post and Geary.
- North Concourse: Continued preconditioning compensation grout pipes. Completed backfill of electrical conduit; chipped beams to expose piles; installed shear studs on the concourse level
- Platform Station: Drilled and installed jet grout columns; installed sheet piles for excavation support and performed continued chipping for north headwall demolition. Excavation for roof deck 5B-11 encountered asbestos pipe and removal began
- UMS Garage: Completed demolition of the plaza level; Completed tieback installation; Continue work on shear walls between new ramp and Stockton Street

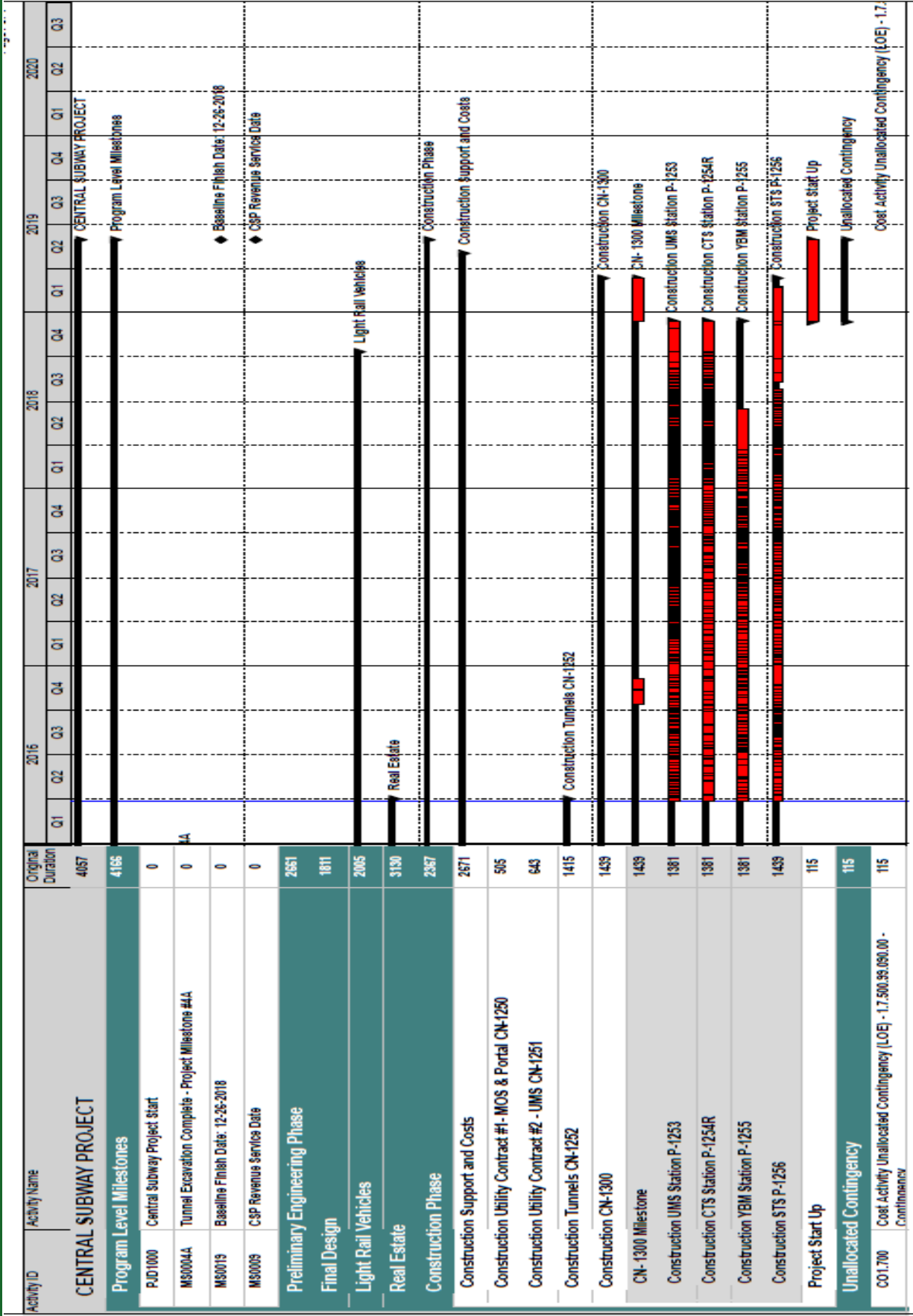
Work Package P-1255 YBM performed the following work this month:

- Two lanes of traffic flowing on 4th Street with work area closed on east side of the street for installation of water and sewer utilities.
- Station box level 4 temporary bracing installation is in progress beneath Mezzanine level; excavation for Concourse level slab is in progress below level 4 bracing.
- Temporary bracing is being installed within tunnel to provide support during installation of Concourse level beams and slab.
- Headhouse level 4 temporary bracing installation has begun.
- Archaeological monitoring by spot checking is in progress

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

- Continue Muni ductbank installation
- Continue 78" sewer rehabilitation
- Continue 36" sewer force main
- Continue Auxiliary Water Supply System (AWSS) installation
- Continue water line work
- Continue AT&T cutover
- Continue tunnel prep work
- Continue OCS pole foundation installation

Master Project Schedule - (December Update)





Workers assemble waterproofing gaskets used in concrete forms for the mezzanine level floor slab inside the Yerba Buena/Moscone Station.

Contracts & Construction

Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$838.65 million
- Contract Status: 44.90% complete construction

Contracts Completed

[See Appendix D](#)

Contract 1250: Moscone Station and Portal Utilities Relocation

Contract 1251: Union Square/Market Street Station Utility Relocation

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

Contract 1252: Central Subway Tunneling

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

Stations, Surface, Track and Systems

Contract 1300 Contractor: Tutor-Perini Corporation

Description of Work

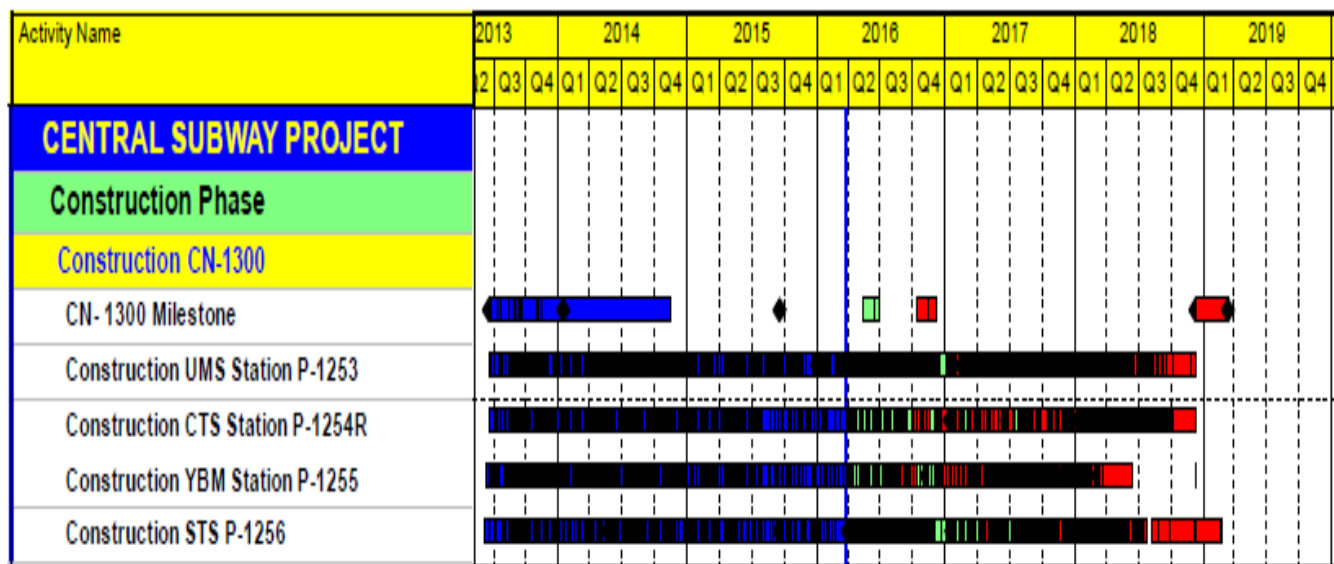
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$839,676,400
Modifications to Date:	\$2,933,000
Current Contract Value :	\$842,609,400

Budget/Expenditures▲	
Current Budget	\$859,601,400
Expenditures to Date	\$362,881,108

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

- Utility demolition
- Headhouse: Install Temp level 4.0 Struts and excavate to Temp level 5.0 Struts
- Crosscut Cavern: complete barrel vault piping
- Install spilling over South Egress Exit
- Complete water distribution

Work Expected Next Month

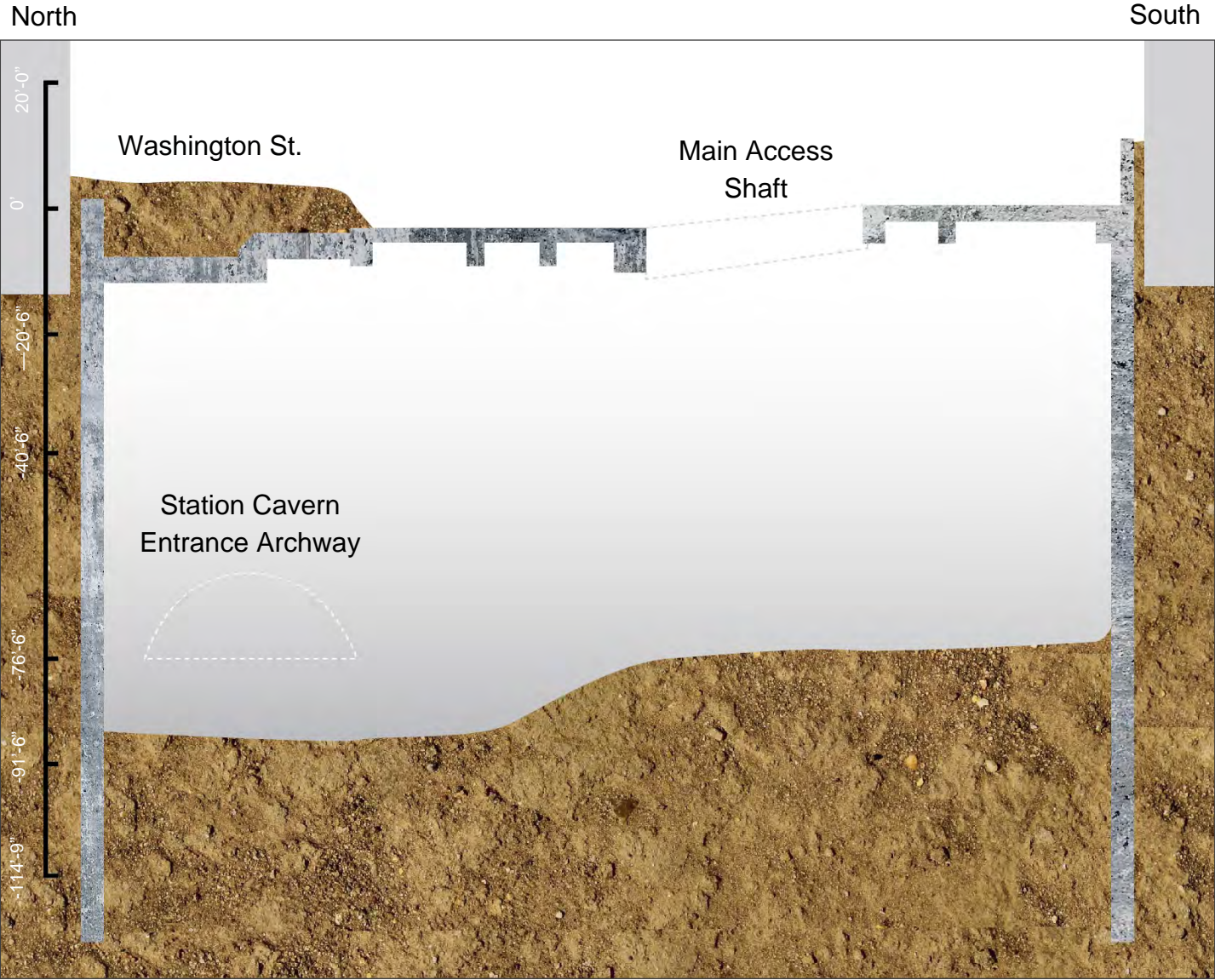
- North Access: Start SEM shaft excavation
- Finish level 4 bracing
- Crosscut Cavern: grout barrel vaults
- Finish service connection to brick sewer Washington Street to Clay Street
- Form and pour, pour 3 of the composite wall
- Brick sewer slip line and connections



Three Month Look Ahead

- Headhouse: Compensation grouting as required
- Crosscut Cavern: break in and construct Top Sidewall Left
- Crosscut Cavern: break in and construct Top Sidewall Right
- Crosscut Cavern: break in and construct Top Center Drift and Headwall

Station Excavation and Construction Progress Section

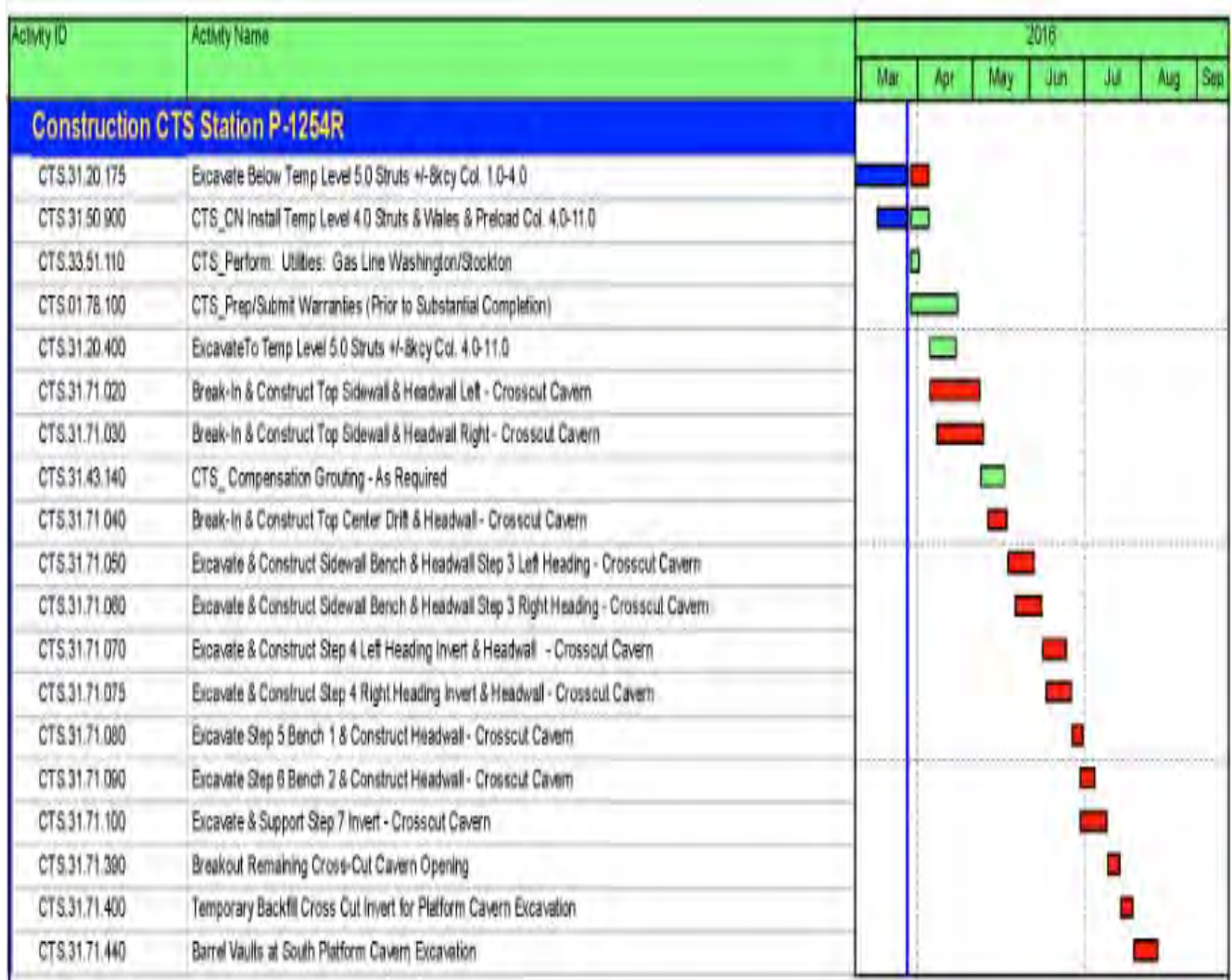


Chinatown Station Construction Status - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$247,567,810
Modifications to Date:	\$2,602,458
Current Contract Value:	\$250,170,268

Budget/Expenditures	
Current Budget	\$252,492,810
Expenditures to Date	\$95,338,520

CTS Three Month Schedule



Schedule: Contract 1300 March 2016 Update

Union Square/Market Street Station

Contract 1300 Work Package 1253

Description of Work

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

Current Status This Month

- Traffic Handling – Stockton Street closure between Geary and Ellis, no southbound lane on Stockton between Post and Geary.
- North Concourse: Continued preconditioning compensation grout pipes. Completed backfill of electrical conduit; chipped beams to expose piles; installed shear studs on the concourse level
- Platform Station: Drilled and installed jet grout columns; installed sheet piles for excavation support and performed continued chipping for north headwall demolition. Excavation for roof deck 5B-11 encountered asbestos pipe and removal began
- UMS Garage: Completed demolition of the plaza level; Completed tieback installation; Continue work on shear walls between new ramp and Stockton Street



- Ellis Annex: Remove and replace seismic joint, water test seismic joint, install waterproofing, grout protection course and light-weight concrete.
- UMS Garage: Continue and complete demolition at Levels 2 and Level 3; commence underpinning work

Work Expected Next Month

- North Concourse: Complete installation of PG&E electric line and cut over one service connection on the east side. Backfill and install paving. Below deck: precondition compensation grout pipes. Chip beams and expose piles. Install shotcrete leveling course.
- Platform Station: Install excavation support for roof deck section 5B-11R. Chip/expose/repair piles, set/weld deck beams, and install steel decking and studs. Continue installing jet grout columns.
- South Concourse: Excavate/grade for concourse invert slab, chip/prep piles for stub beams and vertical drain slot, fine grade/install base and slab drain pipes, form and pour mud slab. Install waterproofing.

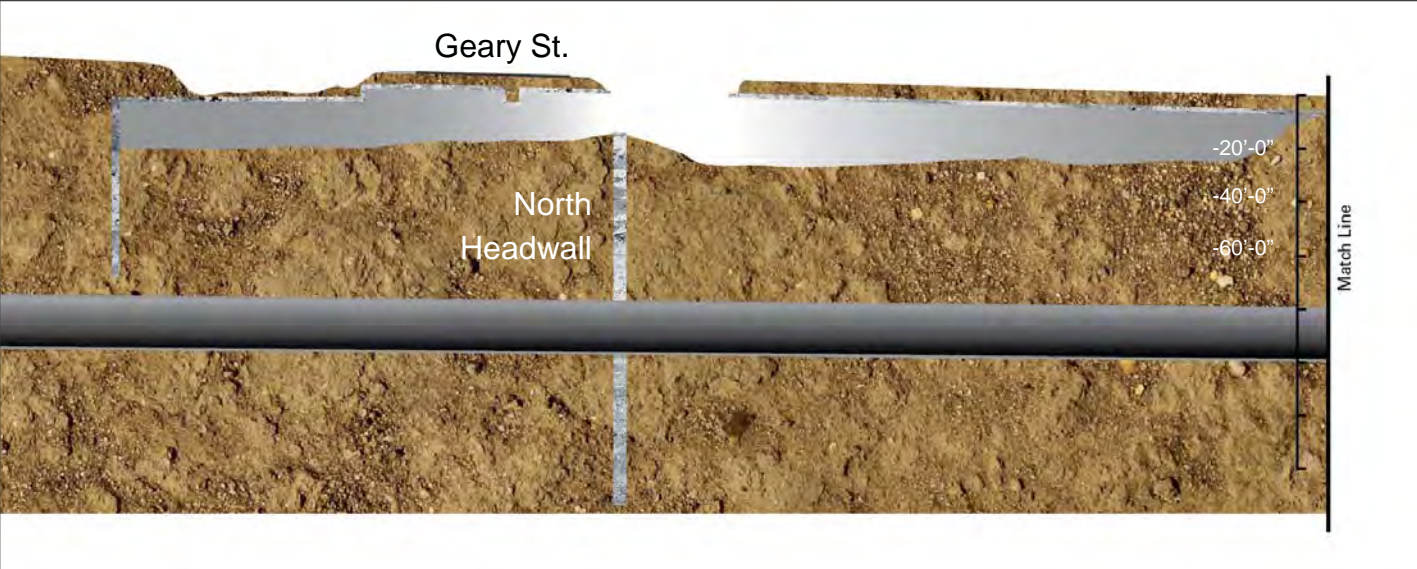
Three Month Look Ahead

- Platform Station: Continue jet grout activities; backfill, install utilities and restore street; dewatering; install permanent wales; excavate bench; install studs, mesh, drain pipe & shotcrete pile walls
- Access Shaft: break through battered piles & frame construction
- North Concourse: Install compensation grout tubing north of Geary; excavate to intermediate strut level, duct chase invert; install W-section piles reinforcement
- Ellis Street: Pave Stockton/Market/Ellis Street & intersection
- UMS Garage: Complete structural demolition; Complete underpinning and foundation work, commence fan level excavation within garage.

Station Excavation and Construction Progress Section

North

South



Union Square Market Street Station Construction - Continued

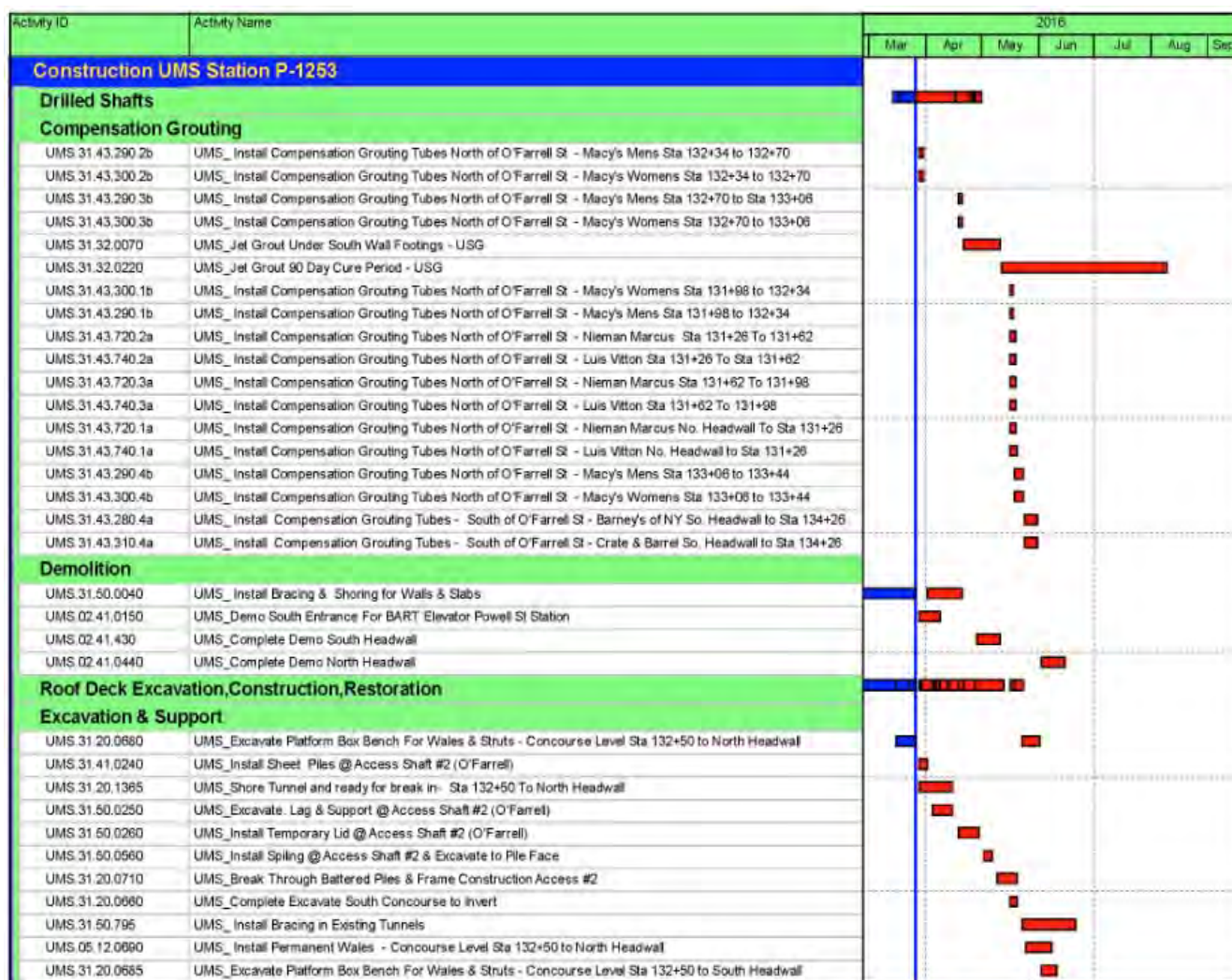
Contract Details

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

Budget/Expenditures ▲

Current Budget	\$299,030,590
Expenditures to Date	\$147,115,198

UMS Three Month Schedule



Schedule: Contract 1300 March 2016 Update

Yerba Buena/Moscone Station

Contract 1300 - Work Package 1255



Description of Work

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

Current Status

- Two lanes of traffic flowing on 4th Street with work area closed on east side of the street for installation of water and sewer utilities.
- Station box level 4 temporary bracing installation is in progress beneath Mezzanine level; excavation for Concourse level slab is in progress below level 4 bracing.
- Temporary bracing is being installed within tunnel to provide support during installation of Concourse level beams and slab.
- Headhouse level 4 temporary bracing installation has begun.
- Archaeological monitoring by spot checking is in progress.

Work Expected Next Month

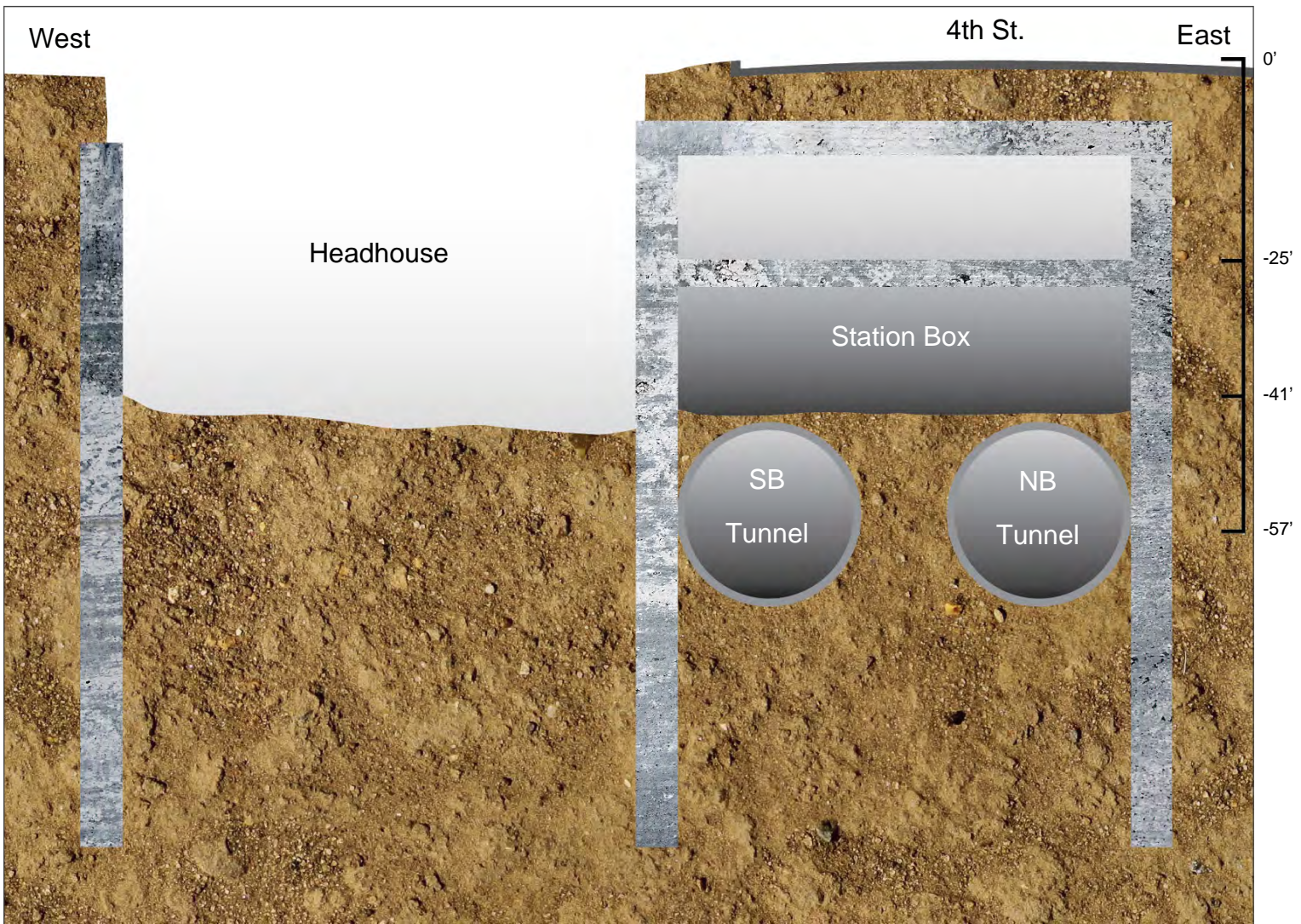
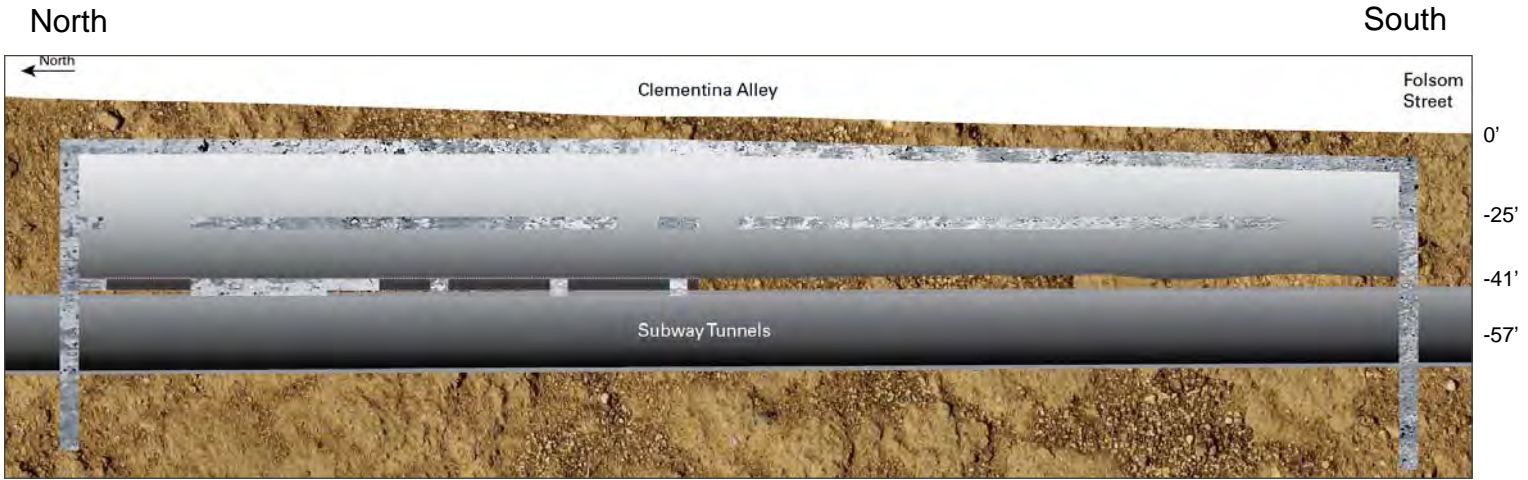
- Continue excavation and temporary bracing installation in headhouse and station box, including excavation to allow Concourse level slab installation
- Concourse level concrete pour 1 of 3
- Install in slab drains Concourse sector 1
- Continue utility installation on 4th Street north of the north headwall and on Folsom Street



Three Month Look Ahead

- Finish Station Concourse Level Slab Pours; Remove Station Level 4 Struts; Excavate station and headhouse to Temp Strut Level 6
- Install in slab drains Concourse sector 2
- Utility installation at intersection of 4th Street with Howard Street and Folsom Streets
- Restore roadway on 4th Street

Station Excavation and Construction Progress Section



Yerba Buena Moscone Station Construction - Continued

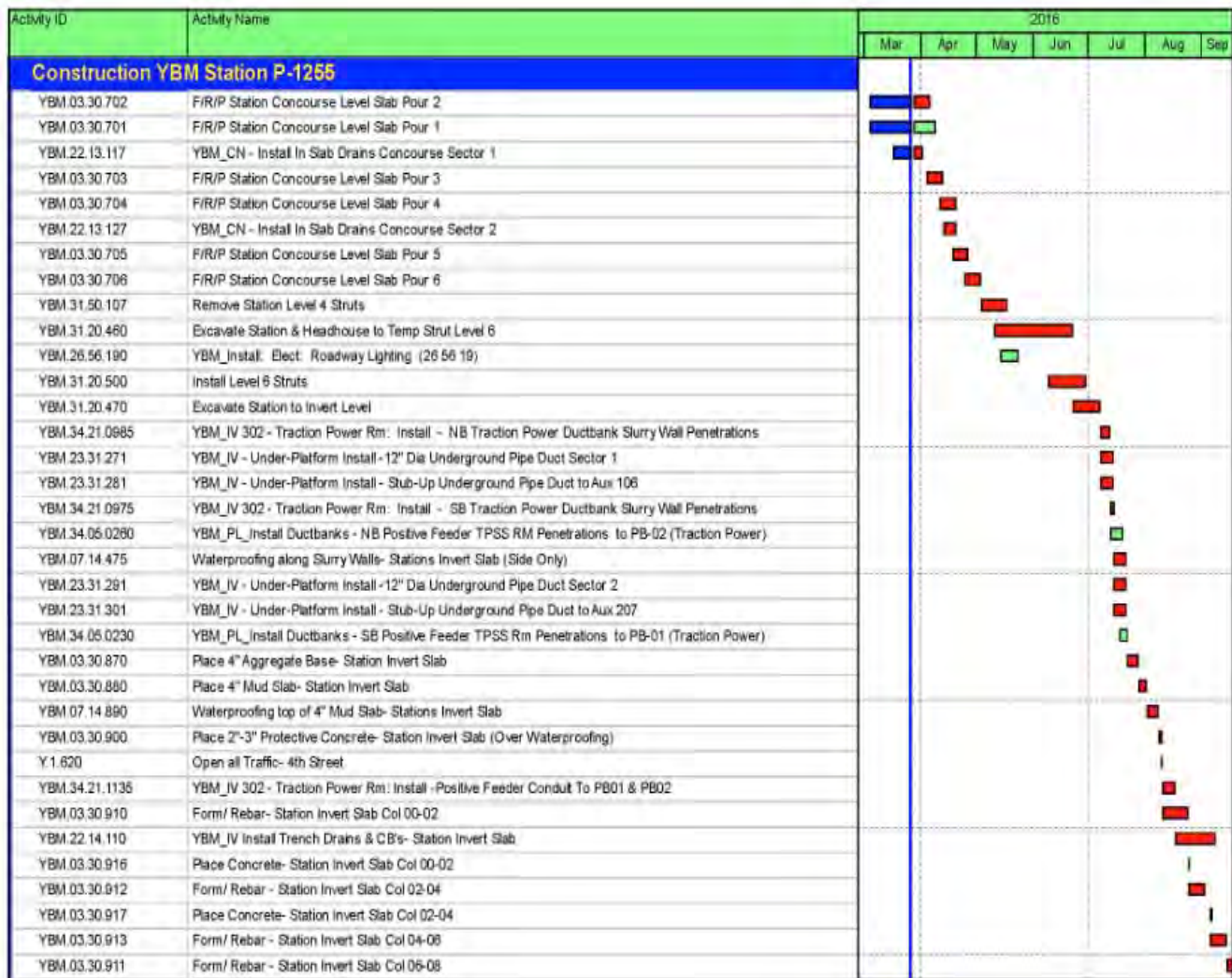
Contract Details

Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$158,089,000
Modifications to Date:	(\$1,216,653)
Current Contract Value:	\$156,872,347

Budget/Expenditures ▲

Current Budget	\$163,089,000
Expenditures to Date	\$82,843,326

YBM Three Month Schedule



Schedule: Contract 1300 March 2016 Update

Systems, Trackwork, & Surface Station

Contract 1300 - Work Package 1256

Description of Work

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

Current Status

- Continue Muni ductbank installation
- Continue 78" sewer rehabilitation
- Continue 36" sewer force main
- Continue Auxiliary Water Supply System (AWSS) installation
- Continue water line work
- Continue AT&T cutover
- Continue tunnel prep work
- Continue OCS pole foundation installation



Work Expected Next Month

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

Three Month Look Ahead

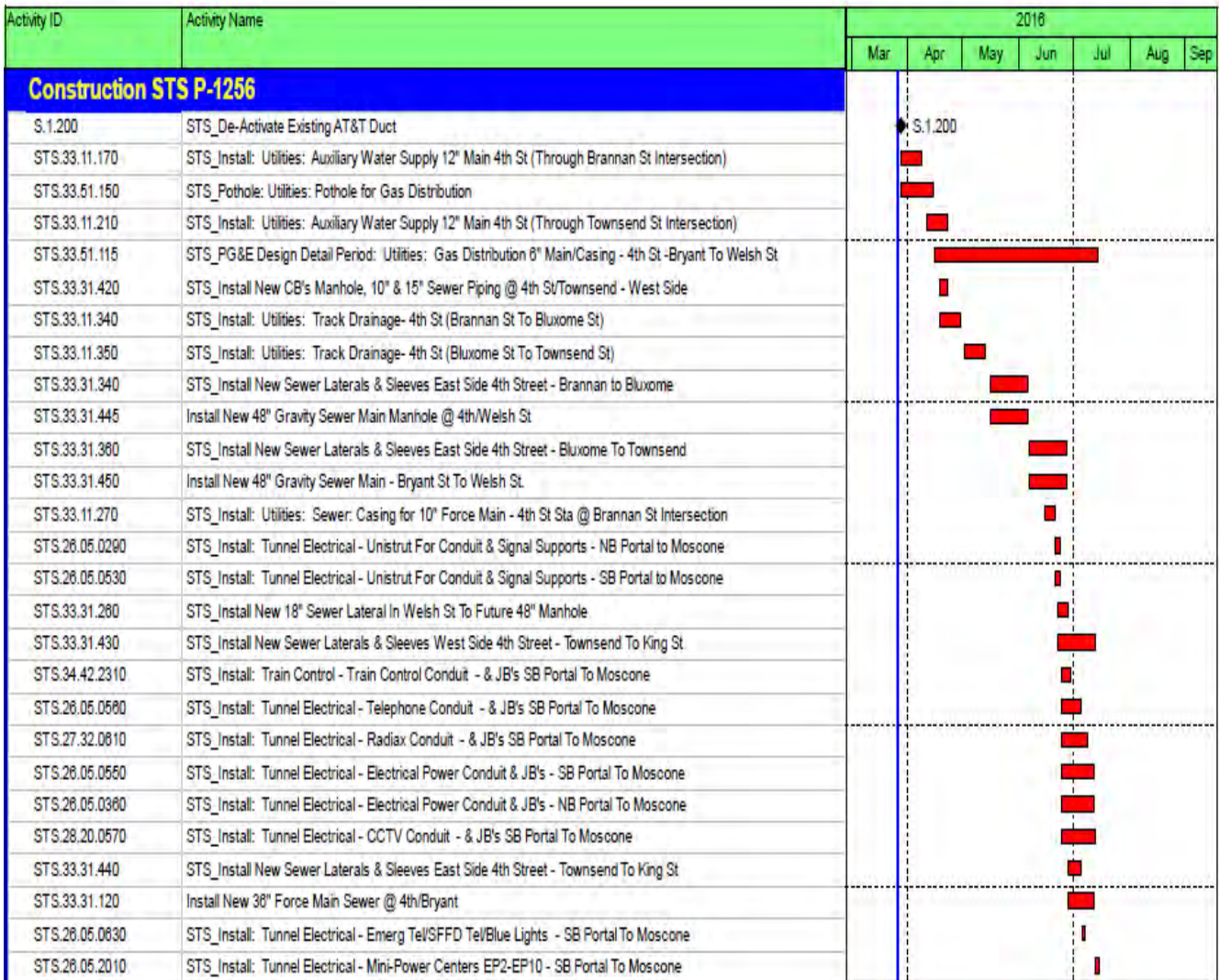
- Waterline installation
- AWSS installation
- Muni ductbank installation and vault installation
- 36" sewer force main installation
- 78" sewer rehabilitation
- OCS pole foundation installation
- Tunnel drainage system installation
- Tunnel invert slab construction
- Tunnel walkway construction

Systems, Trackwork, & Surface Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$139,989,000
Modifications to Date:	\$1,355,901
Current Contract Value:	\$141,344,901

Budget/Expenditures	
Current Budget	\$144,989,000
Expenditures to Date	\$37,584,064

Systems, Track and Surface Station Three Month Schedule



Schedule: Contract 1300 March 2016 Update

Program Components

Community Outreach

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

Follow up on behalf of merchant in Chinatown on illegal dumping

Create new graphic fencing for north access shaft

Addressed STS night noise complain regarding moving of equipment

Outreach in Support of Mitigation and Monitoring

Team members participated in weekly progress and traffic meetings to address neighborhood concerns

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

Weekly photo documentation of project work and editing

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

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

Media Coverage

Central Subway Media Coverage			
Date	Title (with link to story)	Source	Reporter/Writer
3/10/16	Muni T-Third Loop to alleviate overcrowding, simply travel	SF Examiner	Joe Fitzgerald Rodriguez
3/15/16	Bay Area People Central Subway Update	KTVU Fox News	Claudine Wong

Quality Assurance - Continued

Quality Assurance

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

Stations and Systems Contract CN1300 Quality Assurance Monitoring – On Going

- UMS roof beam to pile WF installation – Installation of steel continues.
- UMS and YBM Water Proofing Subcontractor – Waterproofing Experts and substrate and application inspection/acceptance by RDH in lieu of Kingfield Construction Products (water proofing manufacturer) continue.
- TPC QC Daily Inspection Reports (which includes TPC's Specialty Subcontractor's QC checklists and associated documentation and Smith Emery Inspection Reports)
- Smith Emery - TPC's laboratory and Inspection Services – including Special Inspections that are also provided via email to the City of San Francisco's Department of Building Inspection (DBI) for all permitted Work.
- As are reported previously, Preparatory, Initial and Additional Initial Phase Meetings as required by Specification Section 01 45 00, continue. Attendance/participation of these vital meetings (Contractor is not allowed to start work until such time that all prerequisite requirements have been met which continues to greatly facilitates all work being done to the strict requirements of the Contract Documents, the "first time"). Additional initial phase meetings are conducted, at the request of SFMTA for all concrete placements to ensure that all prerequisite requirements have been met.
- Bi-Weekly, and ad hoc Additional Initial Phase Meetings, per 01 45 00 Section 1.09, continue for pre-concrete placement (including CDF and shotcrete), bi-weekly Quality Task Force (QTF) Meetings are attended primarily to assist and support the Contractor's QC effort and to discuss issues related to the identification of in-process items which left un-mitigated manifest into SFMTA not releasing SFMTA Hold Points or requesting clarification of documentation.
- Instrumentation/Monitoring and Construction Management Task Force (CMTF) Meetings (daily at 8:30 am) continue which now include compaction and jet grouting, monitoring of dewatering at CTS, the ongoing compaction grout efforts along Stockton between Ellis and Geary Streets and preparation for the grouting of the Barrel Vaults at CTS.
- Sequential Excavation Method (SEM) Meetings (daily at 7:30 am) are now being held, prior to the CMTF meeting – discussion/concern to date being the start of grouting of the Barrel Vault spilling and who will map the face(s) as the mining progresses.
- Bi-Weekly Quality Task Force Meetings – ongoing dialog regarding identification and mitigation of in-process potentially unsatisfactory work, generation of CNCR and other items related to TPC's QC efforts in implementing TPC's approved Quality Control Program (QCP).
- Weekly Work Package Progress Meetings for STS, YBM, UMS and CTS and RE/PE Progress Meetings for STS, YBM, UMS and CTS when conducted and as time constraints allow.

Quality Assurance - Continued

Document comment and review:

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

QA Issues:

- As reported previously, assurance that all RFIs, submittals and USE-AS-IS and REPAIR dispositioned CNCRs related to a particular concrete placement, have been approved by the SFMTA RE. Practically, SFMTA REs have imposed a concrete placement hold point for all concrete placements to collectively ensure that the Contractor has performed all work to the requirements of the Contract Documents, i.e., all RFIs, CNCRs and submittals have been approved and acceptably executed.

QA Concerns:

- SFMTA's provision of advance notification to TPC/TPC QC, of in-process work that appears to be deficient or of questionable nature.
- On-going necessity of using both Reinforcing Steel Design Drawings and approved Reinforcing Steel Shop Drawings to inspect/accept rebar placement.
- Approved submittals for UMS structural steel are awkward, at best, for TPC Production, TPC QC and RE's QA Inspectors to ensure that all work is performed as required by AWS D1.1 and our Contract Documents. TPC QC Engineers review TPC QC CWI's (Smith Emery provides the TPC QC Inspections) welding inspection documentation to verify that all welds are accounted for and accepted prior to concrete placement (see next item). One, complete and comprehensive submittal continues to be of concern and, as identified by the UMS RE at the Contract Package weekly Progress Meeting, continues to be overdue.
- Welding inspection and associated documentation of CWI acceptance of all welded joints, including tack welding.
- SFMTA CSP Field Notifications at UMS continues as a topic of discussion at the bi-weekly Quality Task Force Meetings.
- De-certification of waterproofing installer, Water Proofing Experts, by Kingfield, waterproofing system manufacturer and documentation (potential lack of) issues associated with the required warranty from the waterproofing manufacturer(s).
- Systems Special Trackwork manufacturing and circuit grounding issues.

Other Program QA Practices Implemented

- Close-out of Corrective Action Requests: Close outs continued from Quality Assurance staff's Audits, Surveillances and PMOC Quarterly Reviews. The status is tracked in the Corrective Action Log that is provided to the project team and the FTA PMOC.
- As report previously, Quality Assurance Surveillance QAS 072, Project Record Documentation

Quality Assurance - Continued

(AS-Builts) was conducted, posted to CM13 and findings provided via letter to TPC for their action regarding discrepancies with the Contract Document requirements. The follow-up Surveillance was conducted and the associated report will be completed and posted to CM 13 mid-April 2016.

- Quality Assurance Audit QAA 026, Implementation of TPC's Quality Control Program (QCP) is being conducted.



Risk Management

Risk Mitigation Management Meeting No. 80 was held on March 3, 2016. The Risk Assessment Committee reviewed and discussed Risks that include Construction Risks with ratings above 6; Remaining Requirement and Design Risks; and, any New Risk Assessment and Mitigations identified to date.

Program Safety & Security

Program Safety & Security

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

Project Management/Construction Management (PMCM) Team

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

Safety Summary for the 1300 Stations Systems Track Construction Package

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

STS had no recordable or first aid incidents. They are preparing to start work in the tunnel laying the invert. Drain pipes and rebar will be installed first. Then, concrete will be poured. All workers that will be in the tunnels have been “tunnel trained”.

At YBM, no injuries or incidents occurred. The contractor has started to pour the lower level of the station. Good ventilation exists.

UMS had one injury during March. A worker was using a hand held grinder. He set it down while it was still running and then leaned up against it. It cut him. He had stitches and then returned to work. No lost time. As for work in the station, the contractor prepared and started to pour the platform for the station.

CTS had one first aid injury. A worker in the hole stepped on a nail. It was imbedded in a piece of wood that was buried by mud and muck. The worker was taken to the clinic and then returned to work. No lost time. The contractor continued to ready the site for “turning under” and starting the excavation process.

Program Safety & Security - continued

Table 1300 Stations Construction Safety Record

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

Next Month Look Ahead

1300 Contract

1. AT CTS, Frontier-Kemper (FK) will be starting the excavation the last week of April. FK is working on noise issues for the area. There will be watched closely.
2. At UMS, work on the station roof continues. More excavation is starting under the finished areas.
3. AT YBM, we will continue to watch the concrete placement on the platform level in the station.
4. At STS, work has started in the tunnels. First, drain lines will be installed followed by tying rebar for the invert. Once that is completed, concrete placement will take place.

Program Safety & Security - continued

Project Safety Record - Contract 1300

SAFETY GOALS

Through Month End - Mar 2016

OSHA Recordable Accidents, <3.4 Lost Time Cases, <1.6
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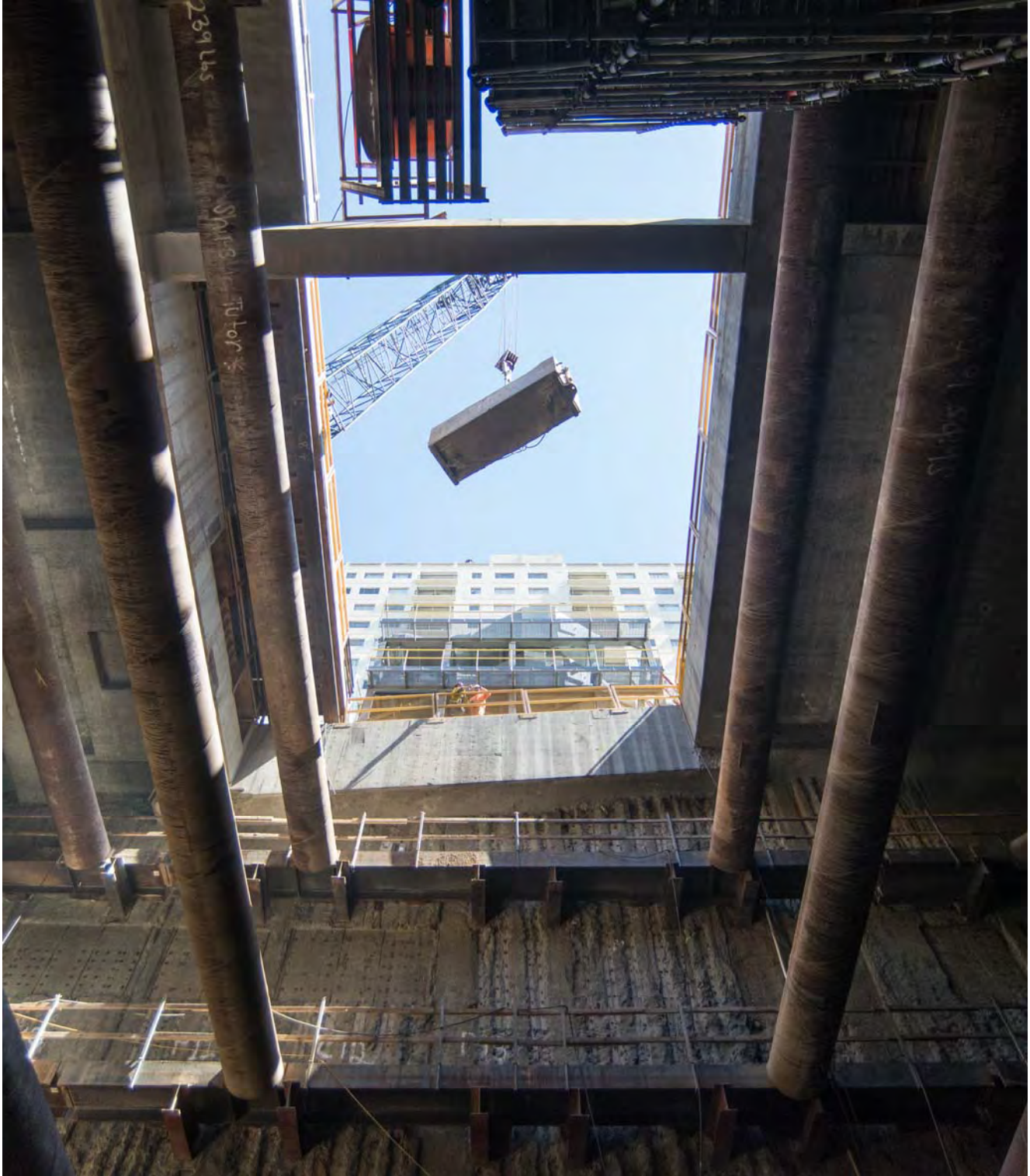
JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	4	0	4	0.78
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	4	0	4	0.78
Man Hours Worked Through M/E Mar 2016	481,385	542,616	1,024,001	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	1	0	1	1.38
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	1	0	1	1.38
Man Hours Worked Through M/E Mar 2016	79,670	65,770	145,440	

* 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

Technical Capacity

No Project positions are currently open or unfilled.



A steel bucket used to remove excavated soil is slowly lowered down the main access shaft.

Staffing

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

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

Third-Party Agreements

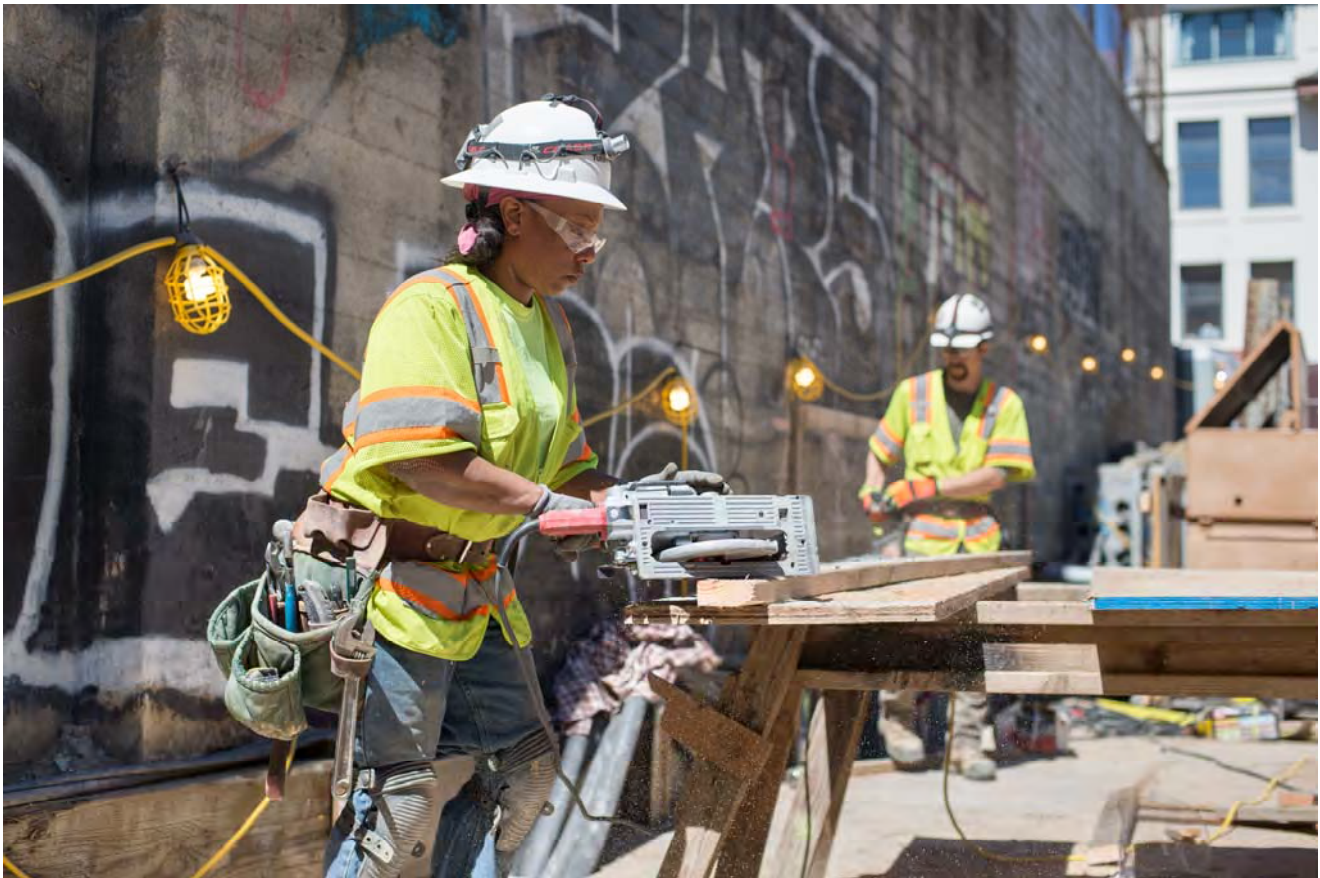
No activity in this reporting month.

LRV Procurement

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

The fifth Design review meeting was completed this month. Prototype testing for selected systems such as doors, propulsion and HVAC is underway.

LRV Procurement contract working through integration challenges with parallel projects such as radio replacement project and fare box replacement project. Production of the first carbody structure is underway and the frame of the first carshell is approaching completion.



Carpenters build railings and stairs for workers to move around the site easier. As work progresses, occasional changes need to be made to the site layout.

central **T** subway

Current Construction Activity



Chinatown (CTS)



Union Square/Market Street (UMS)



Yerba Buena/Moscone (YBM)



4th St. Surface Track, Systems (STS)



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



A large drilling machine is being used to conduct soil improvement work at the entrance archway for the future station cavern.



Two workers look over long steel I-beams, to be installed on brackets jutting from the slurry walls inside the station headhouse.



Light streams in the main access shaft for the Chinatown Station headhouse. Temporary steel reinforcing lays waiting to be installed.



A crew is preparing to pour concrete for the construction of a structural slab inside the north access shaft for Chinatown Station.

UMS



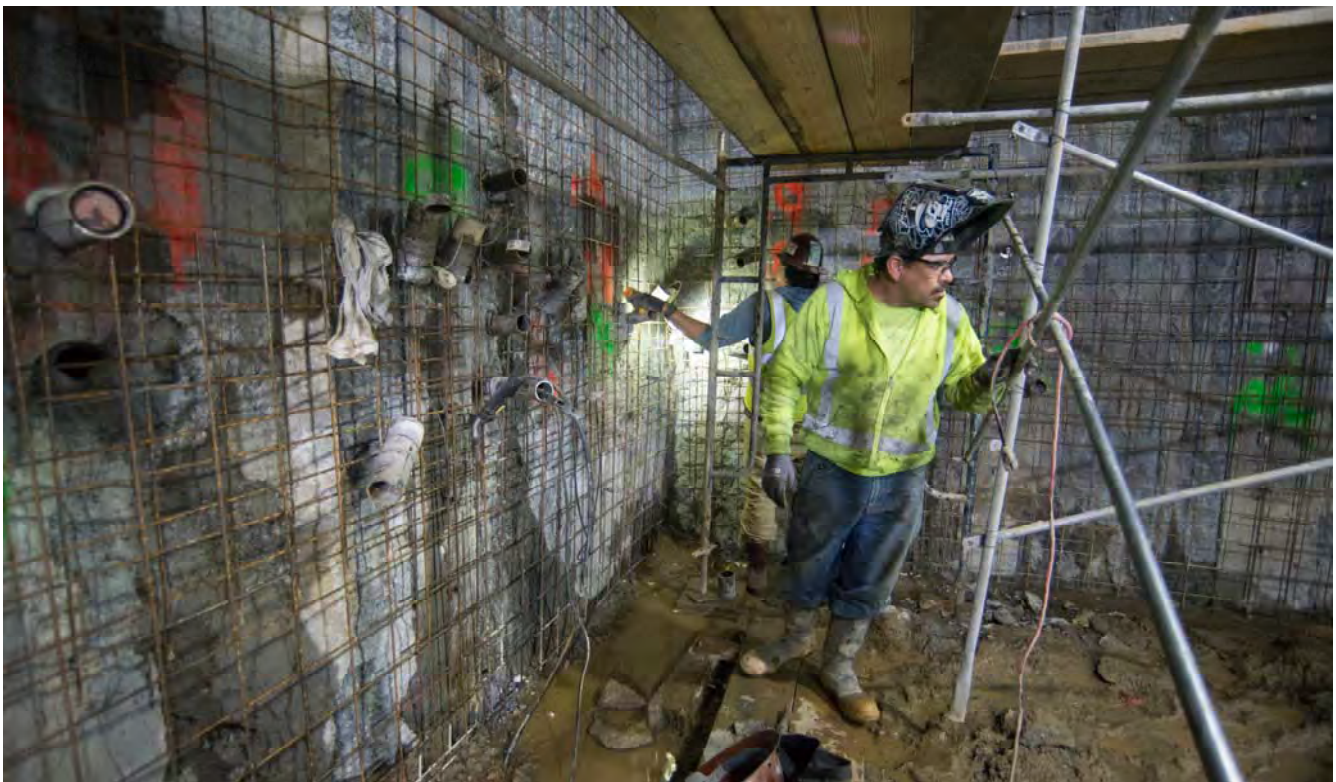
Workers are carefully removing floors and columns in a small area at the southeast corner of the Union Square Garage, where the future north station entrance will be located.



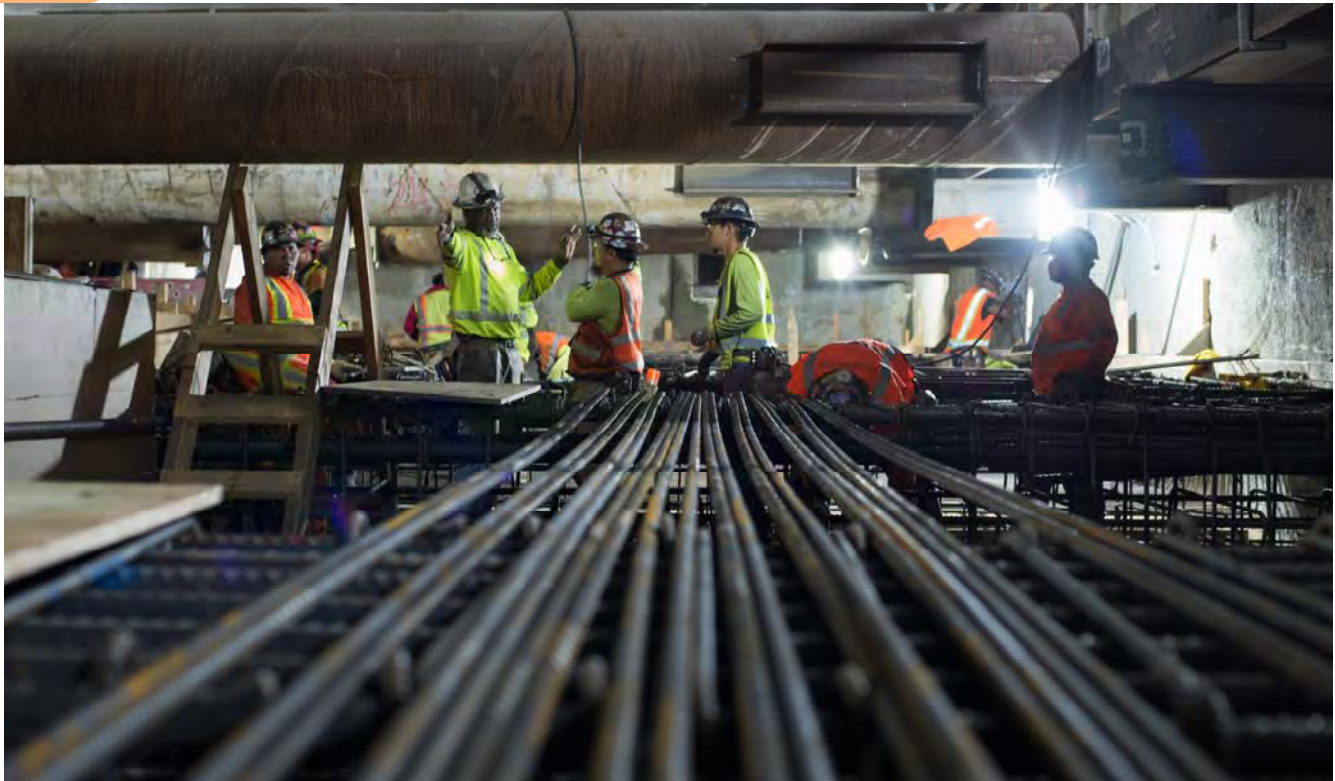
Men observe a large utility box unearthed north of O'Farrell, which will be demolished and removed to allow for site excavation and the installation of a new section of station roof deck.



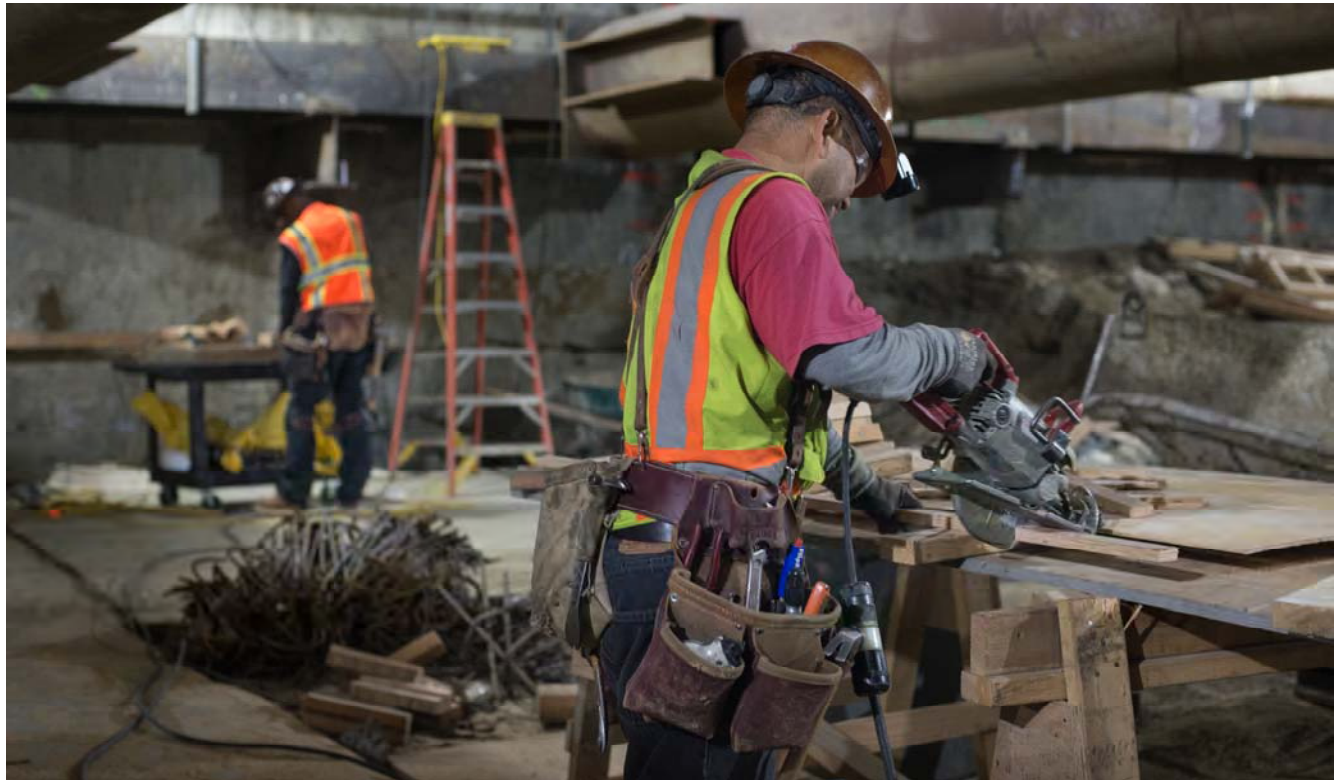
Work to excavate out the station box under Stockton between O'Farrell and Geary has begun.



Workers inspect shafts drilled for jet grouting, while installing steel mesh prior to erecting concrete forms.



This rebar will reinforce the concrete slab separating the future mezzanine level and station platform level.

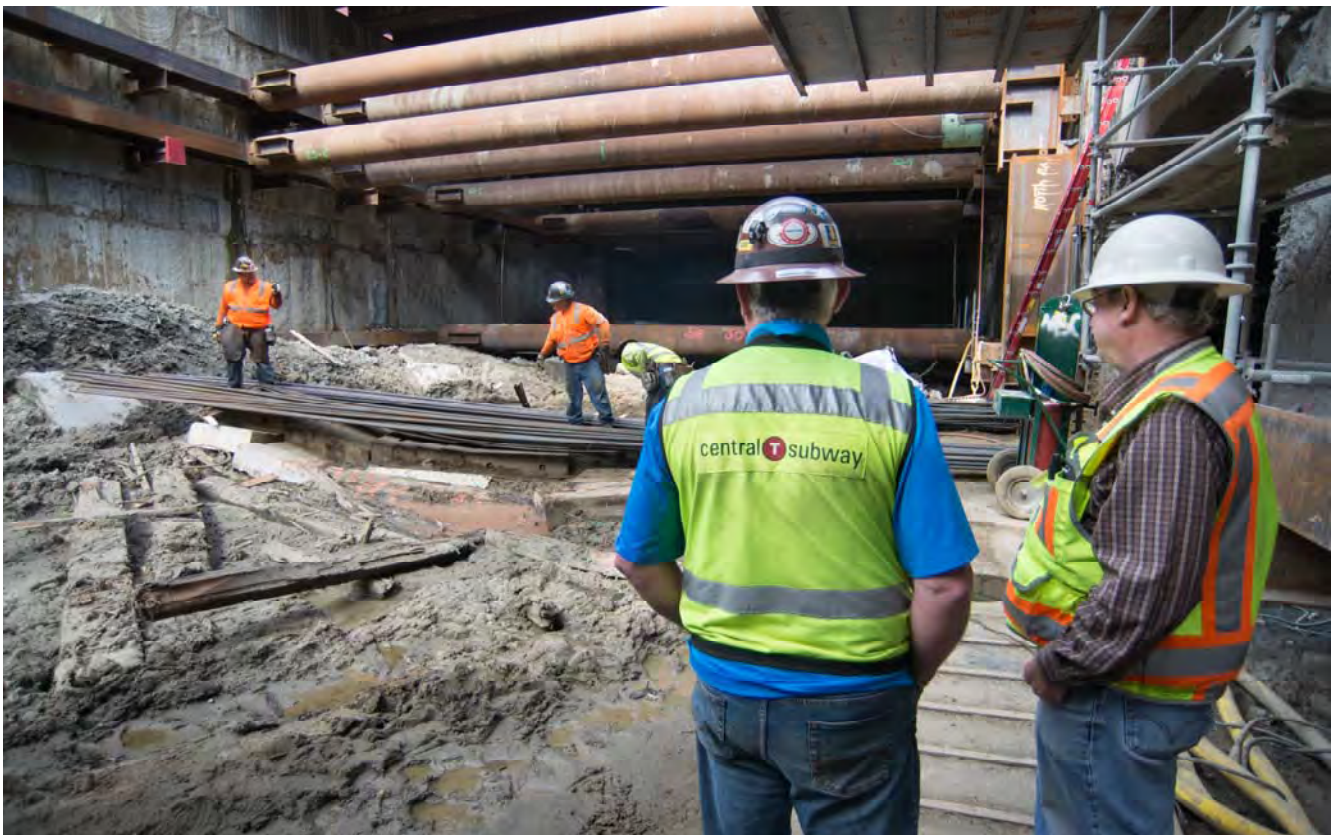


A carpenter saws wood to be used in concrete forms during construction of the mezzanine level floor slab.

YBM - continued



Temporary steel supports span across the headhouse site, while most of the work has recently been focused inside the station box.

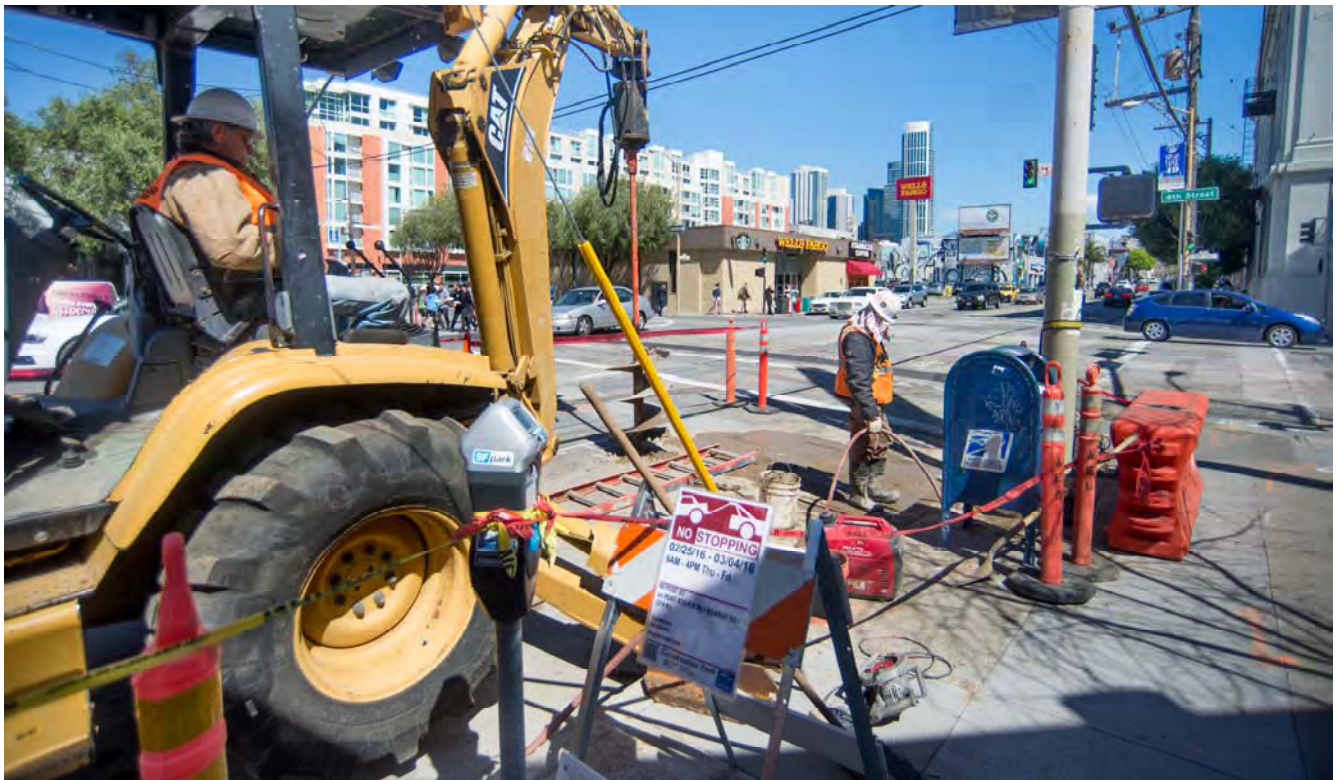


Inspectors supervise work to organize rebar in the station headhouse. This rebar will become part of the future station box mezzanine level floor slab.

STS



Equipment is checked and prepared prior to resuming work on a trench near Freelon and 4th.



A backhoe fitted with an auger waits for a jackhammer operator to finish work to remove obstructions before excavating for an overhead catenary pole foundation.

STS—Continued



Just north of Townsend, a completed and backfilled section of utility trench gets covered in new asphalt.



Existing utilities are exposed during the installation of a force main sewer pipe just north of Townsend on 4th.

Appendix A

DETAIL COST REPORTS

1. PROJECT COST

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

Total net incurred costs for the project are \$918.87 million, a \$10.61 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$877.78 million) plus the utilities joint trench Form B Reimbursement payment (\$10.52 million), invoices currently being processed (\$28.19 million) and estimates of outstanding pay requests (\$2.38 million). This incurred amount equals 58.22% of the total project budget of \$1.578 billion.

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

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

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.2*	70	12/31/2015	\$ 240,756.00
CS155.2*	71	1/31/2016	\$ 172,443.00
CS155.2*	72	2/29/2016	\$ 192,843.00
CS155.2*	73	3/31/2016	\$ 216,550.00
CS155.3	64	7/31/2015	\$ 46,704.85
CS155.3	65	8/31/2015	\$ 38,423.13
CS155.3*	66	9/30/2015	\$ 81,258.00
CS155.3*	67	10/31/2015	\$ 68,106.00
CS155.3*	68	11/30/2015	\$ 190,717.00
CS155.3*	69	12/31/2015	\$ 87,013.00
CS155.3*	70	1/31/2016	\$ 79,274.32
CS155.3*	71	2/29/2016	\$ 66,208.92
CS155.3*	72	3/31/2016	\$ 114,932.19
Contract 1252	39	4/30/2015	\$ 1,174,889.06
Contract 1252	40	5/31/2015	\$ 236,920.00
Contract 1300*	26	2/29/2016	\$ 13,022,920.00
Contract 1300*	27	3/31/2016	\$ 9,513,400.00
CS149*	83	12/31/2015	\$ 500,000.00
CS149*	84	1/31/2016	\$ 500,000.00
CS149*	85	2/29/2016	\$ 500,000.00
CS149*	86	3/31/2016	\$ 500,000.00
CS156.1*	60	1/31/2016	\$ 69,532.98
CS156.1*	61	2/29/2016	\$ 68,879.96
CS156.1*	62	3/31/2016	\$ 80,887.66
other accruals*		3/31/2016	\$ 1,908,718.55

* Estimated Amount

\$ 30,572,736.76

2. CONTINGENCY ALLOCATIONS AND USAGE

The current Total Project Contingency is **\$80.15 million**, which is a \$20.15 million favorable balance against the current Minimum Contingency level of \$60 million. The Contingency Drawdown Curve is shown in Report 7.3. Follows by Report 7.4 Contingency Management Trend Report with the Remaining Contingency after Approved Changes Deducted contingency items in column "i".

In this reporting period, Contract 1252 Tunnel processed five contract modifications. Three contract modifications in the amount of \$221,966 reported in CN1252. Other two contract modifications in the amount of \$155,468, are funded by Other Project Offset Credits, details shown in Report #1. Contract 1300 Station processed five contract modifications in the amount of \$2,737,044. Refer to Report 7.5 for approved contract modifications and potential changes.

3. BUDGET TRANSFERS

In this reporting period, there were two Budget Transfers for increase \$230,956 program unallocated contingency from two Construction Contracts Project Offset Credits, refer to Report 7.6 for details.

4. FORM B

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

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

5. EARNED VALUE (EV) ANALYSIS

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

Preliminary March Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,191,972,303
Earned Value:	\$933,961,694
Actual Cost:	\$918,869,526
Schedule Performance Index (SPI):	0.78
Cost Performance Index (CPI):	1.02
Percent Complete:	59%

SFMTA, EV Chart											
MARCH 31, 2016 Update											
ID: CSEP-CMPS-YY-20-..., Proj Name: 3-SFMTA Central											
Subway Project - March 2016 Update CN 1252...											
Layout: AA 01 MPR EV CHART											
03/26/16, 04/20/16, 19:30											
Activity ID	Activity Name	Start	Finish	Performance % Complete	Budgeted Total Cost	Planned Value Cost (PV)	Earned Value Cost (EV)	Actual Value Cost (AC)	CPV	SPV	Approved
CENTRAL SUBWAY PROJECT											
	Preliminary Engineering Phase	06/03/03A	06/02/21	59.12%	1,578,300,000.56	1,191,972,302.67	833,861,694.25	918,869,525.98	1.02	0.78	
	Final Design	06/03/03A	01/07/10A	100%	46,542,061.02	46,542,061.02	46,542,061.02	46,542,061.02	1.00	1.00	
	Light Rail Vehicles	01/08/10A	08/17/13A	100%	115,075,987.08	115,075,987.08	115,075,987.08	114,307,464.86	1.01	1.00	
	Real Estate	04/15/13A	10/10/18	8.25%	28,385,653.00	5,537,636.83	2,177,131.58	2,147,204.00	1.01	0.39	
	Construction Phase	08/01/08A	03/31/16	80.31%	37,405,895.00	32,552,122.00	30,041,759.18	30,540,100.64	0.98	0.92	
	Construction Support and Costs	01/03/10A	05/02/19	55.04%	1,328,140,481.48	692,264,436.36	740,124,755.44	725,332,895.66	1.02	0.75	
	Construction Utility Contract #1- MOS & Portal CN-12	01/03/10A	05/02/19	43.57%	199,882,949.06	89,467,504.52	87,086,391.71	94,807,458.66	0.92	0.97	
	Construction Utility Contract #2 - LIMS CN-1251	01/04/10A	06/23/11A	100%	11,968,150.00	11,968,150.00	11,968,150.00	11,968,150.00	1.00	1.00	
	Construction Tunnels CN-1250	01/12/11A	10/15/12A	100%	20,794,582.00	20,794,582.00	20,794,582.00	20,794,582.00	1.00	1.00	
	Construction CN-1300	06/08/11A	04/01/16	93.05%	238,913,500.00	251,068,878.40	233,608,894.28	234,881,397.00	0.99	0.93	
	Unallocated Contingency	06/03/13A	03/11/19	44.8%	859,601,400.42	618,664,521.44	388,666,737.44	362,881,103.00	1.07	0.62	
	Project Management	12/11/18	05/29/19	0%	24,749,923.00	0.00	0.00	0.00	0.00	0.00	
		05/29/19	08/02/21	0%	0.00	0.00	0.00	0.00	0.00	0.00	

The preliminary Contract 1300 cost shows Earned Value Cost \$24M higher than Actual Cost.

Earned Value Analysis and Definitions

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

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

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

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

6. FUNDING SUMMARY

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

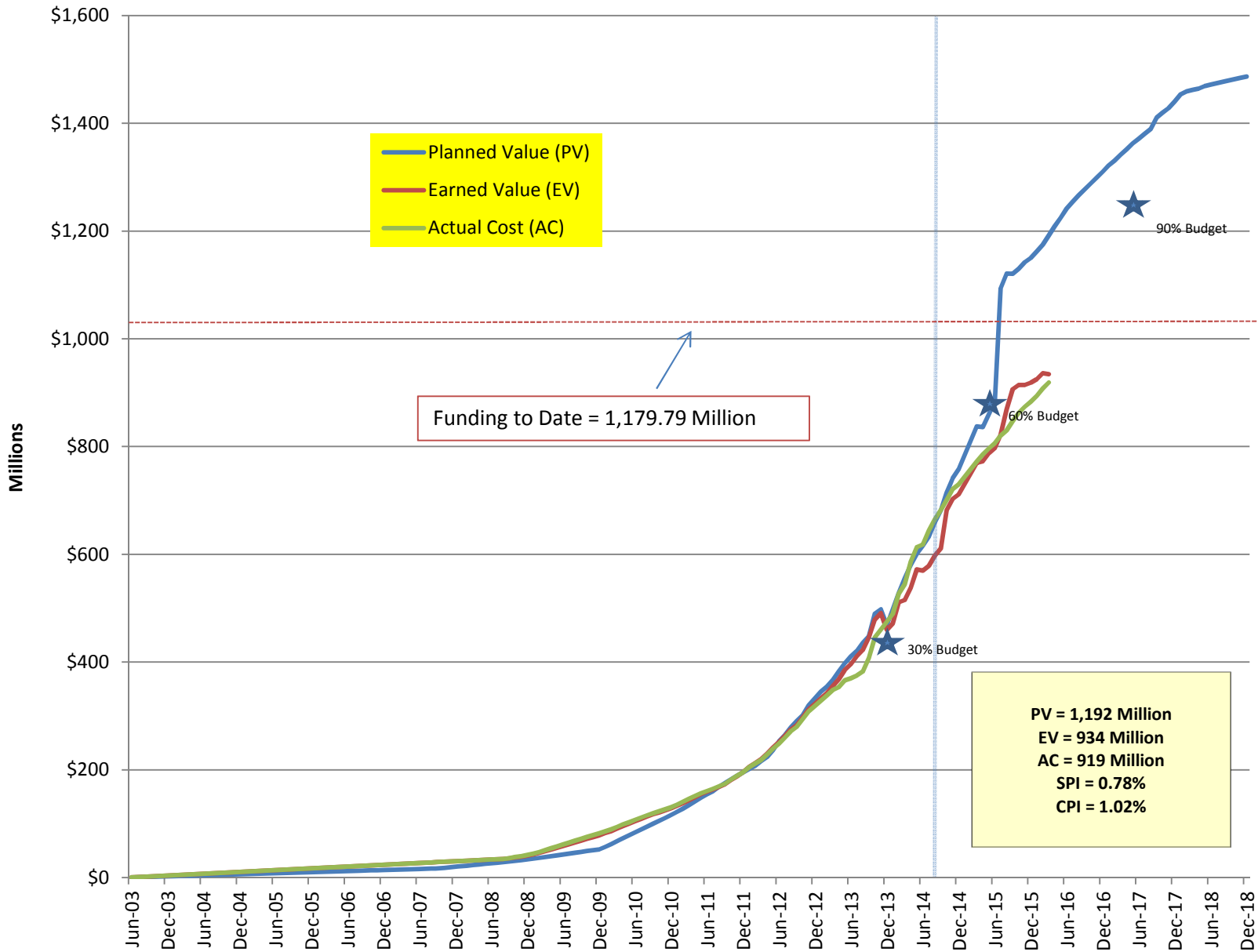
Funding Available Table		
	Funding	
	Committed Funding Sources	Total Awarded Funds to Date
Federal		
Sect. 5309-NS	\$942,200	\$619,196
CMAQ	\$41,025	\$41,025
Federal Subtotal	\$983,225	\$660,221
State		
TCRP	\$14,000	\$14,000
State RIP	\$88,000	\$12,498
Prop. 1B (I-Bond) PTIMSE	\$307,792	\$307,792
Prop.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

7. LIST OF COST REPORTS

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

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

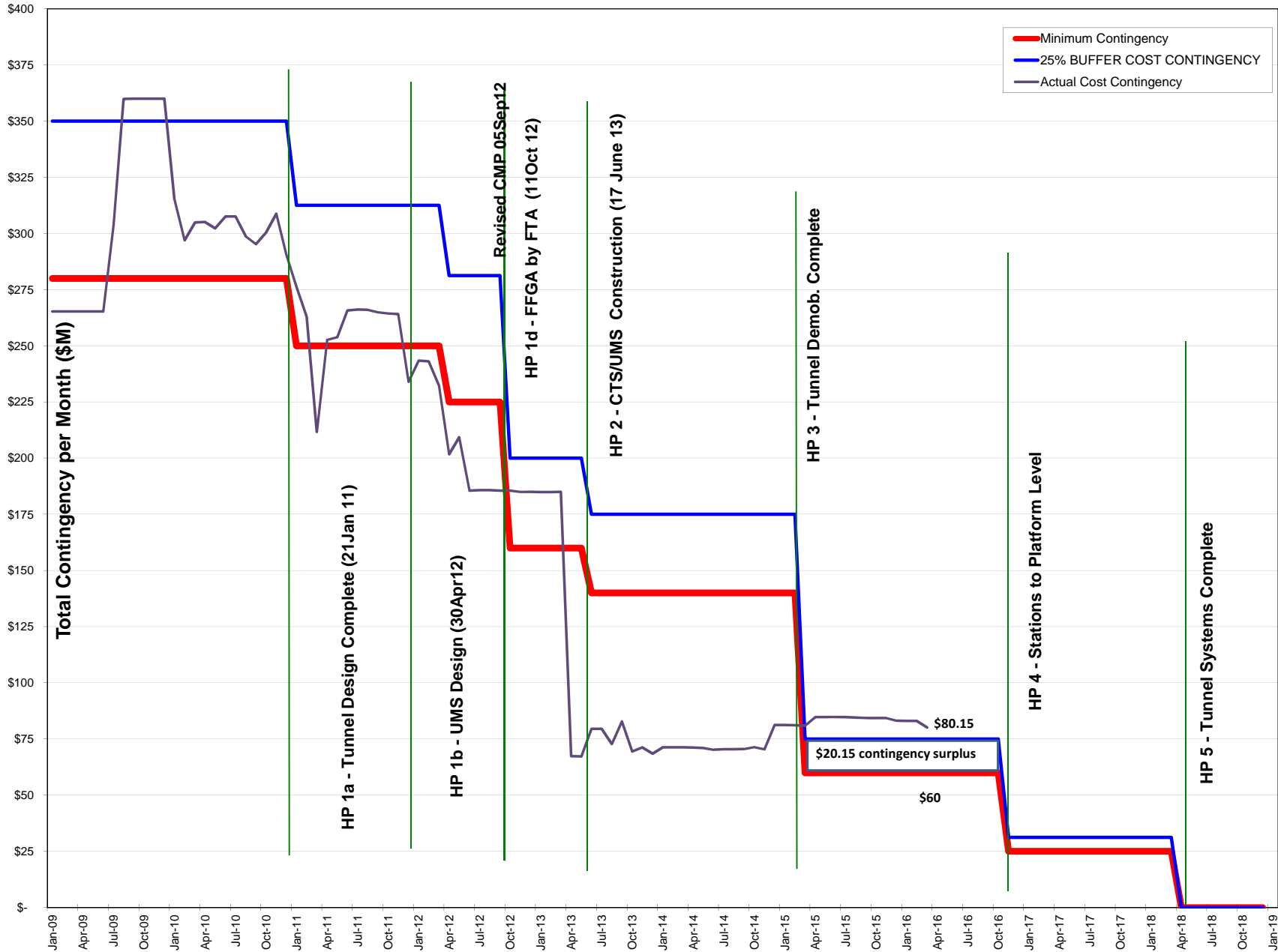
Earned Value Cash Flow Curve



Funding to Date = 1,179.79 Million

PV = 1,192 Million
 EV = 934 Million
 AC = 919 Million
 SPI = 0.78%
 CPI = 1.02%

Cost Contingency Drawdown



COST ELEMENT	CONTRACT COST					CONTINGENCY					BUDGET	VARIANCE	Cost Report Notes	
	ORIGINAL CONTRACT VALUE / September 2013 SUPPLEMENTAL BUDGET	APPROVED CHANGES	CURRENT CONTRACT VALUE	POTENTIAL CHANGES	ESTIMATE AT COMPLETION (EAC)	ORIGINAL CONTINGENCY / Sep 2013 SUPPLEMENTAL CONTINGENCY (Exclude CN 1250 & CN1251)	CONTINGENCY ADJUSTMENT TRANSFERS	REVISED AUTHORIZED CONTINGENCY (Exclude CN1250 & CN1251)	REMAINING CONTINGENCY AFTER APPROVED CHANGES DEDUCTED [h - b]	REMAINING CONTINGENCY AFTER POTENTIAL CHANGES DEDUCTED [i - d]	ORIGINAL CONTRACT VALUE + REVISED AUTHORIZED CONTINGENCY [a + h]	BUDGET - ESTIMATE AT COMPLETE [j - e]		
	a	b	[a + b]	d	[c + d]	f	g	h	i	j	j	k		
SCC 10-50 CONSTRUCTION CONTRACT PACKAGES														
1250	UTILITY RELOCATION PACKAGE #1 <i>Contract 1250 Department of Technology</i>	9,273,939 166,756	2,694,211	11,968,150 166,756		11,968,150 166,756	1,953,377	740,834	2,694,211		11,968,150 166,756		15	
1251	UTILITY RELOCATION PACKAGE #2 <i>Contract 1251 Department of Technology</i>	16,832,550 75,615	3,962,032	20,794,582 75,615		20,794,582 75,615	5,367,297	(1,405,265)	3,962,032		20,794,582 75,615		16	
1252	GUIDEWAY TUNNEL	233,584,015	1,643,774	235,227,789	170,654	235,398,443	23,658,464	(21,328,979)	2,329,485	685,711	515,057	235,913,500	515,057	17
1300	STATIONS	839,676,400	2,933,000	842,609,400	21,778,152	864,387,552	20,000,000		19,925,000	16,992,000	(4,786,152)	859,601,400	(4,786,152)	18
	1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	191,294	294,221,884	14,177,718	308,399,602	5,000,000		5,000,000	4,808,706	(9,369,012)	299,030,590	(9,369,012)	19
	1254 CHINA TOWN STATION [CTS]	247,567,810	2,602,458	250,170,268	4,718,399	254,888,667	5,000,000	(75,000)	4,925,000	2,322,542	(2,395,857)	252,492,810	(2,395,857)	19
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	(1,216,653)	156,872,347	3,830,476	160,702,823	5,000,000		5,000,000	6,216,653	2,386,177	163,089,000	2,386,177	
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	1,355,901	141,344,901	(948,441)	140,396,460	5,000,000		5,000,000	3,644,099	4,592,540	144,989,000	4,592,540	
OTHER		31,233,501		31,233,501	0	31,233,501	1,160,000		1,160,000	1,160,000	1,160,000	32,393,501	1,160,000	
SCC 10 - 50 Construction Sub-total		1,130,842,776	11,233,017	1,142,075,793	21,948,806	1,164,024,598	44,818,464	(21,403,979)	23,414,485	18,837,711	(3,111,095)	1,160,913,503	(3,111,095)	
SCC 60-80 SOFT COSTS PACKAGES														
60	ROW, LAND, EXISTING IMPROVEMENTS	36,511,799	(4,265,478)	32,246,321		32,246,321	1,000,000	4,265,478	1,000,000	5,265,478	5,265,478	37,511,799	5,265,478	20
70	VEHICLES	24,108,712	(10,799,712)	13,309,000		13,309,000	2,276,941	10,799,712	13,076,653	13,076,653	13,076,653	26,385,653	13,076,653	21
80	PROFESSIONAL SERVICES	310,518,041		310,518,041		310,518,041	18,221,079		18,221,079	18,221,079	18,221,079	328,739,120	18,221,079	
SCC 60 - 80 Construction Sub-total		371,138,552	(15,065,190)	356,073,362		356,073,362	21,498,020	15,065,190	32,297,732	36,563,210	36,563,210	392,636,572	36,563,210	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	21,134,447	24,980,392	24,749,924	24,749,924	24,749,924	24,749,924	22
TOTAL		1,501,981,328	(3,832,173)	1,498,149,155	21,948,806	1,520,097,960	70,162,429	14,795,658	80,692,609	80,150,844	58,202,039	1,578,299,999	58,202,039	
											Total Project Budget	1,578,300,000	23	
											Estimate At Completion	1,520,097,960	24	
											Variance	58,202,039	25	

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

Contract Modification/Trend Log - Contract 1252 Tunnel

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

Revised NTE Amount \$235,227,788.72
Revised Substantial Completion 4/15/2015

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

Connecting people. Connecting communities.

27	MOS – Reroute traffic signal lines / Equipment Standby	CORs 11, 17	\$80,719.00	\$232,546,253.23
28	PCC 12 - Comp.Grout Mtls., Accel. at R. Shaft, Haz. Mtls @ R.Shaft, Obst. at CSM panel W6 (NTE Amount CMod)	FA COs 006, 007, 008, 009	\$81,937.00	\$232,628,190.23
29	AWSS Conflict with Water Line, AWSS Restraining at Launch Box, AT&T Vault Conflict with Sewer Main	COR 1, 2, 3	\$73,045.00	\$232,701,235.23
30	MOS Headwall End-stops	COR 018	\$144,000.00	\$232,845,235.23
31	Launch Box - Slurry Wall Obstructions	COR 32, 34, 42, 43, 62, 65, 67	\$234,438.00	\$233,079,673.23
32	COR 8 + Markup - Associated w/ COR 001, COR 002, and COR 003	COR 1, 2, 3, 8	\$168,000.00	\$233,247,673.23
33	LB - Pre-Excavation for Slurry Walls	COR 015	\$125,000.00	\$233,372,673.23
34	Modifications to Tunnel Alignment at Market Street - Initial Design Costs	PCC 012 Part 1	\$39,930.00	\$233,412,603.23
35	Deleted AWSS Work at Union St. and Columbus Ave.	PCC 015	(\$187,181.00)	\$233,225,422.23
36	Curb Ramp Work at NE Corner of 4th and Harrison Streets (Force Account)	FA CO 011	\$5,023.00	\$233,230,445.23
37	Staging Yard Hazardous Material	COR 30, 54, 75	\$401,933.00	\$233,632,378.23
38	Modifications to AWSS Facilities at 4th and Bryant Streets	PCC 014	\$35,925.00	\$233,668,303.23
39	MOS N. Headwall Impacts, LB – Jet Grout Overrun	COR 85, 70	\$240,333.00	\$233,908,636.23
40	Culvert, Street & Sidewalk Restoration in N.Beach (includes QC testing)	PCC 20	\$694,651.00	funded by TEP
41	Install Water Main in North Beach	PCC 20	\$328,860.00	funded by SFPUC
42	UMS - Shoring Impacts due to 48" ATT Pipe at SW Headwall	COR 069	\$29,463.00	\$233,938,099.23
43	UMS Tangent Pile SRB-H DSC, UMS Jet Grout Column No. 18 DSC	COR 096, COR 102	\$60,870.00	\$233,998,969.23
44	Subcontractor Substitution	NA	\$0.00	\$233,998,969.23
45	Modifications to Tunnel Alignment - Construction Costs	PCC 12	\$883,693.00	\$234,882,662.23
46	MOS 20" Conflict with 16" AWSS @ South Headwall	COR 082	\$28,160.00	\$234,910,822.23
47	CDF Encasement on 42" RCP	COR 005	\$95,000.00	\$235,005,822.23
48	North Beach Water Main Additional Work	PCC 20	\$112,102.20	funded by SFPUC
49	Various CORS and FACOS; FACO 13-15, 17-19; COR 116, 118-121	FACO 13-15, 17-19; COR 116, 118-121	\$180,010.41	\$235,185,832.64
50	Contract Milestone Changes		\$0.00	\$235,185,832.64
51	PCC 020.1 Supp North Beach Restoration, OCS and Streetlighting		\$155,468.17	funded by TEP
52	PCC 19		\$11,678.00	\$235,197,510.64
53	COR 117		\$30,278.08	\$235,227,788.72
Sub Total:			\$1,643,773.72	

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

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

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

\$842,609,400
2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
Potential Changes	\$14,177,718	\$4,718,399	\$3,830,476	(\$948,441)	24
Forecasted - Trends	\$4,286,317	\$3,406,406	\$953,192	\$142,131	
Negotiation					
Change of date range to receive art	(\$10,001)				
UMS -Remove AWSS Hydrant at OFarrel	\$8,421				
UMS Powell St. Elevator Site Hazmat	\$16,028				
STS Traffic Signal and SL Changes				\$298,307	
STS Comm and Elec Cabinets Relocati				\$67,221	
CTS-PCC#17 FH at Jade Galore		\$106,350			
YBM Delete Instrument & Monitoring			(\$50,195)		
STS - OCS Pole Changes				\$12,706	
CTS-FACO#39- Soil Testing cmply OAB		\$5,478			
UMS-FACO #32 8" Waterline Conf NDSC	\$73,811				
UMS FACO #31 NDSC Incomplete PGE DB	\$36,980				
UMS-FACO #25 OCS Pole@ Market/Ellis	\$3,349				
UMS-FACO #19 Street Light at Stock.	\$2,361				
STS-FACO #48 Work Related St Lght				\$2,051	
UMS FACO #34 Becho Obstruct J Piles	\$7,435				
UMS FACO #45 Blocked Stubs PG&E	\$7,500				
UMS Transfer Instru BART Facilities	\$30,001				
CTS-PCC40 Plaza Surface Slab Pntrtn		\$5,525			
YBM PCC 41 Install #7 Box Clementin			\$29,001		
UMS Sewer Line Conflict	\$744,465				
UMS FACO #52 NDSC Transite Pipe	\$4,497				
UMS - PCC #039 (12" WL Relocate)	\$338,265				
YBM COR 116 Archaeological Discover			\$100,001		
USG COR 223 Wall Footing Clarif.	\$75,001				
USG COR 224 (N) Concrete Wall Conn.	\$76,609				
USG COR 228 Tiebacks at Level X	\$75,001				
USG COR 227 Plaza Lvl. Sequence	\$200,001				
USG COR 225 SOG/Wall Connection	\$50,001				
USG COR 226 SOG/Column Connection	\$20,001				
USG COR 261 8" Wall at Grid 11B	\$15,001				
USG COR 263 12" Shear Walls	\$50,001				
USG COR 262 Maintenance Hatch Walls	\$15,001				
USG COR 264 Str. Steel Shop Dwgs.	\$5,001				
UMS COR 250 Macy's DSC	\$75,001				

Contract Modification/Trend Log - Contract 1300 Stations

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	UMS	CTS	YBM	STS	COST REPORT NOTES
USG COR 280 Strut Wall Grid 16 - 17	\$50,001				
USG COR 284 New Beam at Grid Line C	\$50,001				
USG COR 285 Elev.Edge of Slab Dtl.	\$50,001				
USG COR 286 Shear Wall GL 13/B-C	\$25,001				
USG COR 273 E.Slab/Shear Wall Conn.	\$100,001				
USG COR 274 Shear Wall at Grid 10	\$10,001				
USG COR 275 Conn. Plaza Grid B	\$50,001				
USG COR 276 Escalator #1	\$10,001				
STS - Deletion of ARS (Revision 1)				(\$4,689,000)	
YBM COR 63 Buried objects in P-86			\$24,648		
STS COR 100 DSC Zayo PVC Conf w SW				\$80,082	
STS COR 210 WD pit size increase				\$21,988	
CTS COR 085 Addl FACO 10 Costs		\$13,267			
CTS PCC 001 Delete DB on Stockton		(\$84,018)			
STS COR #92 PG&E Vault Conf 12 AWSS				\$78,074	
STS COR #118 78" Sewer Excess Debris				\$54,455	
UMS - PCC #29 (Concrete Wale Suppt)	\$9,239				
CTS COR 041 FACO #4 JT Unid. Cond		\$28,026			
CTS COR 040 FACO 002 Connect (E) DB		\$16,936			
YBM COR 49 Buried timber piles			\$88,230		
STS 78 Sewer Existing Concrete Crow				\$1,666	
YBM COR 182 Cap (E) 16" AWSS Tee			\$18,859		
CTS-COR#201 Swr Line & Station Roof		\$55,000			
YBM COR 115 C1250 unencased JT			\$9,843		
STS-COR #84 Sewer Cleaning and Dewa				\$3,598	
STS COR #236 E WD Config at Freelon				\$57,283	
STS COR 272 Pier AWSS Conflict				\$24,287	
STS COR 258 WD/PVC Conflict				\$87,511	
STS COR 211 SW conf AWSS 4th/Freelo				\$4,561	
STS COR #229 Multi E Util Conf w N				\$8,284	
UMS COR 232 S.Walk Hatches RFI 240	\$744				
STS COR #88 Modify CBs and Culverts				\$4,395	
STS COR 101 Cleaning for non-78" SW				\$58,906	
STS COR #187 DB Conf w N 12 Water				\$37,012	
CTS COR 231 Sidewalk Hatches		\$19,249			
YBM COR 240 Headhouse Contam. Mtl.			\$126,229		
STS COR #241 2-In WD Line w Offset				\$5,386	

Contract Modification/Trend Log - Contract 1300 Stations

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR #296 Mult E Util Confl AWSS				\$130,001	
UMS COR 301 Concr. Overpour and PVC	\$6,642				
YBM PCC 062 Delete SW MH FOL 10+35			(\$21,453)		
STS PCC 063 Del ATT/TSIC/PGE on 4th				(\$36,495)	
STS COR 073 AWSS Incorrectly Shown				\$35,134	
STS COR 067 FACO #41 GW Lead Filter				\$22,695	
STS COR 037 FACO 037 30" FM Removal				\$63,972	
STS COR 090 Subsurface Obstrc				\$20,452	
YBM COR 310 12" WL Conf w/ 36" FM			\$292,036		
CTS COR 353 AWSS confl w HDPE in SW		\$3,203			
YBM COR 86 Side sewer conflict AT&T			\$75,001		
STS COR 091 PG&E Vault Conf 16" Wtr				\$20,001	
STS COR 093 12" Water Conf 12" Tee				\$5,001	
STS COR 094 Unknown DB Conf 12" Wtr				\$20,001	
USG COR 238 Grid 17 & Vent Conn.	\$50,001				
USG COR 237 Elevator Sump Pits	\$20,001				
STS COR 074 AWSS Offset/Sewer Demo				\$108,384	
USG COR 315 Beam Conflict at C Line	\$50,001				
USG COR 281 8in Slab Conn.at B Line	\$25,001				
USG COR 345 8 inch Slab Support	\$15,001				
USG COR 343 Edge of Slab Detail	\$5,001				
USG COR 360 Column on Grid Line B	\$5,001				
USG COR 363 Grid Line B Footing	\$10,001				
USG COR 358 Elev. Machine Rooms	\$5,001				
USG COR 359 Escalator #1 Truss Span	\$2,001				
USG COR 374 Add Built Up Columns	\$25,001				
STS COR 198 NDSC Out of Spec Cover				\$8,123	
UMS COR 300 14 HDPE at Geary	\$2,069				
YBM COR 362 Temp Pavement Section			\$139,802		
STS COR 367 DSC Conf w/ CP and FM				\$36,256	
YBM COR 373 DSC NoD Contaminated Ma			\$47,144		
UMS Roof Deck - Schedule Recovery	\$78,765				
STS PCC 066 Add CS ATCS Emer Stop B				\$315,001	
STS COR 387 Oil Line Confl SW MH				\$6,124	
USG COR 386 Built up Column	\$75,001				
USG COR 388 Grid Line C Beam Slab	\$10,001				
UMS COR 391 AT&T Duct Bank Conflict	\$25,001				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
USG COR 365 Elevator Hoist Beam	\$50,001				
UMS COR 389 4" Steel line asbestos	\$20,001				
YBM COR 390 RFI 1654 Chip Headwall			\$45,118		
USG COR 394 Ramp Conflict with HVAC	\$75,001				
USG COR 395 Rebar Detail over HVAC	\$5,001				
USG COR 396 HVAC Wall Opening Rebar	\$5,001				
USG COR 398 Reinforcing at Columns	\$20,001				
USG - PCC #030 (US Garage Underpin)	(\$576,004)				
USG COR 397 Duct Trench at Level 4	\$5,001				
USG COR 384 Slab on Grade Depressio	\$100,001				
USG COR 414 SOG Underneath the Ramp	\$100,001				
USG COR 435 Work Stoppage	\$50,001				
USG Hydrant Relocation on Geary St.	\$65,163				
USG COR 415 Glass Roof Steel Elev.	\$10,001				
USG COR 438 Shear Wall at GL 10B	\$2,001				
USG COR 439 Top of Built-Up Columns	\$20,001				
USG COR 444 Mech. Opening in Wall	\$10,001				
CTS COR 453 Steel Line Confl w/ SS		\$5,070			
UMS PG&E Additional Conduits	\$36,657				
STS PCC 077 Tunnel Sump Pump Upgrad				\$11,147	
UMS Preload Rqmt for Concourse	\$2,700,001				
USG Door Openings in Shear Walls	\$35,001				
YBM COR 457 Modify Beams in Conc.			\$15,001		
UMS COR 466 Asbestos Conduit	\$7,501				
UMS COR 417 Redesigned Manhole	\$20,551				
YBM COR 477 Issues with Headwalls			\$20,001		
YBM COR 485 Issues with N S Headwal			\$30,001		
YBM COR 54 Conc obst 20" cut & cap			\$56,654		
YBM COR 72 Concrete, jet grout 1252			\$84,509		
YBM COR 230 Change load Bilco hatch			\$15,119		
YBM COR 249 Utility conflicts Folso			\$91,877		
UMS FACO #29 BART Hazmat Abatement	\$22,884				
STS COR 089 Extra Sewer Work				\$29,468	
YBM COR 45 Abandoned sewer not slurr			\$44,645		
YBM COR 458 TPC site support Zayo			\$4,460		
USG PCC 73 Acceleration of Work	\$102,203				
YBM COR 50 Contam soil along H Line			\$257,594		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

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

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2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
YBM COR 243 Culvert Conflict NE Cor			\$11,334		
STS COR 480 Conc confl w (N) FM				\$886	
YBM COR 248 Transite pipe Folsom			\$1,501		
YBM COR 46 Add analy tests by AEW			\$5,001		
USG COR 490 Wall Opening for HVAC	\$15,001				
YBM COR 525 Defective Documents			\$50,001		
USG COR 532 Wall Connection	\$5,001				
USG COR 534 Existing Column Tie-In	\$5,001				
USG COR 538 B Line Ramp Wall Rebar	\$5,001				
USG COR 539 Elev. 3/4 Machine Pocke	\$10,001				
USG COR 344 Unknown Grade Beams	\$10,001				
USG COR 541 Plaza Level Lighting	\$5,001				
USG COR 544 Vent Shaft	\$10,001				
USG COR 546 Tiebacks at Level X	\$0				
USG COR 551 Additional Waterstops	\$5,001				
USG COR 552 Plumbing	\$0				
USG COR 553 Details at Glass Roof	\$10,001				
USG COR 555 Stair #1	\$5,001				
UMS COR 493 Steel Shape Inside Pile	\$25,001				
UMS COR 516 Utilities and Slab at G	\$10,001				
USG COR 501 Tieback X-16	\$20,001				
UMS COR 510 6" VCP Side Sewer	\$19,696				
USG COR 514 Added Structural Dtls.	\$10,001				
UMS Grade 50 Steel in Lieu Grade 70	\$572,884				
STS Tunnel Lowering				\$109,224	
UMS COR 565 GEN Emer Vent Design	\$500,001				
Proposed Contract Change (PCC)					
UMS - Geoprobe Credit	(\$30,320)				
UMS - Relocation of TS Cabinet	\$23,275				
CTS - Stairs 5, 6, 7 Mods		\$25,000			
UMS - Escalator Barricade	(\$122,511)				
UMS - USG HVAC Trench Modifications	\$75,001				
CTS - CMU Wall Bracing		\$10,200			
UMS MRY Duct Bank-East Conflict	\$59,251				
YBM PCC 32 Delete Post-Grout of TB-2			(\$10,001)		
YBM_CTS PCC 33 Platform Gate Revisio			\$100,001		
CTS - Removal of Bus Bulb		\$15,997			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

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

\$842,609,400
2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS Delete PGE Work at Vault 732		(\$50,000)			
UMS Remove Fire Hose Valve	(\$1,905)				
UMS MRY Duct Bank-West	\$54,981				
STS PCC #51 Inventory Temp Crossover				\$20,001	
Deletion of ARS (Part II)				(\$600,001)	
YBM PCC 56 OCS Pole Foundations			\$551		
UMS - DCW and Hose Bibbs	\$30,000				
STS Track Switch Mach Change (Rev 1)				\$50,001	
CTS PCC 061 (Rev1) Rev Escalator Pit		\$50,001			
CTS PCC 067 Wall Shift North Access		(\$1,097)			
USG Ramp Barriers and Handrail	\$75,001				
CTS PCC 050 Chinatown Plaza		\$0			
YBM PCC 69 Sidewalk Bulb-out Stair#1			\$62,508		
USG Removal of Existing Column	(\$101)				
YBM PCC 76 AWSS, SSFM, 20"WM Changes			\$150,001		
UMS Jet Grout at O'Farrell	\$35,001				
YBM PCC 79 Install 12in WM to Howar			\$169,450		
YBM PCC 82 Delete Scope Due to Hotel			(\$50,000)		
YBM PCC 37 SFAC Node Sculpture			\$100,001		
YBM PCC 59 Pavers Basis of Design			\$20,001		
UMS Locate PG&E Conduits	\$20,001				
CTS PCC 083 Switchgear Breakers		\$30,001			
STS PCC 084 Removal of ATT DB & Vau				\$50,001	
YBM PCC 85 Ticketing Hall Changes			\$100,001		
UMS PCC 86 Headwall Soffit Pile	\$0				
USG PCC 87 Tiebacks, L2, GL 14-15	\$40,001				
YBM PCC 88 Extend 24" WM to Howard			\$250,001		
USG PCC 89 E. Light Pole Foundation	\$2,501				
YBM PCC 90 Replace Bollards on 4th			\$15,001		
UMS PCC 71 Rerouting of Slab Drains	\$0				
YBM PCC 91 Concourse Beam Revision			\$0		
UMS PCC 092 (GEN) TME Tracking Form	\$2,501				
UMS PCC 93 Ellis Deck Seismic Joint	\$10,001				
UMS Repair MRY Ductbank Y Connection	\$0				
Change Order Request (COR)					
STS COR 17 Changes to Sewer Structu				\$20,000	
YBM-FACO #36 Buried sheet pile P-7			\$879		

Contract Modification/Trend Log - Contract 1300 Stations

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2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS-FACO #47 Sewer Related Work Pt2				\$33,898	
UMS-FACO #30 NDSC Inadequate CDF	\$157,462				
STS- AT&T Conduit Changes				\$22,290	
UMS COR 235 DSC Transite Pipe	\$1,969				
STS COR 113 DSC PVC Conduit/WL Conf				\$11,997	
STS COR 145 DSC PVC Conduits Conf				\$1,276	
STS COR 164 DSC 8" AWSS Lat Conf 78				\$5,750	
STS COR 254 DSC 4" Confl w 36" FM				\$25,197	
CTS COR 255 Additional Instruments		\$429,777			
STS COR 270 SW AWSS Conflict				\$8,280	
STS COR 271 DB AWSS Conflict				\$891	
UMS COR 277 8" Steel line Asbestos	\$4,056				
STS COR 290 E CB PVC Confl WD AWSS				\$10,000	
STS COR 297 TC for Track Work at 4t				\$150,001	
UMS COR 110 DSC Obst. at JG Columns	\$1,279,410				
USG COR 246 Tieback Access RFI 1050	\$160,933				
CTS COR 305 Abandon OBW-CTS-03		\$1,790			
STS COR 371 Conflicts w/ 12" AWSS				\$30,001	
CTS COR 372 DSC Potholing @ N Acces		\$9,846			
STS COR 392 Util at 4th-Town SW MH				\$25,001	
STS COR 402 3x5 SW Confl w/ VCP SW				\$10,001	
UMS COR 403 Waterproofing at BART	\$20,001				
STS COR 404 Contam Soil in MRY DB				\$12,303	
UMS COR 407 8 inch SS Line Conflict	\$4,956				
YBM COR 267 Design for S.walk Hatch			\$10,848		
STS COR 014 Addtl MNHS for 78" SW				\$20,217	
STS COR 401 AWSS Layout 4th/King				\$295,269	
STS COR 406 Addtl TC at 4th/King				\$675,001	
STS COR 409 Conc in confl w/ (N) FM				\$3,722	
STS COR 411 Delay 8" WL miss serv				\$7,501	
STS COR 416 Conc DB/wall/lines conf				\$30,001	
CTS COR 430 Unknown Concrete		\$3,754			
CTS COR 429 Thickened Street Base		\$2,618			
CTS COR 408 MSX Termination		\$10,001			
CTS COR 436 WD confl with SW MH A		\$20,731			
CTS COR 437 Unanticipated Elec @ Sh		\$50,001			
STS COR 443 AWSS Procurement Delay				\$25,001	

Contract Modification/Trend Log - Contract 1300 Stations

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	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 445 3x5 w/ HDPE/PVC Inside		\$10,001			
CTS COR 450 Switchgear Cubicles		\$100,001			
STS COR 451 PGE Vlt WD Line Confl				\$30,001	
CTS COR 452 ATT Vlt Confl w/ SS Lat		\$1,742			
STS COR 454 Addtl Conflicts w/ 8" W				\$120,001	
STS COR 455 Conflicts w/ 8" WD Line				\$10,001	
STS COR 456 Conflicts w/ MRY Poles				\$20,001	
UMS COR 393 Wrap 14" Sewer Line	\$4,131				
STS COR 461 WD Confl w/ Mult Utilit				\$100,001	
STS COR 469 SW Cleaning 4th/King				\$1,836	
CTS COR 470 Steel Pipe/SW MNH Confl		\$2,186			
USG COR 471 Tieback Install Delays	\$46,250				
STS COR 475 Removal of Fiber Optic				\$1,101	
STS COR 476 Conc DB Conf w/ FH				\$25,001	
UMS COR 550 Grout in Arthur Beren	\$20,001				
YBM COR 459 AWSS / WD Conflict			\$83,484		
YBM COR 474 Folsom Culvert at PG&E			\$24,661		
USG COR 486 Level X Test Tieback	\$0				
STS COR 500 Tunnel Monuments				\$5,001	
USG COR 512 Plaza Slab Conflict	\$50,001				
STS COR 519 Re-pressure test WD				\$2,739	
CTS COR 521 Accomodations for Chine		\$11,848			
STS COR 523 AV & GV on 8" WD Main				\$1,601	
CTS COR 526 Connection b/t Wall & D		\$25,001			
CTS COR 527 Connection b/t Wall/Dec		\$25,001			
CTS COR 528 AWSS in 3x5 Brk SW		\$21,049			
STS COR 530 Tunnel Track Machine				\$20,064	
STS COR 531 ATT Confl w/ 36" FM				\$25,001	
STS COR 536 Util in Conf w 36" FM				\$30,001	
STS COR 545 Traffic Control Costs				\$200,001	
STS COR 557 ATCS Revisions				\$50,001	
STS COR 558 CB in conf w AWSS				\$3,001	
STS COR 561 ATCS Mitigation NCT				\$1	
STS COR 563 Utils conf w new AWSS				\$5,001	
STS COR 491 Util in conf w/ 10" VCP				\$10,001	
UMS COR 499 48-inch Steel Casing	\$50,001				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

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

\$842,609,400
2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 171 Mismarked gas line		\$7,801			
CTS COR 547 Addtl piezometer		\$38,959			
STS COR 562 WD offsets around basin				\$25,534	
YBM COR 564 Concrete Encased PG&E			\$0		
CTS COR 568 CMOD 019 Reservations		\$300,001			
USG COR 569 Steel Plate Under Glass	\$0				
STS COR 570 Slab confl w/ AWSS				\$3,001	
STS COR 571 Brk struc confl w/ AWSS				\$3,001	
UMS COR 573 Waterproofing and Drain	\$0				
CTS COR 574 Escalator supports		\$1			
UMS COR 575 Pre-Load of Perm.Struts	\$0				
YBM COR 576 Risers in Conc. Level			\$0		
UMS COR 577 Split Sleeve on Sewer	\$658				
UMS COR 578 Elev./Escalator Monitor	\$0				
UMS COR 579 Elevators 1-4 SFFD	\$0				
YBM COR 581 SFFD Montor Panel			\$0		
STS COR 584 Debris confl w/ culvert				\$11,569	
YBM COR 585 Water in N.Headwall			\$0		
YBM COR 586 Concrete Block @ Folsom			\$10,001		
UMS COR 590 Steel Line Conflict	\$892				
UMS COR 591 Escalators and Stairs	\$0				
UMS COR 594 Utilities @ O'Farrell	\$3,473				
UMS COR 595 Fuel Tank S. of Geary	\$50,001				
YBM COR 580 Elev./Escalator Monitor			\$0		
YBM COR 597 Power Circuits for CCTV			\$0		
YBM COR 598 Power Circuit for CCTV			\$0		
YBM COR 599 Elect for HVAC VRV's			\$0		
UMS COR 600 Hydrocarbon Odor	\$50,001				
UMS COR 603 Vault 532 Filled Slurry	\$10,001				
Change Order - Pending					
CTS-Plaza Surface Level Struct Mods		(\$10,337)			
STS Additional AT&T Ductbank at 4th				\$108,053	
UMS FACO #53 NDSC Transite Pipe	\$61,055				
STS COR #170 Cores in 78" RC Crown				\$1,666	
YBM COR 295 DSC AT&T Vault Conflict			\$2,563		
YBM COR 117 Additional Signage			\$3,902		
YBM COR 268 Repair PG&E Sink Hole			\$8,956		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	\$839,676,400	\$842,609,400
Substantial Completion	2/10/2018	2/10/2018

	UMS	CTS	YBM	STS	COST REPORT NOTES
YBM COR 418 Force Main Vault Size			\$3,033		
YBM COR 448 Elbow at Clementina			\$723		
UMS COR 079 DSC Storage Tanks	\$97,817				
YBM COR 253 DSC Pipe Conflict			\$6,504		
STS COR 468 Buried Debris in Subgra				\$2,027	
YBM COR 95 UST Removal Folsom			\$156,733		
YBM COR 87 Transite pipe water insta			\$12,732		
Approved	\$191,294	\$2,602,458	(\$1,216,653)	\$1,355,901	
Contract Modification					
CMod #1 BART Elevator Option 1 @ Pow	\$90,000				
CMod #3 CTS Work Safely Ard Power Po		\$25,956			
CMod #5 YBM Deletion of Comp Groutin			(\$1,833,869)		
CMod#7 STS FACOs 016, 017 &COR 009				\$80,170	
CMod #4 CTS-Force Account Change Or		\$130,000			
Cmod #10 YBM PCC 042			\$64,287		
CMod#8 STS PCC 006 ATT MH, PB&Trench				\$225,208	
CMod #9 YBM COR 10,15,16,18,20,25			\$126,663		
CMod #11 UMS PCC 002	\$12,997				
CMod #12 STS Traffic Control				\$1,032,302	
CMod # 14 YBM COR 036, 078			\$58,526		
CMod #15 YBM COR 196			\$3,178		
CMod #16 UMS COR 184	\$8,261				
CMod #017 CTS CORs 001 053 & 069		\$54,322			
CMod #018 CTS PCC 012		\$60,248			
CMod #13 CTS COR 006		\$57,707			
CMod #19 CTS COR 007, 026		\$2,274,225			
CMod #20 YBM PCC 047 and 45			\$364,562		
CMod #021 STS CORs 48/52/114/233/252				\$18,221	
CMod #22 UMS PCC 045, 046	\$16,198				
CMod #23 UMS PCC 058	\$63,838				
Grand Total	14,369,012	7,320,857	2,613,823	\$407,460	

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

Report Period: Mar 2016

		Feb 2016			Mar 2016				
Group by Contract & SCC	CATEGORY ITEM	Feb 2016 Base	Feb 2016 Allocated Contingency	Feb 2016 Base + Allocated Contingency (YOE)	Mar 2016 Base	Mar 2016 Allocated Contingency	Mar 2016 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [Mar 2016] vs. [Feb 2016]	Cost Report Notes
10-50	CONSTRUCTION CONTRACT PACKAGES	1,139,191,782	21,952,189	1,161,143,971	1,142,075,793	18,837,711	1,160,913,503	(230,468)	
1250	UTILITY RELOCATION PACKAGE #1	12,134,906		12,134,906	12,134,906		12,134,906	0	
	Contract 1250 Form B Credit	(2,275,419)		(2,275,419)	(2,275,419)		(2,275,419)	0	
1251	UTILITY RELOCATION PACKAGE #2	20,870,197		20,870,197	20,870,197		20,870,197	0	
	Contract 1251 Form B Credit	(7,618,412)		(7,618,412)	(7,618,412)		(7,618,412)	0	
1252	GUIDEWAY TUNNEL	235,005,822	1,063,145	236,068,968	235,227,789	685,711	235,913,500	(155,468)	27
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
1300	CN1300 STATIONS TOTAL	839,947,356	19,729,044	859,676,400	842,609,400	16,992,000	859,601,400	(75,000)	28
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	294,141,848	4,888,742	299,030,590	294,221,884	4,808,706	299,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	247,971,043	4,596,767	252,567,810	250,170,268	2,322,542	252,492,810	(75,000)	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	156,507,785	6,581,216	163,089,001	156,872,347	6,216,654	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	141,326,680	3,662,319	144,988,999	141,344,901	3,644,098	144,988,999	0	
	STS 1256 SFPUC SEWER MAIN CREDIT	(2,925,296)		(2,925,296)	(2,925,296)		(2,925,296)	0	
	STS 1256 Form B Credit	(1,000,000)		(1,000,000)	(1,000,000)		(1,000,000)	0	
OTHER	OTHER CONSTRUCTION TOTAL	46,386,751	1,160,000	47,546,751	46,386,751	1,160,000	47,546,751	0	
40.06	PUBLIC ART PROGRAM	8,175,555	1,160,000	9,335,555	8,175,555	1,160,000	9,335,555	0	
40.02	MISC. CONSTR CONTRCT WK (TRACTION POWER FOR 1251)	258,202		258,202	258,202		258,202	0	
40.01	CONTRACT 1300 SOIL PROCESS	500,000		500,000	500,000		500,000	0	29
50.01	TEMPORARY LICENSE AGREEMENT (ATCS CENTRAL CONTROL)	487,972		487,972	487,972		487,972	0	
50.06	MTA FARE COLLECTION EQUIPMENT	5,400,000		5,400,000	5,400,000		5,400,000	0	
50.06	BART FARE COLLECTION EQUIPMENT	700,000		700,000	700,000		700,000	0	
40.02	JOB ORDER CONTRACTS (JOCS) - CONSTRUCTION	117,255		117,255	117,255		117,255	0	
40.08	AON RISK INSURANCE	18,088,750		18,088,750	18,088,750		18,088,750	0	

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

Report Period: Mar 2016

		Feb 2016			Mar 2016				
Group by Contract & SCC	CATEGORY ITEM	Feb 2016 Base	Feb 2016 Allocated Contingency	Feb 2016 Base + Allocated Contingency (YOE)	Mar 2016 Base	Mar 2016 Allocated Contingency	Mar 2016 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [Mar 2016] vs. [Feb 2016]	Cost Report Notes
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	(2,368,540)		(2,368,540)	(2,368,540)		(2,368,540)	0	
50.03	SURFACE STATION POWER FEED	11,839		11,839	11,839		11,839	0	
50.04	COMMUNICATION CONNECTION COSTS	5,757,629		5,757,629	5,757,629		5,757,629	0	
60	ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	5,265,478	37,511,799	32,246,321	5,265,478	37,511,799	0	
60.01	PURCHASE OR LEASE OF REAL ESTATE	30,065,810	5,265,478	35,331,288	30,065,810	5,265,478	35,331,288	0	30
60.02	RELOCATION OF EXISTING HOUSEHOLDS	2,180,511		2,180,511	2,180,511		2,180,511	0	
70	VEHICLES	13,309,000	13,076,653	26,385,653	13,309,000	13,076,653	26,385,653	0	
70.01	LIGHT RAIL	13,309,000	13,076,653	26,385,653	13,309,000	13,076,653	26,385,653	0	31
70.07	SPARE PARTS								
80	PROFESSIONAL SERVICES	310,518,041	18,221,079	328,739,120	310,518,041	18,221,079	328,739,120	0	
80.01	PRELIMINARY ENGINEERING	46,202,674		46,202,674	46,202,674		46,202,674	0	
80.02	FINAL DESIGN	61,322,751		61,322,751	61,322,751		61,322,751	0	
80.03	PROJECT MANAGEMENT FOR DESIGN & CONSTRUCTION	89,021,634	13,905,845	102,927,479	89,021,634	13,905,845	102,927,479	0	
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	91,037,791	2,956,812	93,994,603	91,037,791	2,956,812	93,994,603	0	
80.05	INSURANCES	6,800,000		6,800,000	6,800,000		6,800,000	0	

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

Report Period: Mar 2016

		Feb 2016			Mar 2016				
Group by Contract & SCC	CATEGORY ITEM	Feb 2016 Base	Feb 2016 Allocated Contingency	Feb 2016 Base + Allocated Contingency (YOE)	Mar 2016 Base	Mar 2016 Allocated Contingency	Mar 2016 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [Mar 2016] vs. [Feb 2016]	Cost Report Notes
80.06	LEGAL: PERMITS. REVIEW FEES BY OTHER AGENCIES	8,258,184		8,258,184	8,258,184		8,258,184	0	
80.07	SURVEYS, TESTING, INVESTIGATION. INSPECTION	883,100		883,100	883,100		883,100	0	
80.08	START-UP	6,991,907	1,358,422	8,350,329	6,991,907	1,358,422	8,350,329	0	
	ALL SCC CATEGORIES 10 TO 80	1,495,265,145	58,515,399	1,553,780,544	1,498,149,155	55,400,921	1,553,550,076	(230,468)	
90	UNALLOCATED CONTINGENCIES			24,519,459			24,749,927	230,468	32
	TOTAL PROJECT COST 10 TO 100			1,578,300,002			1,578,300,002		
	TOTAL CONTINGENCY			83,034,858			80,150,847		
	CONTINGENCY MINIMUM			60,000,000			60,000,000		
	BELOW OR ABOVE MINIMUM			23,034,858			20,150,847		

COST STATUS BY CATEGORY	SCC CODES	BUDGET Feb 2016	BUDGET TRANSFERS	BUDGET Mar 2016	Mar 2016 CTD	Mar 2016 EAC
CONSTRUCTION	SCC 010 - 050	1,161,143,972	(230,468)	1,160,913,504	657,204,826	1,164,024,598
REAL ESTATE	SCC 060	37,511,799	0	37,511,799	30,646,005	32,246,321
VEHICLES	SCC 070	26,385,653	0	26,385,653	2,147,204	13,309,000
PRELIM ENGINEERING	SCC 080.01	46,202,674	0	46,202,674	46,202,675	46,202,674
FINAL DESIGN	SCC 080.02	61,318,331	0	61,318,331	61,576,939	61,322,751
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	196,922,082	0	196,922,082	108,786,199	180,059,425
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,296,033	0	24,296,033	12,305,679	22,933,191
UNALLOC CONTINGENCY	SCC 090	24,519,456	230,468	24,749,924		
Grand Total		1,578,300,000	0	1,578,300,000	918,869,527	1,520,097,960

SCC DESCRIPTION	Mar 2016 BUDGET	Mar 2016 CTD
010 - GUIDEWAY & TRACK ELEMENTS	285,716,623	187,908,299
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	573,966,021	272,568,146
040 - SITEWORK & SPECIAL CONDITIONS	205,859,761	179,088,219
050 - SYSTEMS	95,371,099	17,640,162
060 - ROW, LAND, EXISTING IMPROVEMENTS	37,511,799	30,646,005
070 - VEHICLES (number)	26,385,653	2,147,204
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	328,739,120	228,871,492
090 - UNALLOCATED CONTINGENCY	24,749,924	
Grand Total	1,578,300,000	918,869,527

SCC DESCRIPTION	Mar 2016 BUDGET	Mar 2016 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	145,000
010.06-Guideway: Underground cut & cover	70,833,126	61,881,296
010.07-Guideway: Underground tunnel	200,812,771	120,666,532
010.09-Track: Direct fixation	6,761,089	2,596,871
010.12-Track: Special (switches, turnouts)	4,449,637	2,618,600
020.01-At-grade station, stop, shelter, mall, terminal, platform	6,673,138	1,309,034
020.02-Aerial station, stop, shelter, mall, terminal, platform	3,644,098	0
020.03-Underground station, stop, shelter, mall, terminal, platform	541,946,948	267,978,618
020.07-Elevators, escalators	21,701,837	3,280,493
040.01-Demolition, Clearing, Earthwork	11,144,242	9,765,444
040.02-Site Utilities, Utility Relocation	56,641,040	54,588,211
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	7,301,393	3,293,094
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,020,165	515,707
040.05-Site structures including retaining walls, sound walls	2,706,431	2,706,431
040.06-Pedestrian / bike access and accommodation, landscaping	9,755,506	2,110,364
040.07-Automobile, bus, van accessways including roads, parking lots	6,967,874	2,133,265
040.08-Temporary Facilities and other indirect costs during construction	110,323,109	103,975,704
050.01-Train control and signals	28,031,423	6,042,263
050.02-Traffic signals and crossing protection	12,584,529	6,559,245
050.03-Traction power supply: substations	21,487,073	3,856,853
050.04-Traction power distribution: catenary and third rail	12,441,113	1,132,797
050.05-Communications	12,062,374	49,003
050.06-Fare collection system and equipment	6,100,000	0
050.07-Central Control	2,664,586	1
060.01-Purchase or lease of real estate	35,331,288	28,236,576
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	26,385,653	2,147,204
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,576,939
080.03-Project Management for Design and Construction	102,927,479	60,319,915

SCC DESCRIPTION	Mar 2016 BUDGET	Mar 2016 CTD
080.04-Construction Administration & Management	93,994,603	48,466,284
080.05-Professional Liability and other Non-Construction Insurance	6,800,000	6,340,196
080.06-Legal; Permits; Review Fees by other agencies, cities, etc.	8,262,604	4,573,109
080.07-Surveys, Testing, Investigation, Inspection	883,100	13,831
Grand Total	1,578,300,000	918,869,527

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] March 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
TOTAL PRELIMINARY ENGINEERING	46,542,061	46,542,061	0	0	46,542,061	0	33
11 - SFMTA PROJECT MANAGEMENT	8,828,359	8,253,957	0	0	8,253,957	574,403	34
12 - SFMTA ENGINEERING SERVICES	11,425,594	11,425,594	0	0	11,425,594	0	35
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	935,451	802,883	0	0	802,883	132,568	
21 - ARTS COMMISSION	1,500,570	1,500,570	0	0	1,500,570	1	36
22 - FIRE DEPARTMENT	33,825	33,825	0	0	33,825	0	
23 - CITY ATTORNEY'S OFFICE	1,234,754	1,234,754	0	0	1,234,754	0	
24 - RISK MANAGEMENT	0	0	0	0	0	0	
26 - PLANNING	99,604	99,604	0	0	99,604	0	
27 - DEPARTMENT OF PUBLIC HEALTH (DPH)	4,420	4,420	0	0	4,420	0	
29 - CITY AUDITOR	308,540	315,616	0	0	315,616	(7,076)	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	3,322,887	3,714,064	0	0	3,714,064	(391,177)	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	17,462	17,462	0	0	17,462	0	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	76,549	76,549	0	0	76,549	0	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	13,993	13,993	0	0	13,993	0	
51 - 821 HOWARD STREET	1,005,653	1,005,653	0	0	1,005,653	0	
55 - 651 BRANNAN	2,294,910	2,294,910	0	0	2,294,910	0	37
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	26,793,234	26,793,234	0	0	26,793,234	0	38
66 - ANIL VERMA	395,204	395,204	0	0	395,204	0	39
67 - HILL INTERNATIONAL CONTRACT 156	6,716,294	6,716,294	0	0	6,716,294	0	
68 - ARTHUR GALLAGER & CO. CS 164	6,800,000	6,340,196	0	0	6,340,196	459,804	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	5,469,336	5,469,336	0	0	5,469,336	0	40
72 - STATIONS - CONTRACT # CONTRACT 155-2	26,220,609	26,220,609	0	0	26,220,609	0	41
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	11,432,312	11,432,312	0	0	11,432,312	(0)	42
331 - BAY AREA RAPID TRANSIT (BART)	146,427	146,427	0	0	146,427	0	
332 - SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY (SFCTA)	0	0	0	0	0	0	
TOTAL FINAL DESIGN	115,075,987	114,307,465	0	0	114,307,465	768,523	
11 - SFMTA PROJECT MANAGEMENT	15,589,933	6,241,779	155,518	178,541	6,420,320	9,169,613	
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	15,589,933	6,241,779	155,518	178,541	6,420,320	9,169,613	
12 - SFMTA ENGINEERING SERVICES	905,264	2,164,776	47,287	75,911	2,240,687	(317,105)	
1.3.012.02.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1252	123,582	57,648	0	0	57,648	65,934	
1.3.012.06.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1300	1,800,000	2,107,128	47,287	75,911	2,183,039	(383,039)	
13 - SFMTA CONSTRUCTION MANAGEMENT	44,075,375	9,590,774	194,603	243,090	9,833,864	33,223,193	
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	43,057,057	9,590,774	194,603	243,090	9,833,864	33,223,193	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,588,074	1,529,978	7,494	5,013	1,635,912	2,062,841	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	81,262	1,253	1,711	82,973	216,627	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	66,776	837	220	66,996	207,904	

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1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	101,200	226	1,824	103,023	135,377	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	165,682	5,178	1,258	166,941	709,935	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B86]	0	204,261	0	0	204,261	(204,261)	
1.3.016.06.040.02 - DPT:DPT TRAFFIC SHOP CONTRACT 1300	1,200,000	0	0	0	0	1,200,000	
1.3.016.07.080.04 - DPT:SSD DS/CN: 1UTL	38,450	0	0	0	0	38,450	
1.3.016.08.040.08 - DPT:PCOS:2UTL [68A]	400,728	400,728	0	0	400,728	0	
1.3.016.08.040.08 - DPT:SSD CN:2UTL	0	108,020	0	0	108,020	(108,020)	
1.3.016.08.080.04 - DPT:SSD [1326]	259,120	274,552	0	0	274,552	(15,432)	
1.3.016.08.080.04 - DPT:SSD [13BN]	0	23,302	0	0	23,302	(23,302)	
1.3.016.08.080.04 - DPT:SSD [13CN]	0	963	0	0	963	(963)	
1.3.016.08.080.04 - DPT:SSD [B85]	0	92,008	0	0	92,008	(92,008)	
1.3.016.09.040.08 - PCOS:1300/STS [68CPT544132Z.CPT544132Z]	0	9,759	0	100,921	110,679	(110,679)	
17 - MOTIVE POWER	2,195	0	0	0	0	2,195	
1.3.017.07.040.02 - PWR:SFMTA-MOTIVE POWER-UTL.REL	2,195	0	0	0	0	2,195	
18 - SFMTA OPERATIONS	400,000	39,586	0	0	39,586	286,883	
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	26,469	0	0	26,469	73,531	
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300/UMS	300,000	13,117	0	0	13,117	286,883	
19 - OTHER SFMTA	700,000	1,504,961	0	446	1,505,407	(805,407)	
1.3.019.01.080.07 - OTH.MTA SURVEY AND TESTING	500,000	0	0	0	0	500,000	
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	0	714	0	0	714	(714)	
1.3.019.08.040.08 - OTH.MTA 1251 MATERIALS	150,000	126,149	0	0	126,149	23,851	
1.3.019.08.080.08 - OTH.MTA OPERATION SUPPORT DURI	50,000	1,378,098	0	446	1,378,544	(1,328,544)	
21 - ARTS COMMISSION	12,010,885	2,456,538	61,365	39,864	2,496,403	9,514,483	
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCTION COSTS	4,772,555	0	0	0	0	4,772,555	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [1227]	2,030,147	388,167	0	0	388,167	1,641,980	43
1.3.021.01.080.04 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441227]	21,000	11,386	0	0	11,386	9,614	
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.132J]	158,970	327,175	15,508	39,864	367,039	(208,069)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441327]	0	1,265	0	0	1,265	(1,265)	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT5441327.CPT5441327]	1,500,000	1,393,660	0	0	1,393,660	106,340	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA.CPT5441327]	1,903,000	334,886	45,857	0	334,886	1,568,114	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [132J]	465,213	0	0	0	0	465,213	
1.3.021.97.040.06 - ARTS:ARTS COMMISSION ALLOC CO	1,160,000	0	0	0	0	1,160,000	
23 - CITY ATTORNEY'S OFFICE	2,171,781	1,555,745	0	0	1,555,745	616,036	
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	1,555,745	0	0	1,555,745	616,036	
25 - PUBLIC UTILITIES COMMISSION SEWER	(2,925,296)	0	0	0	0	(2,925,296)	
1.3.025.09.040.02 - STS.1256: SITE UTILITIES SFPUC SEWER MAIN	(2,925,296)	0	0	0	0	(2,925,296)	
26 - PLANNING	137,062	19,493	0	3,270	22,763	114,299	
1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	19,493	0	3,270	22,763	114,299	
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	2,377,493	5,893	6,473	2,383,966	1,858,046	
1.3.028.02.040.02 - CM:CTYCO-PUBLIC UTIL COMM. (PUC)	0	4,745	0	0	4,745	(4,745)	
1.3.028.02.040.08 - PUC: FIELD OPERATIONS TUNNEL	398,400	538,067	0	0	538,067	(139,667)	

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1.3.028.02.080.04 - PUC:MTA CSP CN1252 [470465]	105,000	91,587	0	0	91,587	13,413	
1.3.028.03.040.02 - PUC:CDD CONTRACT 1300/UMS SUPPORT	606,354	101,365	0	0	101,365	504,989	
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	30,363	0	0	30,363	199,637	
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	159,610	0	2,479	162,089	109,666	
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	6,956	0	0	6,956	108,044	
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	182,520	0	409	182,929	267,353	
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	4,008	0	0	4,008	179,992	
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	0	13,472	0	663	14,135	(14,135)	
1.3.028.07.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1250	248,035	291,501	0	0	291,501	(43,466)	
1.3.028.07.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1250	74,468	113,844	0	0	113,844	(39,376)	
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1251 [445]	565,389	318,130	0	0	318,130	247,259	
1.3.028.08.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1251	266,252	289,424	0	0	289,424	(23,172)	
1.3.028.09.040.02 - PUC:CMB CONTRACT 1300/STS SUPPORT	520,077	167,165	5,893	2,921	170,086	349,991	
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	64,737	0	0	64,737	142,263	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	1,150,459	(222,794)	1,592	2,243	(220,550)	1,222,636	
1.3.032.01.080.04 - CM:DPW:1424J-BUREAU OF ENGINEERING (BOE) [AB12]	60,000	(285,405)	0	0	(285,405)	345,405	
1.3.032.03.080.04 - DPW IDC HYDRAULIC CN1300 UMS SUPPORT	297,938	1,367	180	1,083	2,450	295,488	
1.3.032.04.080.04 - DPW IDC HYDRAULIC CN1300 CTS SUPPORT	295,639	8,890	0	0	8,890	286,749	
1.3.032.05.080.04 - DPW IDC HYDRAULIC CN1300 YBM SUPPORT	301,882	21,887	1,412	0	21,887	279,995	
1.3.032.06.080.04 - DPW: BOE: 1300 DSDC	6,000	0	0	0	0	6,000	
1.3.032.08.080.04 - DPW:HYRDDPW-BOE IDC ENG SVC DC	9,000	0	0	0	0	9,000	
1.3.032.09.080.04 - DPW IDC HYDRAULIC CN1300 STS SUPPOR	180,000	30,467	0	1,160	31,627	148,373	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	6,695,348	4,605,066	42,536	76,033	4,681,099	2,014,249	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [CD12]	730,000	1,274,445	17,279	(66,843)	1,207,603	(477,603)	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [13AC12]	206,000	138,397	0	0	138,397	67,603	
1.3.034.01.080.04 - DPW:BCM LABOR [2113]	2,140,142	2,140,142	0	0	2,140,142	0	
1.3.034.06.080.04 - DPW:CONSTR:1300 CM [13CP12]	3,619,206	1,052,081	25,256	142,876	1,194,957	2,424,249	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	465,562	110,294	0	0	110,294	436,268	
1.3.036.01.080.04 - DPW:MPPG:DPW-BUREAU OF ST USE	417,129	32,680	0	0	32,680	384,449	
1.3.036.02.080.04 - DPW:MPPG:1300-DPW-BUREAU OF ST USE	0	33,084	0	0	33,084	(33,084)	
1.3.036.02.080.06 - DPW:MPPG:DPW-BUREAU OF ST USE	90,000	44,530	0	0	44,530	45,470	
1.3.036.06.080.06 - DPW:MPPG:BSM PERMIT REVIEW	39,433	0	0	0	0	39,433	
37 - DPW - PCS MATERIAL TESTING LABORATORY	83,100	0	0	0	0	83,100	
1.3.037.01.080.07 - DPW.MTL.LABDPW-MATERIAL TESTIN	83,100	0	0	0	0	83,100	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	622,474	939,987	65	0	939,987	(317,513)	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [132112]	8,621	506,858	0	0	506,858	(498,237)	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2213]	92,459	92,459	0	0	92,459	0	
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	65	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	

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1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CH13]	100,000	8,621	0	0	8,621	91,379	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	17,000	0	0	0	0	17,000	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1252 [13CE11]	18,632	16,880	0	0	16,880	1,753	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1300 [13CH11]	41,379	19,435	0	0	19,435	21,944	
46 - MACY'S WEST - SFPUC SEWER WORK	258,202	258,202	0	0	258,202	0	
1.3.046.08.040.02 - MCY.SWRC. CONTRACT: MACY'S-SEW	258,202	258,202	0	0	258,202	0	
51 - 821 HOWARD STREET	4,690,481	533,721	13,691	14,537	548,258	4,142,223	
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	4,625,481	521,248	13,650	14,246	535,495	4,089,986	
1.3.051.02.080.04 - ODC.HWRD:ODCs - TUNNEL CONTRACT 1252	10,000	1,056	0	0	1,056	8,944	
1.3.051.06.080.04 - ODC.HWRD:ODCs - STATION CONTRACT 1300	55,000	11,417	41	291	11,708	43,292	
55 - 651 BRANNAN	0	10,348	0	0	10,348	(10,348)	
1.3.055.01.080.03 - CM:ODCs - 651 BRANNAN STREET	0	10,348	0	0	10,348	(10,348)	44
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	42,373,401	26,666,925	340,576	62,916	26,729,841	15,643,560	
1.3.063.01.080.03 - CM:PM:AECOM.CS149 OM-EPC JV CS149-PM	9,507,939	5,792,638	(85,265)	25,166	5,817,804	3,690,135	45
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3B]	5,218,630	3,131,464	(127,898)	37,749	3,169,213	2,049,417	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3E]	7,000,000	7,982,813	0	0	7,982,813	(982,813)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3F]	0	2,850,099	429,288	0	2,850,099	(2,850,099)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9B]	11,042	11,042	0	0	11,042	(0)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9D]	550,000	515,694	0	0	515,694	34,306	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9E]	600,000	523,943	0	0	523,943	76,057	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9F]	0	279,288	124,452	0	279,288	(279,288)	
1.3.063.01.080.04 - FD:CM:EPC JV CS49-PM [123A]	5,579,945	5,579,945	0	0	5,579,945	0	
1.3.063.97.080.03 - AECOM.CS149 ALLOCAT CONTING	13,905,845					13,905,845	
67 - HILL INTERNATIONAL CONTRACT 156	11,000,000	1,716,199	60,649	78,542	1,794,741	9,205,259	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1336]	600,000	617,212	0	297,820	915,032	(315,032)	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1337]	9,400,000	971,726	60,649	(219,278)	752,448	8,647,552	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. [1330]	1,000,000	127,261	0	0	127,261	872,739	
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	121,445	0	0	121,445	378,555	46
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	121,445	0	0	121,445	378,555	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	1,358,950	1,916,999	12,080	(10,880)	1,906,119	(547,169)	
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	47
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	1,358,950	2,004,200	12,080	(10,880)	1,993,320	(634,370)	
72 - STATIONS - CONTRACT # CONTRACT 155-2	8,752,240	4,681,580	175,376	231,084	4,912,664	3,839,576	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	50,000	51,351	0	0	51,351	(1,351)	48
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	8,702,240	4,630,230	175,376	231,084	4,861,314	3,840,926	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	1,622,275	111,599	85,759	1,708,034	3,120,235	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1236]	90,000	89,791	0	0	89,791	209	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1334]	4,738,269	1,532,485	111,599	85,759	1,618,244	3,120,025	
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	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] March 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.081.07.040.08 - UR1.CONTRACT 1250:SITWORK:TEMPORAR	1,248,030	1,248,030	0	0	1,248,030	0	
82 - UTILITIES RELOCATION #2 (UMS) - CONTRACT 1251	20,794,582	20,794,582	0	0	20,794,582	0	49
1.3.082.08.040.01 - UR2.CONTRACT 1251:SITWORK: DEMOLIT	752,240	752,240	0	0	752,240	0	
1.3.082.08.040.02 - UR2.CONTRACT 1251:SITWORK:UTILITI	10,328,044	10,328,044	0	0	10,328,044	0	
1.3.082.08.040.03 - UR2.CONTRACT 1251:SITWORK:HAZMAT	172,712	172,712	0	0	172,712	0	
1.3.082.08.040.05 - UR2.CONTRACT 1251:SITWORK: STRUCTU	2,706,431	2,706,431	0	0	2,706,431	0	
1.3.082.08.040.06 - UR2.CONTRACT 1251:SITWORK:PEDESTRA	319,317	319,317	0	0	319,317	0	
1.3.082.08.040.07 - UR2.CONTRACT 1251:SITWORK:AUTO/BUS	190,362	190,362	0	0	190,362	0	
1.3.082.08.040.08 - UR2.CONTRACT 1251:SITWORK:TEMP FAC	6,325,476	6,325,476	0	0	6,325,476	0	
GUIDEWAY TUNNELS TOTAL	235,913,500	234,616,308	0	0	234,881,397	1,032,103	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE	233,584,015	233,357,072	0	0	233,357,072	226,943	50
1.3.083.02.010.06 - CONTRACT 1252:GUIDEWAY:UNDERGRN'D CUT	60,446,425	61,377,878	0	0	61,377,878	(931,453)	
1.3.083.02.010.07 - CONTRACT 1252:GUIDEWAY:UNDERGROUND	105,423,090	105,164,927	0	0	105,164,927	258,163	
1.3.083.02.020.03 - CONTRACT 1252: STATIONS: UNDERGROUND	21,685,000	21,685,000	0	0	21,685,000	0	
1.3.083.02.040.01 - CONTRACT 1252:SITWORK:DEMO CLEARING	2,440,000	2,440,000	0	0	2,440,000	0	
1.3.083.02.040.02 - CONTRACT 1252:SITWORK:UTILITIES & RE	10,895,000	10,487,676	0	0	10,487,676	407,324	
1.3.083.02.040.03 - CONTRACT 1252:SITWORK:HAZMAT&MITIGAT	200,000	200,000	0	0	200,000	0	
1.3.083.02.040.04 - CONTRACT 1252:SITWORK:ENVIRON. MITIG	300,000	54,292	0	0	54,292	245,708	
1.3.083.02.040.06 - CONTRACT 1252:SITWORK:PED/BIKE ACCES	50,000	50,000	0	0	50,000	0	
1.3.083.02.040.07 - CONTRACT 1252:SITWORK:AUTO/BUS ACCES	1,345,000	1,345,000	0	0	1,345,000	0	
1.3.083.02.040.08 - CONTRACT 1252:SITWORK:TEMP FACILITIE	30,799,500	30,552,299	0	0	30,552,299	247,201	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMODs	1,643,774	1,524,325	0	0	1,524,325	119,449	51
1.3.083.83.010.06 - CONTRACT 1252: CONTRACT MOD	112,251	90,918	0	0	90,918	21,334	
1.3.083.83.010.07 - CONTRACT 1252: CONTRACT MOD	1,775,627	1,775,627	0	0	1,775,627	0	
1.3.083.83.020.03 - CONTRACT 1252: CONTRACT MOD	1,004,156	953,605	0	0	953,605	50,551	
1.3.083.83.040.02 - CONTRACT 1252: CONTRACT MOD	1,031,117	817,432	0	0	817,432	213,685	
1.3.083.83.040.03 - CONTRACT 1252: CONTRACT MOD	453,475	453,475	0	0	453,475	0	
1.3.083.83.040.08 - CONTRACT 1252: CONTRACT MOD	(2,732,852)	(2,566,731)	0	0	(2,566,731)	(166,121)	
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	685,711	0	0	0	0	685,711	52
CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL	859,601,400	353,367,708	13,022,920	9,513,400	362,881,108	496,720,292	53
84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253	294,030,590	143,256,392	4,622,390	3,747,548	147,003,940	147,026,650	18
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,822,452	122,695,823	3,909,617	3,136,048	125,831,871	127,990,581	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	1,335,881	152,500	0	1,335,881	8,129,813	
1.3.084.03.040.01 - UMS.1253: DEMOLITION CLEARING	6,071,588	4,656,588	420,000	422,500	5,079,088	992,500	
1.3.084.03.040.02 - UMS.1253: SITE UTILITIES UTIL	3,971,620	1,916,351	8,250	118,000	2,034,351	1,937,269	
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	317,888	22,023	0	317,888	232,112	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	145,875	0	0	145,875	98,625	
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	12,501	0	0	12,501	6,468	
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,547,185	27,001	0	21,000	48,001	1,499,184	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	10,398,701	9,620,944	60,000	0	9,620,944	777,757	
1.3.084.03.050.02 - UMS.1253: TRAFFIC SIGNALS AND	4,773,076	2,450,000	50,000	50,000	2,500,000	2,273,076	
1.3.084.03.050.03 - UMS.1253: TRACTION POWER SUPPL	1,815,534	9,001	0	0	9,001	1,806,533	

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1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	66,038	0	0	66,038	150,919	
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	2,501	0	0	2,501	1,131,813	
84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs	191,294	111,258	12,997	0	111,258	80,036	
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	37,456	21,258	12,997	0	21,258	16,198	
1.3.084.84.020.07 - CMOD:UMS.1253: ELEVATORS, ESCALATORS	90,000	90,000	0	0	90,000	0	
1.3.084.84.040.02 - CMOD:UMS.1253: SITE UTILITIES UTIL	63,838	0	0	0	0	63,838	
1.3.084.94.020.03 - UMS.1253: AC: ALLOC CONTING	4,808,706	0	0	0	0	4,808,706	54
85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254	247,567,810	91,048,392	5,587,868	3,969,639	95,018,031	152,549,779	
1.3.085.04.010.07 - CTS.1254: GUIDEWAY: UNDERGROUND TUNNEL	76,417,579	8,982,769	3,204,000	3,562,476	12,545,245	63,872,334	
1.3.085.04.020.03 - CTS.1254: UNDERGROUND STATION	133,001,053	59,202,884	2,366,177	234,472	59,437,356	73,563,697	
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	1,000,001	0	50,000	1,050,001	5,762,855	
1.3.085.04.040.01 - CTS.1254: DEMOLITION CLEARING	400,000	400,000	0	0	400,000	0	
1.3.085.04.040.02 - CTS.1254: SITE UTILITIES UTIL	6,001,718	4,281,586	0	100,000	4,381,586	1,620,132	
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	12,500	0	0	12,500	337,500	
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	206,064	0	0	206,064	119,601	
1.3.085.04.040.06 - CTS.1254: PEDESTRIAN/BIKE	15,000	0	0	0	0	15,000	
1.3.085.04.040.07 - CTS.1254: AUTOMOBILE BUS ACCE	225,677	14,500	0	5,000	19,500	206,177	
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	15,804,762	0	0	15,804,762	766,560	
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	885,825	17,691	17,691	903,516	696,077	
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	227,500	0	0	227,500	3,836,427	
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	30,000	0	0	30,000	94,481	
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	0	0	0	0	1,658,938	
85 - CHINATOWN STATION (CTS) CMODs	2,602,458	320,489	0	0	320,489	2,281,969	55
1.3.085.85.040.01 - CMOD:CTS.1254: POWER POLE	155,956	148,212	0	0	148,212	7,744	
1.3.085.85.040.02 - CMOD:CTS.1254: SITE UTILITIES UTIL	114,570	114,570	0	0	114,570	0	
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	2,274,225	0	0	0	0	2,274,225	
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	57,707	57,707	0	0	57,707	0	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	2,322,542	0	0	0	0	2,322,542	56
86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255	158,089,000	81,651,323	1,222,253	939,349	82,590,672	75,498,328	
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	119,048,929	59,149,828	932,208	899,700	60,049,528	58,999,400	
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	804,611	165,372	0	804,611	4,528,676	
1.3.086.05.040.01 - YBM.1255: DEMOLITION CLEARING	657,000	657,000	0	0	657,000	0	
1.3.086.05.040.02 - YBM.1255: SITE UTILITIES UTIL	6,520,189	5,705,219	25,000	30,000	5,735,219	784,971	
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	1,499,572	(9)	0	1,499,572	1,129,867	
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	59,476	0	0	59,476	40,524	
1.3.086.05.040.06 - YBM.1255: PEDESTRIAN/BIKE	16,665	1	0	0	1	16,664	
1.3.086.05.040.07 - YBM.1255: AUTOMOBILE BUS ACCE	1,542,725	491,401	0	0	491,401	1,051,324	
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	12,340,798	82,000	(8,033)	12,332,765	3,231,988	
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	881,116	17,682	17,682	898,798	827,694	
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	59,800	0	0	59,800	3,648,625	
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	2,501	0	0	2,501	1,238,595	
86 - YERBA BUENA MOSCONE STATION (YBM) CMODs	(1,216,653)	252,654	0	0	252,654	(1,469,307)	

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1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	614,038	249,476	0	0	249,476	364,562	
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	(1,830,691)	3,178	0	0	3,178	(1,833,869)	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	6,216,654	0	0	0	0	6,216,654	57
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	36,188,473	1,344,063	856,864	37,045,337	102,943,663	
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (ALLOWS CRO	2,860,000	145,000	0	0	145,000	2,715,000	
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	10,274,450	412,501	97,500	0	412,501	9,861,949	
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,510,764	1,171,733	10,800	9,000	1,180,733	15,330,031	
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	2,456,871	10,000	140,000	2,596,871	4,164,219	
1.3.087.09.010.12 - STS.1256: TRACK: SPECIAL	4,449,637	2,618,600	0	0	2,618,600	1,831,037	
1.3.087.09.020.01 - STS.1256: AT-GRADE STATION	6,673,138	1,308,634	57,500	400	1,309,034	5,364,104	
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,509,893	8,011,538	422,699	493,950	8,505,488	9,004,405	
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	183,626	0	0	183,626	16,374	
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	0	0	50,000	50,000	0	
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	39,001	0	0	39,001	2,077,924	
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,850,984	10,085,823	0	15,600	10,101,423	3,749,561	
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	5,950,203	468,660	42,060	5,992,263	21,551,188	
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,485,368	2,247,477	97,604	9,454	2,256,931	2,228,437	
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,911,014	762,640	0	48,000	810,640	9,100,374	
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	750,825	135,300	48,400	799,225	5,300,450	
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	8,028,025	44,000	44,000	0	44,000	7,984,025	
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,664,586	1	0	0	1	2,664,585	
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	1,355,901	538,727	233,349	0	538,727	817,174	
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	305,378	305,378	0	0	305,378	0	
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	0	0	0	0	18,221	
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	1,032,302	233,349	233,349	0	233,349	798,953	
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	3,644,098	0	0	0	0	3,644,098	58
141 - CONSTRUCTION ADMINISTRATION	2,956,812	0	0	0	0	2,956,812	
1.3.141.97.080.04 - CONSTR.ADMIN:ALLOC CONTING	2,956,812					2,956,812	
142 - LEGAL/PERMITS	2,014,204	0	0	0	0	2,014,204	
1.3.142.01.080.06 - LGL.PRMTSF:LEGAL; PERMITS	2,014,204	0	0	0	0	2,014,204	
144 - STARTUP	8,300,329	0	0	0	0	8,300,329	
1.3.144.01.080.08 - STRT: STARTUP	6,941,907	0	0	0	0	6,941,907	
1.3.144.97.080.08 - STRTA: AC STARTUP ALLOC CONTIN	1,358,422					1,358,422	
151 - TEMPORARY LICENSE AGREEMENT	17,000	0	0	0	0	17,000	
1.3.151.01.080.06 - TEMP.LICPORARY LICENSE AGREEME	17,000	0	0	0	0	17,000	
170 - COMMUNICATIONS CONNECTIONS	5,757,629	0	0	0	0	5,757,629	
1.3.170.01.050.04 - COMM.CONNN:COMMUNICATION CONN	5,757,629	0	0	0	0	5,757,629	
181 - AON RISK INSURANCE CS 163	18,113,750	18,798,132	0	0	18,798,132	(684,382)	
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	18,088,750	18,773,132	0	0	18,773,132	(684,382)	
1.3.181.01.080.03 - AON.CS171 AON RISK INS. STUDY	25,000	25,000	0	0	25,000	0	
191 - FARE COLLECTION CONTRACTOR	5,400,000	0	0	0	0	5,400,000	
1.3.191.01.050.06 - FARE.CONsul:FARE COLLECTION	5,400,000	0	0	0	0	5,400,000	

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192 - THALES T&S CENTRAL CONTROL	487,972	50,000	0	0	50,000	437,972	
1.3.192.01.050.01 - THALES T&S ATCS	487,972	50,000	0	0	50,000	437,972	
202 - JOC2-022.0	63,938	0	0	0	0	63,938	
1.3.202.01.040.02 - JOC2-022:15&22 POTHOLING UTIL1 LGHT FNDS	63,938	0	0	0	0	63,938	
203 - JOC2-029.0	53,317	0	0	0	0	53,317	
1.3.203.07.040.02 - JOC0292-029: RELOCATE VAULTS-S	53,317	0	0	0	0	53,317	
302 - PG&E	1,988,173	2,749,912	0	0	2,749,912	(761,739)	
1.3.302.03.050.03 - PGE PERMANENT POWER UMS	(2,350,000)	0	0	0	0	(2,350,000)	
1.3.302.03.050.03 - PGE POWER FEED UMS	2,959,826	115,690	0	0	115,690	2,844,136	
1.3.302.04.050.03 - PGE PERMANENT POWER CTS	(2,350,000)	0	0	0	0	(2,350,000)	
1.3.302.04.050.03 - PGE POWER FEED CTS	2,959,826	0	0	0	0	2,959,826	
1.3.302.05.050.03 - PGE PERMANENT POWER YBM	(2,368,540)	0	0	0	0	(2,368,540)	
1.3.302.05.050.03 - PGE POWER FEED YBM	3,125,222	2,634,222	0	0	2,634,222	491,000	
1.3.302.09.050.03 - PGE POWER FEED STS	11,839	0	0	0	0	11,839	
331 - BAY AREA RAPID TRANSIT (BART)	951,356	60,455	0	0	60,455	890,901	
1.3.331.01.080.04 - CM:SFMTA LABOR-ENG SVCS-IRP/BART/SF	0	33,152	0	0	33,152	(33,152)	
1.3.331.01.080.06 - CM: BAY AREA RAPID TRANSIT (BART) [122A]	951,356	27,304	0	0	27,304	924,052	
333 - AMERICAN PUBLIC TRANSP. ASSOCIATION (APTA) CS-APTA	146,500	54,612	0	0	54,612	91,888	
1.3.333.01.080.03 - APTA:APTA - IRP [2G]	46,500	27,304	0	0	27,304	19,196	
1.3.333.01.080.03 - APTA:APTA - IRP [2C]	100,000	27,308	0	0	27,308	72,692	
334 - BART FARE COLLECTION SYSTEM	700,000	0	0	0	0	700,000	
1.3.334.01.050.06 - BART:BART FARE COLLECTION EQP	700,000	0	0	0	0	700,000	
401 - ECONOMIC AND WORKFORCE DEVELOPMENT (EWD)	17,600	17,600	0	0	17,600	0	
1.3.401.01.080.04 - EWD: MAYORS OFFICE ECON DEV	17,600	17,600	0	0	17,600	0	
402 - DEPARTMENT OF TECHNOLOGY	242,371	237,534	0	0	237,534	4,837	
1.3.402.07.050.04 - DT:1UTL:COMM. CONNECTIONS	166,756	166,179	0	0	166,179	577	
1.3.402.08.050.04 - DT:2UTL:COMM.CONNECTIONS	75,615	71,354	0	0	71,354	4,261	
404 - DEPARTMENT OF BUILDING INSPECTION (DBI)	1,204,081	1,204,081	0	0	1,204,081	0	
1.3.404.01.080.06 - DPT OF BUILDING INSPECTION	1,204,081	1,204,081	0	0	1,204,081	0	
491 - FORM B - REIMBURSEMENT	(12,227,954)	0	0	0	0	(12,227,954)	
1.3.491.02.040.02 - FORMB - CONTRACT 1252 UTILITY REIMBUR	(254,050)	0			0	(254,050)	59
1.3.491.03.040.02 - FORMB - UMS:CONTRACT 1300 UTILITY REIMBURSEMENT	(528,370)	0			0	(528,370)	60
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEMENT	(451,703)	0			0	(451,703)	61
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEMENT	(100,000)	0			0	(100,000)	62
1.3.491.07.040.02 - FORMB - CONTRACT 1250 UTILITY REIMBUR	(2,275,419)	0			0	(2,275,419)	64
1.3.491.08.040.02 - FORMB - CONTRACT 1251 UTILITY REIMBUR	(7,618,412)	0			0	(7,618,412)	65
1.3.491.09.040.02 - FORMB - STS:CONTRACT 1300 UTILITY REIMBURSEMENT	(1,000,000)	0			0	(1,000,000)	66
TOTAL CONSTRUCTION PHASE	1,328,140,481	714,360,444	14,253,244	10,606,243	725,332,696	602,777,559	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES RFP [34B]	1,325,000	1,319,773	0	0	1,319,773	5,227	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES PROJECT MGT [68E]	827,132	827,431	0	0	827,431	(299)	
1.4.091.01.070.01 - LRVS: LRV PROCUREMENT ODC	25,000	0	0	0	0	25,000	
1.4.091.01.070.01 - LRVS: LRV PROCUREMENT	11,131,868	0	0	0	0	11,131,868	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] March 2016 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	13,076,653					13,076,653	21
TOTAL VEHICLES	26,385,653	2,147,204	0	0	2,147,204	24,238,450	
1.5.015.01.060.01 - RE: EASEMENT ACQUISIT	400,000	322,939	0	0	322,939	77,061	
1.5.015.01.060.01 - RE: REAL EST SITE ACQ	16,523,400	14,307,667	0	0	14,307,667	2,215,733	
1.5.015.01.060.01 - RE: REAL ESTATE	750,000	766,272	0	0	766,272	(16,272)	
1.5.015.01.060.01 - RE: REC & PARK MOU	6,987,624	6,987,624	0	0	6,987,624	0	
1.5.015.01.060.01 - RE:-DEPT OF TRANSPOR	2,686,000	2,686,000	0	0	2,686,000	0	
1.5.015.01.060.01 - RE:-LICENSES FEES	400,000	381,311	0	0	381,311	18,689	
1.5.015.97.060.01 - RE:A:AC: RE: REAL ESTATE ALLO	5,265,478					5,265,478	
1.5.023.01.060.01 - ATTY:REAL ES	2,212,882	2,678,858	0	0	2,678,858	(465,976)	
1.5.101.01.060.02 - RES.RELO: RELOCATION COST	1,275,200	1,289,701	0	0	1,289,701	(14,501)	
1.5.102.01.060.02 - COMM.RELO-RELOC COMMERCIAL	905,311	1,119,729	0	0	1,119,729	(214,418)	
TOTAL ROW, LAND, EXISTING IMPROVEMENTS	37,405,895	30,540,101	0	0	30,540,101	6,865,794	
90 - CONTINGENCY	80,150,845					80,150,845	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	24,749,924					24,749,924	67
TOTAL ALLOCATED CONTINGENCY	55,400,921					55,400,921	
TOTAL PROJECT COST	1,578,300,001	907,951,763	14,253,244	10,606,243	918,869,527	659,400,249	

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

7.4 Contingency Management Trend Report

15	In Oct 2014 Report, updated Contract 1250 contract cost to segregate contract amount and contract modification amount. Note that September 2013 Supplemental Authorized Contingency "column f" did not include completed contract.
16	In Oct 2014 Report, updated Contract 1251 contract cost to segregate contract amount and contract modification amount. Note that September 2013 Supplemental Authorized Contingency "column f" did not include completed contract.
17	Contract 1252 Original Contract Value "column a" and Original Contingency "column f" did not match September 2013 Supplemental due to Supplemental were used the revised value to reflect Contract Modifications #3-#18. Reduced Contract 1252 contingency to reflect CMod #20 for retrieval shaft relocation cost \$5.15M funded by CPT690, CMod #40 for Culvert, Street & Sidewalk Restoration cost \$694,651 funded by Traffic Effectiveness Project (TEP), and CMod #41 for install 24" Water Main in North Beach cost \$328,860 funded by SFPUC. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2106 report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS. CMod#49, #52 and #53 total \$221,967 are funded by CPS. CMod#51 Support for North Beach Restoration, OCS and Streetlighting cost of \$155,468 is being funded by TEP. Released \$155,468 CN1252 allocated contingency to program's unallocated contingency.
18	BART Elevator scope and SFPUC Sewer Main scope is in Contract 1300; effort will be funded by BART. In January 2015 Report, corrected Station Contract value to match awarded amount.
19	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718. The \$75,000 has been transferred to program's unallocated contingency.
20	In April 2015 report, real estate budget stated in RAMP Rev5 is \$36.7M, including \$1M contingency. The cost workbook ROW & contingency budget reflects this with \$36,511,799 and \$1,000,000 respectively. Revised costbook ROW budget & contingency to be \$37,511,799. The \$4,265,478 Caltrans lease savings is allocated to ROW allocated contingency.
21	In Dec 2014 Report, redistributed LRV budget to reflect recent firm bid cost per vehicle (\$3,327,250/unit) from vehicle procurement contract award. (SFMTA Board meeting 15JUL14, calendar item #11). Vehicle line item total budget remains unchanged, redistributed fund by reducing base amount to \$13,309,000, column "c" and increased allocated contingency column "h", by same amount.
22	In Oct 2014 Report, made two corrections: i) revised Professional Services, Original Contract Value "column a" from \$310,518,041 to \$310,618,041, ii) revised Original Congency. "column f" unallocated contingency from \$3,883,481 to \$3,845,945. In April 2015 report, used \$500K program contingency for CS-175 Bayland Soil Process contract. In August 2015 Report, added \$15M from Contract 1252. In March 2016 Report, the \$155,468 costs funded by other project offset credits and \$75K funded by CPT718 added to program's unallocated contingency.
23	The total Central Subway Project budget of \$1.578 billion, based on the October 2012 FFGA with the FTA, is the primary MPR report reference.
24	Estimate at Completion is shown at Column "e".
25	Estimate at Completion vs. Budget variance is shown at Column "k".

7.5 Contract Modification/Trend Log - Contract 1300 Stations

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

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

7.9 Detail Monthly Expenditure Report

Phase 1 Preliminary Engineering

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

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

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

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

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

Appendix B

DETAIL SCHEDULE REPORTS

SCHEDULE HIGHLIGHTS

The Master Project Schedule (MPS) below includes progress through March 2016. The March 2016 Schedule Update submittal from Contract 1300 Contractor is rejected due to incorrect schedule logic. The Contract 1300 schedule represented in this report is based on the SFMTA March 2016 Schedule Update. The Program is continuing to working with the CN-1300 Contractor to mutually agree on Actual Dates for work performed.

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

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

Schedule Contingency is fully utilized on the critical path of the MPS, which is below the Minimum Schedule Contingency level of 6 months. A schedule re-evaluation will be performed, utilizing the updated Contract 1300 Schedule. Recovery options are being implemented in key areas as work proceeds. SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. The Contractor, Tutor Perini Corporation's (TPC) March 2016 schedule has maintained their projected Substantial Completion Date in their last three schedule updates, but more recovery efforts are required to meet schedule goals.

Contract 1300 Contractor submitted sixteen (16) Schedule Updates from December 2014 to March 2016. SFMTA rejected seven (7) Schedule Updates from September 2015 to March 2016. Contractor has been directed to develop a Recovery Schedule as required by Contract and correct out-of-sequence and Retained Logic driving many of the forecast dates. Review of schedule updates as well as identifying recovery options is ongoing.

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

The Contractor, Tutor Perini Corporation's (TPC) baseline schedule is incorporated into the master program. The preliminary SFMTA Contract 1300 March 2016 schedule is used in March Report. The SFMTA Contract 1300 March 2016 schedule is based on the approved baseline schedule logic with adjustments made for fixing Retained Logic and lags. The SFMTA is developing their own Contract 1300 as-built schedule update for the purpose of evaluating time impacts. SFMTA is planning to meet with the Contract 1300 Contractor to mutually agree on these monthly as-built schedules as a record of actual progress. It will take partnering effort with the Contractor, Tutor Perini Corporation's (TPC) to validate the prior 32 SFMTA monthly as-built schedules (JUN13 thru FEB16). The SFMTA will continue to use their Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of SFMTA scheduling concerns.

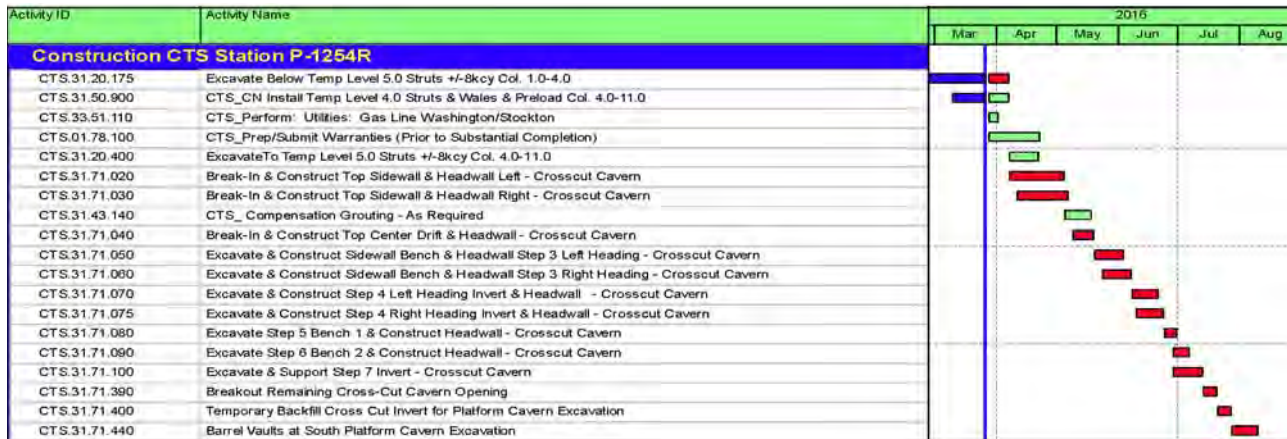
Work Package P-1254R (CTS) has performed the following work this month:

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

- Utility demolition
- Headhouse: Install Temp level 4.0 Struts and excavate to Temp level 5.0 Struts
- Crosscut Cavern: complete barrel vault piping
- Complete water distribution

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

- North Access: Start SEM shaft excavation
- Finish level 4 bracing
- Crosscut Cavern: grout barrel vaults
- Finish service connection to brick sewer Washington Street to Clay Street
- Form and pour, pour 3 of the composite wall
- Brick sewer slip line and connections



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

- Traffic Handling – Stockton Street closure between Geary and Ellis, no southbound lane on Stockton between Post and Geary.
- North Concourse: Continued preconditioning compensation grout pipes. Completed backfill of electrical conduit; chipped beams to expose piles; installed shear studs on the concourse level
- Platform Station: Drilled and installed jet grout columns; installed sheet piles for excavation support and performed continued chipping for north headwall demolition. Excavation for roof deck 5B-11 encountered asbestos pipe and removal began
- UMS Garage: Completed demolition of the plaza level; Completed tieback installation; Continue work on shear walls between new ramp and Stockton Street

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

- North Concourse: Complete installation of PG&E electric line and cut over one service connection on the east side. Backfill and install paving. Below deck: precondition compensation grout pipes. Chip beams and expose piles. Install shotcrete leveling course.
- Platform Station: Install excavation support for roof deck section 5B-11R. Chip/expose/repair piles, set/weld deck beams, and install steel decking and studs. Continue installing jet grout columns.
- South Concourse: Excavate/grade for concourse invert slab, chip/prepare piles for stub beams and vertical drain slot, fine grade/install base and slab drain pipes, form and pour mud slab. Install waterproofing.
- Ellis Annex: Remove and replace seismic joint, water test seismic joint, install waterproofing, grout protection course and lightweight concrete.
- UMS Garage: Continue and complete demolition at Levels 2 and Level 3; commence underpinning work

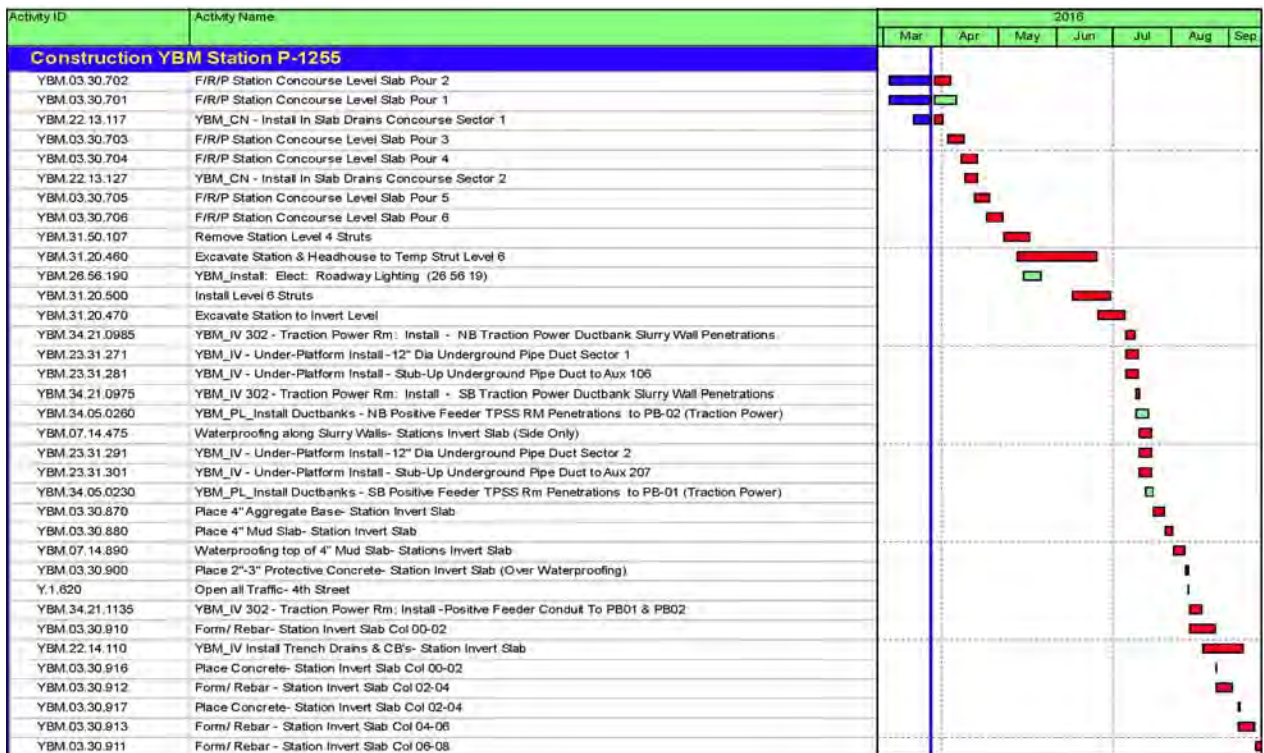
Activity ID	Activity Name	2016					
		Mar	Apr	May	Jun	Jul	Aug
Construction UMS Station P-1253							
Drilled Shafts							
Compensation Grouting							
UMS 31.43.290.2b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens Sta 132+34 to 132+70						
UMS 31.43.300.2b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Womens Sta 132+34 to 132+70						
UMS 31.43.290.3b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens Sta 132+70 to Sta 133+06						
UMS 31.43.300.3b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Womens Sta 132+70 to 133+06						
UMS 31.32.0070	UMS_Jet Grout Under South Wall Footings - USG						
UMS 31.32.0220	UMS_Jet Grout 90 Day Cure Period - USG						
UMS 31.43.300.1b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Womens Sta 131+98 to 132+34						
UMS 31.43.290.1b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens Sta 131+98 to 132+34						
UMS 31.43.720.2a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Nieman Marcus Sta 131+26 To 131+62						
UMS 31.43.740.2a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Luis Vitton Sta 131+26 To Sta 131+62						
UMS 31.43.720.3a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Nieman Marcus Sta 131+62 To 131+98						
UMS 31.43.740.3a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Luis Vitton Sta 131+62 To 131+98						
UMS 31.43.720.1a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Nieman Marcus No. Headwall To Sta 131+26						
UMS 31.43.740.1a	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Luis Vitton No. Headwall to Sta 131+26						
UMS 31.43.290.4b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Mens Sta 133+06 to 133+44						
UMS 31.43.300.4b	UMS_Install Compensation Grouting Tubes North of O'Farrell St - Macy's Womens Sta 133+06 to 133+44						
UMS 31.43.280.4a	UMS_Install Compensation Grouting Tubes - South of O'Farrell St - Barney's of NY So. Headwall to Sta 134+26						
UMS 31.43.310.4a	UMS_Install Compensation Grouting Tubes - South of O'Farrell St - Crate & Barrel So. Headwall to Sta 134+26						
Demolition							
UMS 31.50.0040	UMS_Install Bracing & Shoring for Walls & Slabs						
UMS 02.41.0150	UMS_Demo South Entrance For BART Elevator Powell St Station						
UMS 02.41.430	UMS_Complete Demo South Headwall						
UMS 02.41.0440	UMS_Complete Demo North Headwall						
Roof Deck Excavation, Construction, Restoration							
Excavation & Support							
UMS 31.20.0680	UMS_Excavate Platform Box Bench For Wales & Struts - Concourse Level Sta 132+50 to North Headwall						
UMS 31.41.0240	UMS_Install Sheet Piles @ Access Shaft #2 (O'Farrell)						
UMS 31.20.1365	UMS_Shore Tunnel and ready for break in- Sta 132+50 To North Headwall						
UMS 31.50.0250	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)						
UMS 31.50.0280	UMS_Install Temporary Lid @ Access Shaft #2 (O'Farrell)						
UMS 31.50.0560	UMS_Install Spiling @ Access Shaft #2 & Excavate to Pile Face						
UMS 31.20.0710	UMS_Break Through Battered Piles & Frame Construction Access #2						
UMS 31.20.0660	UMS_Complete Excavate South Concourse to Invert						
UMS 31.50.795	UMS_Install Bracing in Existing Tunnels						
UMS 05.12.0690	UMS_Install Permanent Wales - Concourse Level Sta 132+50 To North Headwall						
UMS 31.20.0685	UMS_Excavate Platform Box Bench For Wales & Struts - Concourse Level Sta 132+50 to South Headwall						

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

- Two lanes of traffic flowing on 4th Street with work area closed on east side of the street for installation of water and sewer utilities.
- Station box level 4 temporary bracing installation is in progress beneath Mezzanine level; excavation for Concourse level slab is in progress below level 4 bracing.
- Temporary bracing is being installed within tunnel to provide support during installation of Concourse level beams and slab.
- Headhouse level 4 temporary bracing installation has begun.
- Archaeological monitoring by spot checking is in progress

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

- Continue excavation and temporary bracing installation in headhouse and station box, including excavation to allow Concourse level slab installation
- Concourse level concrete pour 1 of 3
- Install in slab drains Concourse sector 1
- Continue utility installation on 4th Street north of the north headwall and on Folsom Street



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

- Continue Muni ductbank installation
- Continue 78" sewer rehabilitation
- Continue 36" sewer force main
- Continue Auxiliary Water Supply System (AWSS) installation
- Continue water line work
- Continue AT&T cutover
- Continue tunnel prep work
- Continue OCS pole foundation installation

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

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



SCHEDULE REVISIONS

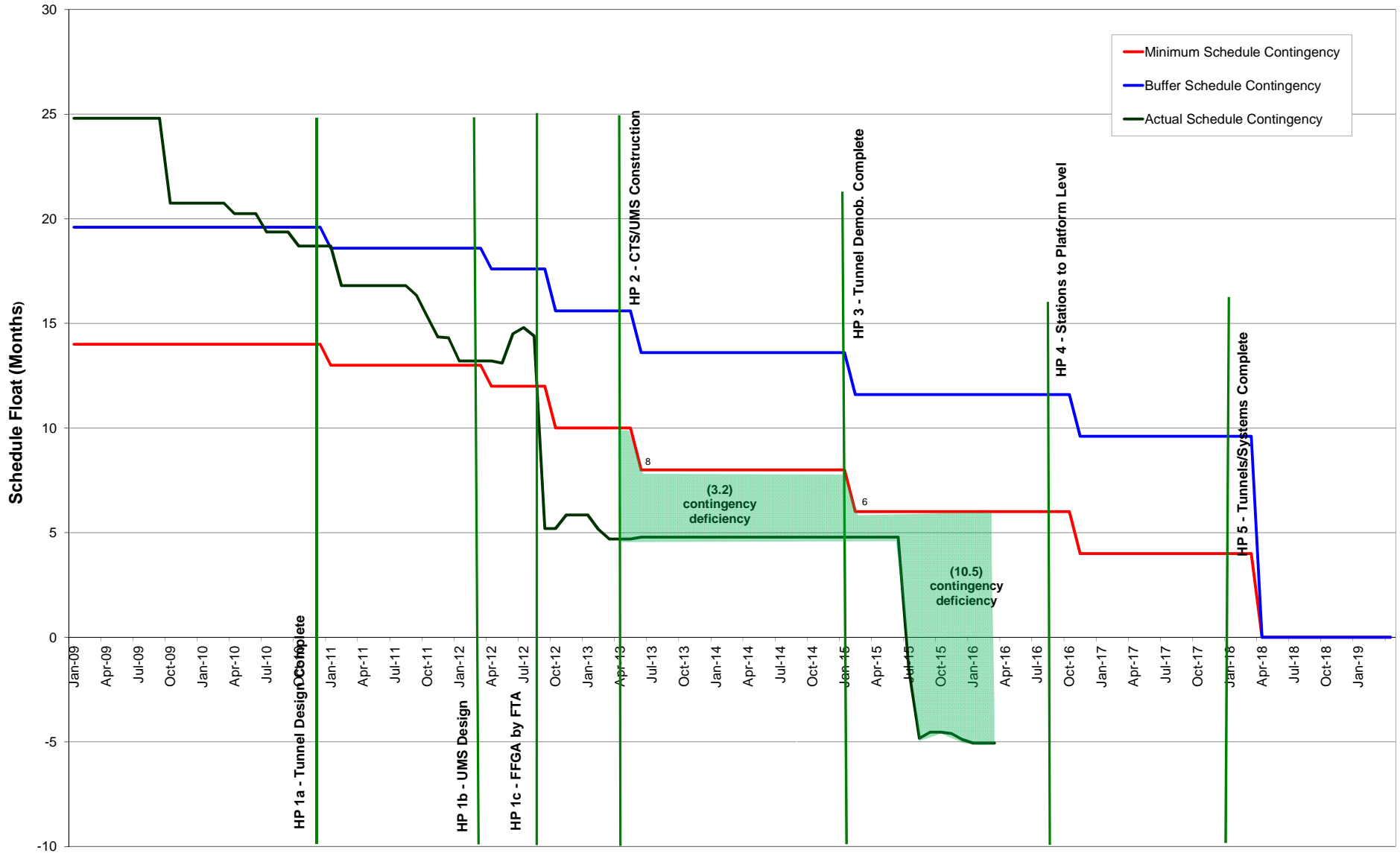
The SFMTA Contract 1300 March 2016 schedule update was added this period to the Central Subway Project Master Schedule.

LIST OF SCHEDULE REPORTS

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

CENTRAL SUBWAY PROJECT Schedule Contingency Drawdown

March 2016



Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
CENTRAL SUBWAY PROJECT		4057	06/03/03 A	05/29/19	CENTRAL SUBWAY PROJECT																			
Program Level Milestones		4166	06/03/03 A	05/29/19	Program Level Milestones																			
PJD1000	Central Subway Project Start	0	06/03/03 A																					
MS0004A	Tunnel Excavation Complete - Project Milestone #4A	0		09/05/14 A	Milestone #4A																			
MS0019	Baseline Finish Date: 12-26-2018	0		05/29/19*																◆ Baseline Finish Date: 12-26-2018				
MS0009	CSP Revenue Service Date	0		05/29/19*																◆ CSP Revenue Service Date				
Preliminary Engineering Phase		2661	06/03/03 A	01/07/10 A																				
Final Design		1811	01/08/10 A	06/17/13 A																				
Light Rail Vehicles		2005	04/15/13 A	10/10/18																Light Rail Vehicles				
Real Estate		3130	08/01/08 A	03/31/16	Real Estate																			
Construction Phase		2367	01/04/10 A	05/29/19	Construction Phase																			
Construction Support and Costs		2671	01/04/10 A	05/02/19	Construction Support and Costs																			
Construction Utility Contract #1- MOS & Portal CN-1250		505	01/04/10 A	05/23/11 A																				
Construction Utility Contract #2 - UMS CN-1251		643	01/12/11 A	10/15/12 A																				
Construction Tunnels CN-1252		1415	06/08/11 A	04/01/16	Construction Tunnels CN-1252																			
Construction CN-1300		1439	06/03/13 A	03/11/19	Construction CN-1300																			
CN- 1300 Milestone		1439	06/17/13 A	03/11/19	CN- 1300 Milestone																			
Construction UMS Station P-1253		1381	06/17/13 A	12/12/18	Construction UMS Station P-1253																			
Construction CTS Station P-1254R		1381	06/17/13 A	12/12/18	Construction CTS Station P-1254R																			
Construction YBM Station P-1255		1381	06/10/13 A	12/12/18	Construction YBM Station P-1255																			
Construction STS P-1256		1439	06/03/13 A	03/11/19	Construction STS P-1256																			
Project Start Up		115	12/11/18	05/29/19																Project Start Up				
Unallocated Contingency		115	12/11/18	05/29/19																Unallocated Contingency				
CO1.700	Cost Activity Unallocated Contingency (LOE) - 1.7.500.99.090.00 - Contingency	115	12/11/18	05/29/19	Cost Activity Unallocated Contingency (LOE)																			

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016		2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CENTRAL SUBWAY PROJECT						792	02/01/16 A	05/29/19	-106																
Program Level Milestones						115	12/11/18	05/29/19	-106																
HidPt5	Systems Complete	0		12/11/18	-106																				
MS0019	Baseline Finish Date: 12-26-2018	0		05/29/19*	-106																				
MS0009	CSP Revenue Service Date	0		05/29/19*	-106																				
Construction Phase						792	02/01/16 A	05/29/19	-106																
Construction CN-1300						736	02/01/16 A	03/11/19	-165																
CN- 1300 Milestone						59	12/11/18	03/11/19	-165																
BUF1017	STS Buffer Float- (0)	0	12/11/18	12/11/18	-106																				
STS1500	CN 1300 Substantial Completion	0		12/11/18	-153																				
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		12/11/18*	-304																				
C.Punch	Closeout Punchlist/Remaining Work	90	12/12/18	03/11/19	-304																				
MS-20	Final Completion - 1,790 Calendar Days (SP-4C)	0		03/11/19*	-304																				
Construction CTS Station P-1254R						699	02/01/16 A	12/11/18	-217																
CTS.31.20.175	Excavate Below Temp Level 5.0 Struts +/-8kcy Col. 1.0-4.0	5	02/01/16 A	04/06/16	-216																				
CTS.31.71.020	Break-In & Construct Top Sidewall & Headwall Left - Crosscut Cavern	20	04/07/16	05/04/16	-216																				
CTS.31.71.030	Break-In & Construct Top Sidewall & Headwall Right - Crosscut Cavern	20	04/08/16	05/05/16	-216																				
CTS.31.71.040	Break-In & Construct Top Center Drift & Headwall - Crosscut Cavern	9	05/06/16	05/18/16	-216																				
CTS.31.71.050	Excavate & Construct Sidewall Bench & Headwall Step 3 Left Heading - Crosscut Cavern	10	05/19/16	06/02/16	-216																				
CTS.31.71.060	Excavate & Construct Sidewall Bench & Headwall Step 3 Right Heading - Crosscut Cavern	10	05/23/16	06/06/16	-216																				
CTS.31.71.070	Excavate & Construct Step 4 Left Heading Invert & Headwall - Crosscut Cavern	10	06/07/16	06/20/16	-216																				
CTS.31.71.075	Excavate & Construct Step 4 Right Heading Invert & Headwall - Crosscut Cavern	10	06/09/16	06/22/16	-216																				
CTS.31.71.080	Excavate Step 5 Bench 1 & Construct Headwall - Crosscut Cavern	5	06/23/16	06/29/16	-216																				
CTS.31.71.090	Excavate Step 6 Bench 2 & Construct Headwall - Crosscut Cavern	5	06/28/16	07/05/16	-216																				
CTS.31.71.100	Excavate & Support Step 7 Invert - Crosscut Cavern	10	06/28/16	07/12/16	-216																				
CTS.31.71.390	Breakout Remaining Cross-Cut Cavern Opening	5	07/13/16	07/19/16	-216																				
CTS.31.71.400	Temporary Backfill Cross Cut Invert for Platform Cavern Excavation	5	07/20/16	07/26/16	-216																				
CTS.31.71.440	Barrel Vaults at South Platform Cavern Excavation	10	07/27/16	08/09/16	-216																				
CTS.31.71.450	Breakin Top Benches for South Platform Cavern Excavation	13	08/10/16	08/26/16	-216																				
CTS.31.71.465	Excavate & Support Top Left Heading South Platform Cavern 176Lf	20	08/29/16	09/26/16	-216																				
CTS.31.71.460	Excavate & Support Top Right Heading South Platform Cavern 176Lf	20	08/29/16	09/26/16	-216																				
CTS.31.71.550	Excavate & Support Top Right Bench South Platform Cavern 176Lf	10	09/27/16	10/10/16	-216																				
CTS.31.71.560	Excavate & Support Top Left Bench South Platform Cavern 176Lf	10	09/27/16	10/10/16	-216																				
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	10/11/16	10/28/16	-216																				
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf	14	10/11/16	10/28/16	-216																				
CTS.31.71.590	CTS- Install Temporary Bracing - Sidewalls (Platform Cavern)	6	10/31/16	11/07/16	-216																				
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	11/08/16	12/06/16	-216																				
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	12/07/16	12/21/16	-216																				
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	12/22/16	01/06/17	-216																				
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	01/09/17	01/20/17	-216																				
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	01/23/17	01/27/17	-216																				
CTS.31.71.650	Break-in Crossover Cavern	1	01/30/17	01/30/17	-216																				
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	01/31/17	04/17/17	-216																				
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	01/31/17	04/17/17	-216																				
CTS.31.71.680	Install Temporary Support Struts	10	04/18/17	05/01/17	-216																				
CTS.31.71.690	Install Ramp For Center Drift	2	05/02/17	05/03/17	-216																				
CTS.31.71.700	Excavate & Support Center Drift	35	05/04/17	06/22/17	-216																				
CTS.31.71.710	Remove Crossover Excavation Ramp	2	06/23/17	06/26/17	-216																				

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016				2017				2018				2019				2020				2021		
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	06/27/17	07/11/17	-216									■ Excavate & Support Center Bench - Crossover														
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	07/12/17	07/20/17	-216									■ Excavate & Construct Invert - Crossover														
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	07/21/17	08/03/17	-216									■ Demo Sidewalls, Repair Headwall & Top Joint - Crossover														
CTS.31.71.750	Repair Invert Joint - Crossover	10	08/04/17	08/17/17	-216									■ Repair Invert Joint - Crossover														
CTS.31.74.700	Place Smoothing Concrete - Final Lining invert - Crossover Cavern	15	08/18/17	09/05/17	-260									■ Place Smoothing Concrete - Final Lining invert - Crossover Cavern														
CTS.31.74.705	Install Waterproofing - Final Lining invert - Crossover Cavern	15	09/06/17	09/22/17	-260									■ Install Waterproofing - Final Lining invert - Crossover Cavern														
CTS.31.74.715	Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern	20	09/23/17	10/16/17	-260									■ Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern														
CTS.31.74.710	Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern	6	10/17/17	10/23/17	-260									■ Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern														
CTS.31.74.725	Place Concrete - Final Lining invert - Crossover Cavern	20	10/17/17	11/08/17	-260									■ Place Concrete - Final Lining invert - Crossover Cavern														
CTS.31.74.960	Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern	5	10/24/17	10/28/17	-260									■ Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern														
CTS.31.74.970	Install Rebar - Final Lining Invert -Cross Cut Cavern	10	10/30/17	11/09/17	-260									■ Install Rebar - Final Lining Invert -Cross Cut Cavern														
CTS.31.74.980	Place Concrete - Final Lining Invert -Cross Cut Cavern	10	11/10/17	11/22/17	-260									■ Place Concrete - Final Lining Invert -Cross Cut Cavern														
CTS.31.74.990	Install Waterproofing - Final Lining Arches - Crosscut Cavern	15	11/23/17	12/12/17	-260									■ Install Waterproofing - Final Lining Arches - Crosscut Cavern														
CTS.31.74.10	Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern	15	12/01/17	12/18/17	-260									■ Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern														
CTS.31.74.350	Shotcrete Final Lining Arches - Crosscut Cavern	20	12/12/17	01/05/18	-260									■ Shotcrete Final Lining Arches - Crosscut Cavern														
CTS.03.30.760	Shore/Rebar/Form Pour Track Slab - Crosscut Cavern	15	01/08/18	01/26/18	-217									■ Shore/Rebar/Form Pour Track Slab - Crosscut Cavern														
CTS.03.30.780	Rebar/Form/ Pour Platforms - Crosscut Cavern	20	01/22/18	02/16/18	-217									■ Rebar/Form/ Pour Platforms - Crosscut Cavern														
CTS.03.30.770	Shore/Rebar/Form Pour Concourse Level Slab - Crosscut Cavern	15	02/05/18	02/23/18	-217									■ Shore/Rebar/Form Pour Concourse Level Slab - Crosscut Cavern														
CTS.09.83.664	CTS_PL 05 Spray - Set Up Scaffold- Platform Level	5	02/26/18	03/02/18	-217									■ CTS_PL 05 Spray - Set Up Scaffold- Platform Level														
CTS.09.83.544	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster NB - Sector 2	6	03/05/18	03/12/18	-217									■ CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster NB - Sector 2														
CTS.09.83.554	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster SB - Sector 2	6	03/13/18	03/20/18	-217									■ CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster SB - Sector 2														
CTS.34.21.122	CTS_PL Station Platform: Install - Traction Power Box PS01 @ SB Track - Sec	3	03/21/18	03/23/18	-217									■ CTS_PL Station Platform: Install - Traction Power Box PS01 @ SB Tra														
CTS.34.05.160	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS05 (Traction Power)	5	03/26/18	03/30/18	-217									■ CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS05 (Tracti														
CTS.34.05.170	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS07 (Traction Power)	5	04/02/18	04/06/18	-217									■ CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS07 (Tracti														
CTS.34.05.180	CTS_PL_Install:Conduit SB Positive Feeder Box PS02 to PS08 (Traction Power)	5	04/09/18	04/13/18	-217									■ CTS_PL_Install:Conduit SB Positive Feeder Box PS02 to PS08 (Tract														
CTS.03.46.980	CTS_PL Station Platform: Install - GFRC Perforated Wall Panel System SB - 5	15	04/16/18	05/04/18	-217									■ CTS_PL Station Platform: Install - GFRC Perforated Wall Panel Sys														
CTS.03.46.164	CTS_PL Station Platform: Install - GFRC Perforated Ceiling Panels - Sector 2	15	05/07/18	05/25/18	-217									■ CTS_PL Station Platform: Install - GFRC Perforated Ceiling Panel														
CTS.14.31.265	Set Escalator Trusses 1 & 2 (Concourse to Platform) - Crosscut	2	05/28/18	05/29/18	-217									■ Set Escalator Trusses 1 & 2 (Concourse to Platform) - Crosscut														
CTS.14.31.275	CTS_PL Assemble Components Escalator #1	15	05/30/18	06/19/18	-217									■ CTS_PL Assemble Components Escalator #1														
CTS.14.31.415	CTS_PL Assemble Components Escalator #2	15	06/20/18	07/10/18	-217									■ CTS_PL Assemble Components Escalator #2														
CTS.09.66.616	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Flooring Sector 2	5	07/11/18	07/17/18	-217									■ CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo F														
CTS.09.66.618	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Cove Base Sect	5	07/18/18	07/24/18	-217									■ CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo C														
CTS.09.66.620	CTS_PL Station Platform Cross-Cut Cavern: Grind & Polish - Terrazzo Floorin	10	07/25/18	08/07/18	-217									■ CTS_PL Station Platform Cross-Cut Cavern: Grind & Polish -														
CTS.14.24.255	CTS-PL 05: Assemble Elevator #1	15	08/08/18	08/28/18	-217									■ CTS-PL 05: Assemble Elevator #1														
CTS.14.24.265	CTS-PL 05: Assemble Elevator #2	15	08/29/18	09/18/18	-217									■ CTS-PL 05: Assemble Elevator #2														
CTS.14.24.275	CTS-PL 05: Install Elevator Power & Controls	10	09/19/18	10/02/18	-217									■ CTS-PL 05: Install Elevator Power & Controls														
CTS.08.44.265	CTS_PL Install Elevators 1 & 2 Glass Enclosure - Crosscut Platform Level	10	09/19/18	10/02/18	-217									■ CTS_PL Install Elevators 1 & 2 Glass Enclosure - Crosscut														
CTS.08.44.580	Install Elevators 1 & 2 Glass Enclosure - Crosscut Concourse Level	10	09/19/18	10/02/18	-217									■ Install Elevators 1 & 2 Glass Enclosure - Crosscut Concou														
CTS.14.24.285	CTS-PL 05: Startup & Test Elevators 1&2	5	10/03/18	10/09/18	-217									■ CTS-PL 05: Startup & Test Elevators 1&2														
CTS.14.24.295	CTS-PL 05:Inspections - Elevators 1&2	1	10/10/18	10/10/18	-217									■ CTS-PL 05:Inspections - Elevators 1&2														
CTS.01.80.00	CTS- Building Systems Start-up & Testing	44	10/11/18	12/11/18	-217									■ CTS- Building Systems Start-up & Testing														
Project Start Up		115	12/11/18	05/29/19	-106																							
STU1010	S&S Certification / Pre-Revenue Activities	115	12/11/18	05/29/19	-106									■ S&S Certification / Pre-Revenue Activities														
BUF0018	Muni Float	0	05/29/19	05/29/19	-106									■ Muni Float														

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CENTRAL SUBWAY PROJECT	1949	06/08/11 A	03/11/19																																
Construction Phase	1949	06/08/11 A	03/11/19																																
Construction Tunnels CN-1252	1799	06/08/11 A	05/15/15 A																																
1252 Tunnel Contract BIH	1799	06/08/11 A	05/15/15 A																																
Contract Milestones	1437	06/08/11 A	05/15/15 A																																
General Conditions	1752	08/01/11 A	05/15/15 A																																
4th & Bryant St TBM Launch Box Construction	686	03/30/12 A	06/02/14 A																																
Moscone Station Headwalls	430	05/14/12 A	09/20/13 A																																
UMS Station Headwalls	425	07/24/12 A	11/22/13 A																																
UMS - Remove Geary to Ellis OCS	5	07/24/12 A	07/26/12 A																																
UMS - Setup Traffic Control for Headwall Construction	1	07/30/12 A	07/30/12 A																																
North Headwall	237	02/27/13 A	11/22/13 A																																
South Headwall	404	07/31/12 A	11/22/13 A																																
4th St and Market Compensation Grouting	707	01/28/13 A	04/30/15 A																																
Southbound Tunneling	451	04/27/13 A	10/13/14 A																																
Ellis St Compensation Grouting	561	07/31/12 A	05/09/14 A																																
Green St Compensation Grouting	320	08/05/13 A	06/30/14 A																																
Retrieval Shaft	1070	10/31/11 A	03/20/15 A																																
Cross Passage 1-5	339	03/22/14 A	04/16/15 A																																
Cross Passage 1	79	06/14/14 A	09/13/14 A																																
Cross Passage 2	105	05/10/14 A	09/09/14 A																																
Cross Passage 3	127	03/31/14 A	08/28/14 A																																
Cross Passage 4	114	03/22/14 A	07/31/14 A																																
Cross Passage 5	277	05/31/14 A	04/16/15 A																																
Portal Structure	196	09/02/14 A	04/15/15 A																																
Contract Close Out	307	03/03/14 A	05/15/15 A																																
Construction CN-1300	1439	06/03/13 A	03/11/19																																
CN- 1300 Milestone	1439	06/17/13 A	03/11/19																																
Construction UMS Station P-1253	1381	06/17/13 A	12/12/18																																
Construction CTS Station P-1254R	1381	06/17/13 A	12/12/18																																
Construction YBM Station P-1255	1381	06/10/13 A	12/12/18																																
Construction STS P-1256	1439	06/03/13 A	03/11/19																																

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016		2017				2018				2019				2020				2021		
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
CENTRAL SUBWAY PROJECT						3953	12/01/08 A	06/02/21	0																	
Program Level Milestones						1736	08/31/16	06/02/21	0																	
No 13-Disp						1736	08/31/16	06/02/21	0																	
MS0005	50% through Construction Project - Milestone #5	0		08/31/16*	847																					
HldPt4	Stations to Platform Level	0		11/18/16*	412																					
MS0006	75% through Construction - Project Milestone #6	0		01/01/18*	359																					
MS0007	90% through Construction - Project Milestone #7	0		06/01/18*	208																					
STU1030	Accept CSP Funded LRVs	0		12/11/18	9																					
HldPt5	Systems Complete	0		12/11/18	-106																					
MS0008	Construction Complete	0		03/11/19	-75																					
MS0019	Baseline Finish Date: 12-26-2018	0		05/29/19*	-106																					
MS0009	CSP Revenue Service Date	0		05/29/19*	-106																					
MS0010	Grant Closeout - CSP Complete	0		06/02/21	0																					
Light Rail Vehicles						1199	06/30/15 A	10/10/18	77																	
Real Estate						3130	12/01/08 A	03/31/16	833																	
Construction Phase						3683	01/04/10 A	05/29/19	505																	
Construction Support and Costs						5314	01/04/10 A	05/02/19	762																	
No 13-Disp						5314	01/04/10 A	04/25/19	769																	
SF Arts Commission (SFAC)						1751	01/04/10 A	12/21/18	1																	
Fare Collection						1648	09/28/14 A	05/02/19	762																	
Construction Tunnels CN-1252						306	09/05/14 A	04/01/16	1888																	
1252 Contingency, Interfaces, & Buffer Float						306	09/05/14 A	04/01/16	1888																	
Construction CN-1300						1439	06/17/13 A	03/11/19	561																	
CN- 1300 Milestone						1439	06/17/13 A	03/11/19	561																	
Administrative / Milestones						2094	06/17/13 A	03/11/19	-304																	
DUR	Construction Duration - 1,700 Calendar Days	1699	06/17/13 A	12/11/18	-304																					
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		12/11/18*	-304																					
C.Punch	Closeout Punchlist/Remaining Work	90	12/12/18	03/11/19	-304																					
MS-20	Final Completion - 1,790 Calendar Days (SP-4C)	0		03/11/19*	-304																					
No 13-Disp						1439	06/17/13 A	03/11/19	561																	
Construction UMS Station P-1253						1381	06/24/13 A	12/12/18	619																	
Administrative / Milestones						875	01/14/15 A	05/11/18	216																	
Preconstruction						1149	09/25/14 A	12/11/18	-217																	
Engineering & Procurement						943	10/14/13 A	06/28/17	121																	
Site Work / Utility Relocation						618	05/12/16	09/24/18	120																	
Drilled Shafts						271	03/14/16 A	03/12/17	-172																	
Compensation Grouting						361	02/25/16 A	12/12/16	-74																	
Demolition						491	05/25/15 A	11/28/16	-172																	
Roof Deck Excavation,Construction,Restoration						861	01/05/15 A	01/02/18	310																	
Excavation & Support						264	03/16/16 A	03/30/17	-50																	
Concrete/Shotcrete						504	01/27/16 A	03/27/18	-42																	
Structural Steel						375	09/22/16	02/28/18	-175																	
Masonry						435	08/25/16	04/25/18	-143																	
Mechanical						500	08/25/16	08/13/18	-151																	
Electrical						563	10/13/16	12/10/18	-216																	
Electrical - Transportation						343	03/22/17	07/24/18	-148																	
Architectural Finishes						662	03/26/16	10/09/18	-172																	
Conveyances						442	12/01/16	08/10/18	-130																	
Stairs						590	05/16/16	08/17/18	-150																	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016		2017				2018				2019				2020				2021								
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
Startup & Testing						66	09/03/18	12/03/18	-211																							
No 13-Disp						1381	06/24/13 A	12/12/18	619																							
Construction CTS Station P-1254R						1303	12/23/13 A	12/12/18	619																							
Administrative / Milestones						155	08/18/17	03/22/18	-79																							
Preconstruction						512	01/22/16 A	02/05/18	4																							
Site Work / Utility Relocation						644	03/28/16	09/13/18	127																							
Demolition						5	06/08/18	06/14/18	-211																							
Excavation & Support						548	02/01/16 A	04/24/18	-52																							
CTS.31.20.175	Excavate Below Temp Level 5.0 Struts +/-8kcy Col. 1.0-4.0	5	02/01/16 A	04/06/16	-216	Excavate Below Temp Level 5.0 Struts +/-8kcy Col. 1.0-4.0																										
CTS.31.50.900	CTS_CN Install Temp Level 4.0 Struts & Wales & Preload Col. 4.0-11.0	8	03/10/16 A	04/06/16	101	CTS_CN Install Temp Level 4.0 Struts & Wales & Preload Col. 4.0-11.0																										
CTS.31.20.400	ExcavateTo Temp Level 5.0 Struts +/-8kcy Col. 4.0-11.0	11	04/07/16	04/21/16	101	ExcavateTo Temp Level 5.0 Struts +/-8kcy Col. 4.0-11.0																										
CTS.31.43.140	CTS_ Compensation Grouting - As Required	10	05/05/16	05/18/16	437	CTS_ Compensation Grouting - As Required																										
CTS.31.50.310	CTS_CN Install Temp Level 5 Struts & Wales & Preload Col 4.0-11.0	8	07/21/17	08/01/17	-214	CTS_CN Install Temp Level 5 Struts & Wales & Preload Col 4.0-11.0																										
CTS.31.20.320	Excavate to 4' Below Level 6 Struts EL 7.5' Col 4.0-11.0	9	07/21/17	08/02/17	-214	Excavate to 4' Below Level 6 Struts EL 7.5' Col 4.0-11.0																										
CTS.31.50.330	Install Temp Level 6 Struts & Wales & Preload	10	07/26/17	08/08/17	-214	Install Temp Level 6 Struts & Wales & Preload																										
CTS.31.20.335	Excavate to 3' Below Level 7 Struts EL -7.5 Col 4.0-11.0	15	07/28/17	08/17/17	-214	Excavate to 3' Below Level 7 Struts EL -7.5 Col 4.0-11.0																										
CTS.31.50.370	Install Temp Level 7 Struts & Wales & Preload	10	08/07/17	08/18/17	-214	Install Temp Level 7 Struts & Wales & Preload																										
CTS.31.20.380	Excavate Headhouse to Invert Slab EL -18.67	12	08/21/17	09/06/17	-214	Excavate Headhouse to Invert Slab EL -18.67																										
CTS.31.50.070	Remove Level 6 & 7 Struts & Wales	5	11/29/17	12/05/17	-209	Remove Level 6 & 7 Struts & Wales																										
CTS.31.50.110	CTS_CN Remove Level 5 Struts & Wales	5	11/29/17	12/05/17	-214	CTS_CN Remove Level 5 Struts & Wales																										
CTS.31.50.150	CTS_CN Remove Level 4 Struts & Wales	5	01/18/18	01/24/18	-172	CTS_CN Remove Level 4 Struts & Wales																										
CTS.31.50.195	Remove Level 3 Struts & Wales	5	03/16/18	03/22/18	-208	Remove Level 3 Struts & Wales																										
CTS.31.50.235	Remove Level 2 Struts & Wales	5	03/23/18	03/29/18	-198	Remove Level 2 Struts & Wales																										
CTS.31.50.240	Remove Level 1 Struts & Wales	5	04/18/18	04/24/18	-209	Remove Level 1 Struts & Wales																										
Tunnel / Cavern Mining						630	01/06/16 A	08/30/17	-101																							
Cavern Lining						276	02/08/17	02/28/18	-190																							
CTS.31.74.550	Final Lining North Emergency Egress Tunnel	20	02/08/17	03/07/17	35	Final Lining North Emergency Egress Tunnel																										
CTS.31.74.630	Place Smoothing Concrete Final Lining Invert - Platform Cavern North	5	02/15/17	02/20/17	-55	Place Smoothing Concrete Final Lining Invert - Platform Cavern North																										
CTS.31.74.900	Install Waterproofing & Grout Pipes - Final Lining - Platform Cavern North	10	02/21/17	03/03/17	-55	Install Waterproofing & Grout Pipes - Final Lining - Platform Cavern North																										
CTS.31.74.870	Final Lining South Emergency Egress Tunnel	20	03/01/17	03/28/17	30	Final Lining South Emergency Egress Tunnel																										
CTS.31.74.910	Place Invert Rebar - Final Lining - Platform Cavern North	10	03/04/17	03/15/17	-55	Place Invert Rebar - Final Lining - Platform Cavern North																										
CTS.31.74.920	Place Invert Concrete - Final Lining - Platform Cavern North	10	03/16/17	03/27/17	-55	Place Invert Concrete - Final Lining - Platform Cavern North																										
CTS.31.74.650	Place Smoothing Concrete Final Lining Arches - Platform Cavern North	10	03/28/17	04/07/17	-55	Place Smoothing Concrete Final Lining Arches - Platform Cavern North																										
CTS.31.74.930	Install Waterproofing & Grout Pipes - Final Lining Arches - Platform Cavern North	15	04/08/17	04/25/17	-55	Install Waterproofing & Grout Pipes - Final Lining Arches - Platform Cavern North																										
CTS.31.74.940	Install Rebar -Final Lining Arches - Platform Cavern North	15	04/26/17	05/12/17	-55	Install Rebar -Final Lining Arches - Platform Cavern North																										
CTS.31.74.950	Shotcrete - Final Lining Arches - Platform Cavern North	15	05/13/17	05/31/17	-55	Shotcrete - Final Lining Arches - Platform Cavern North																										
CTS.31.74.700	Place Smoothing Concrete - Final Lining invert - Crossover Cavern	15	08/18/17	09/05/17	-260	Place Smoothing Concrete - Final Lining invert - Crossover Cavern																										
CTS.31.74.705	Install Waterproofing - Final Lining invert - Crossover Cavern	15	09/06/17	09/22/17	-260	Install Waterproofing - Final Lining invert - Crossover Cavern																										
CTS.31.74.800	Place Smoothing Concrete - Final Lining Arches - Crossover Cavern	15	09/12/17	09/28/17	-150	Place Smoothing Concrete - Final Lining Arches - Crossover Cavern																										
CTS.31.74.715	Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern	20	09/23/17	10/16/17	-260	Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern																										
CTS.31.74.805	Install Waterproofing - Final Lining Arches - Crossover Cavern	15	09/29/17	10/16/17	-150	Install Waterproofing - Final Lining Arches - Crossover Cavern																										
CTS.31.74.710	Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern	6	10/17/17	10/23/17	-260	Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern																										
CTS.31.74.725	Place Concrete - Final Lining invert - Crossover Cavern	20	10/17/17	11/08/17	-260	Place Concrete - Final Lining invert - Crossover Cavern																										
CTS.31.74.960	Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern	5	10/24/17	10/28/17	-260	Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern																										
CTS.31.74.560	Place Smoothing Concrete - Final Lining Invert - Platform Cavern South	10	10/24/17	11/03/17	-253	Place Smoothing Concrete - Final Lining Invert - Platform Cavern South																										
CTS.31.74.970	Install Rebar - Final Lining Invert -Cross Cut Cavern	10	10/30/17	11/09/17	-260	Install Rebar - Final Lining Invert -Cross Cut Cavern																										
CTS.31.74.575	Install Waterproofing - Final Lining Invert - Platform Cavern South	15	10/30/17	11/16/17	-253	Install Waterproofing - Final Lining Invert - Platform Cavern South																										
CTS.31.74.585	Install Rebar & Grout Piping - Final Lining Invert - Platform Cavern South	15	11/04/17	11/22/17	-253	Install Rebar & Grout Piping - Final Lining Invert - Platform Cavern South																										
CTS.31.74.980	Place Concrete - Final Lining Invert -Cross Cut Cavern	10	11/10/17	11/22/17	-260	Place Concrete - Final Lining Invert -Cross Cut Cavern																										
CTS.31.74.595	Place Concrete - Final Lining Invert - Platform Cavern South	15	11/17/17	12/06/17	-253	Place Concrete - Final Lining Invert - Platform Cavern South																										

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016				2017				2018				2019				2020			2021								
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3					
CTS.31.74.990	Install Waterproofing - Final Lining Arches - Crosscut Cavern	15	11/23/17	12/12/17	-260																												
CTS.31.74.1000	Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern	15	12/01/17	12/18/17	-260																												
CTS.31.74.605	Place Smoothing Concrete - Final Lining Arches - Platform Cavern South	15	12/01/17	12/18/17	-253																												
CTS.31.74.350	Shotcrete Final Lining Arches - Crosscut Cavern	20	12/12/17	01/05/18	-260																												
CTS.31.74.615	Install Waterproofing - Final Lining Arches - Platform Cavern South	15	12/13/17	12/30/17	-253																												
CTS.31.74.625	Install Rebar & Grout Piping - Final Lining Arches - Platform Cavern South	15	12/26/17	01/12/18	-253																												
CTS.31.74.635	Shotcrete - Final Lining Arches - Platform Cavern South	15	01/06/18	01/23/18	-253																												
CTS.31.74.815	Install Rebar & Grout Piping - Final Lining Arches - Crossover Cavern	20	01/13/18	02/05/18	-221																												
CTS.31.74.825	Shotcrete - Final Lining Arches - Crossover Cavern	20	02/06/18	02/28/18	-221																												
Concrete/Shotcrete		379	03/08/17	08/20/18	-181																												
Structural Steel		104	03/27/18	08/17/18	-193																												
Masonry		104	01/11/18	06/05/18	-179																												
Mechanical		383	03/22/17	09/07/18	-195																												
Misc Metal		295	07/21/17	09/13/18	-198																												
Electrical		303	08/02/17	09/28/18	-200																												
Electrical - Transportation		84	03/05/18	06/28/18	-186																												
Architectural Finishes		442	01/12/17	10/02/18	-167																												
Conveyances		98	05/28/18	10/10/18	-218																												
Startup & Testing		171	04/17/18	12/11/18	-217																												
No 13-Disp		1303	12/23/13 A	12/12/18	619																												
Construction YBM Station P-1255		1323	12/31/13 A	12/12/18	619																												
Administrative / Milestones		354	10/31/16	03/08/18	-34																												
Preconstruction		15	01/16/18	02/05/18	4																												
Excavation & Support		454	05/04/16	01/29/18	-16																												
Concrete/Shotcrete		515	02/25/16 A	03/08/18	262																												
Mechanical		5	05/24/17	05/31/17	84																												
Electrical		401	07/13/16	01/24/18	-52																												
Electrical - Transportation		342	07/08/16	10/30/17	10																												
Conveyances		222	04/26/17	03/12/18	-82																												
Startup & Testing		61	03/22/18	06/14/18	-89																												
No 13-Disp		1323	12/31/13 A	12/12/18	619																												
Construction STS P-1256		1439	01/06/14 A	03/11/19	561																												
Preconstruction		486	03/26/16	02/05/18	4																												
Engineering & Procurement		15	03/28/16	04/15/16	-28																												
Site Work / Utility Relocation		126	03/28/16	09/22/16	-4																												
Concrete/Shotcrete		70	09/09/16	01/25/17	209																												
Tunnel Concrete		460	02/15/16 A	06/04/18	-81																												
Structural Steel		15	02/01/17	02/22/17	68																												
Electrical		233	08/11/17	07/10/18	-151																												
Electrical - Transportation		21	03/09/18	04/06/18	-153																												
Trackwork		435	08/22/16	04/20/18	-50																												
Track System Work		1062	04/25/15 A	02/20/19	-203																												
STS.34.42.2560	ATSC Systems- Intermediate Design	90	04/25/15 A	04/27/16	-196																												
STS.34.42.2570	ATSC Systems- Final Design	90	09/25/15 A	08/22/16	-196																												
STS.34.42.2580	ATSC Systems- Factory Acceptance Test Complete	90	08/22/16	01/03/17	-196																												
STS.34.42.2590	ATSC Systems- Hardware Equipment Procurement	120	01/03/17	06/21/17	-196																												
STS.34.42.250	Install ATSC Systems - At-Grade Section	90	02/23/17	06/29/17	68																												
STS.34.42.2600	ATSC Systems- Deliver Hardware	120	06/21/17	12/13/17	-196																												
STS.34.42.2610	ATSC Systems- Installation, Software Testing	150	12/13/17	07/12/18	-196																												
STS.34.23.230	Install OCS Contact Wire/RF/ATCS Cable Loop - Northbound Tunnel	20	03/30/18	04/26/18	-141																												

Appendix C

PROJECT SCOPE AND FUNDING OVERVIEW

Project Overview

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

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

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

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

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



Project Overview - continued

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

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

Funding Overview

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

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

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

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

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

All amounts in millions of dollars

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

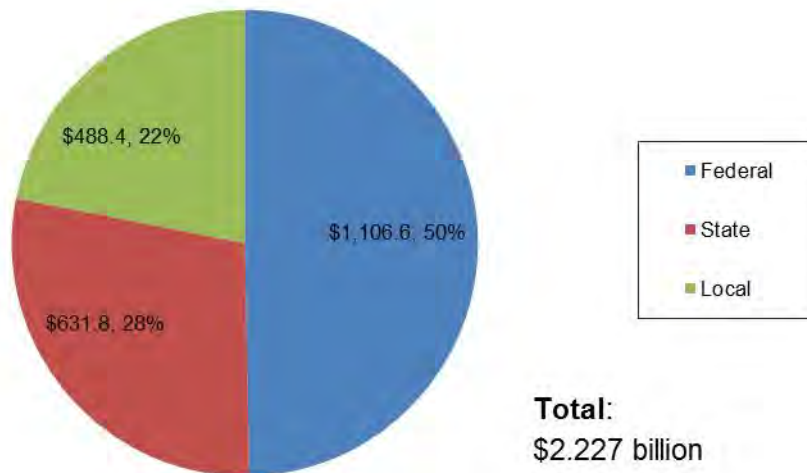
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

Funding Overview - continued

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

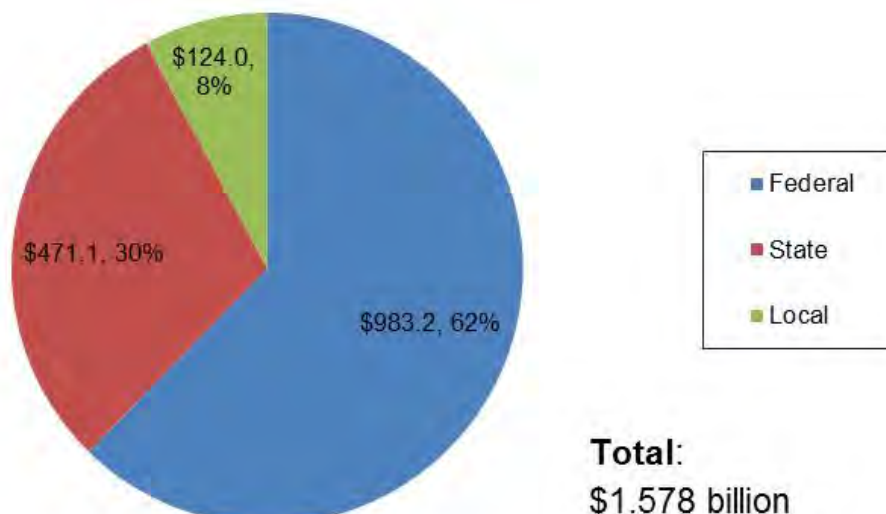
Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2
(\$ in millions)



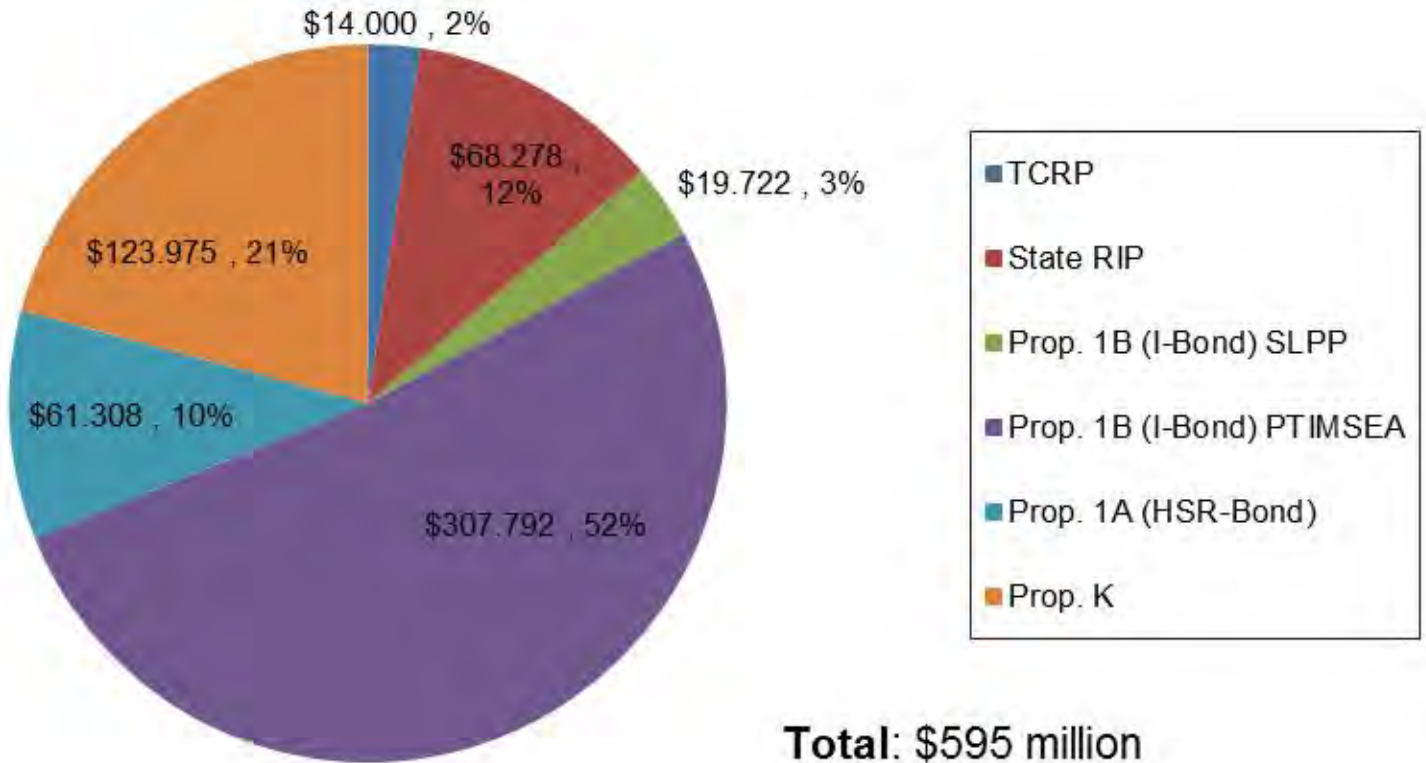
Central Subway Project Funding

Phase 2
(\$ in millions)



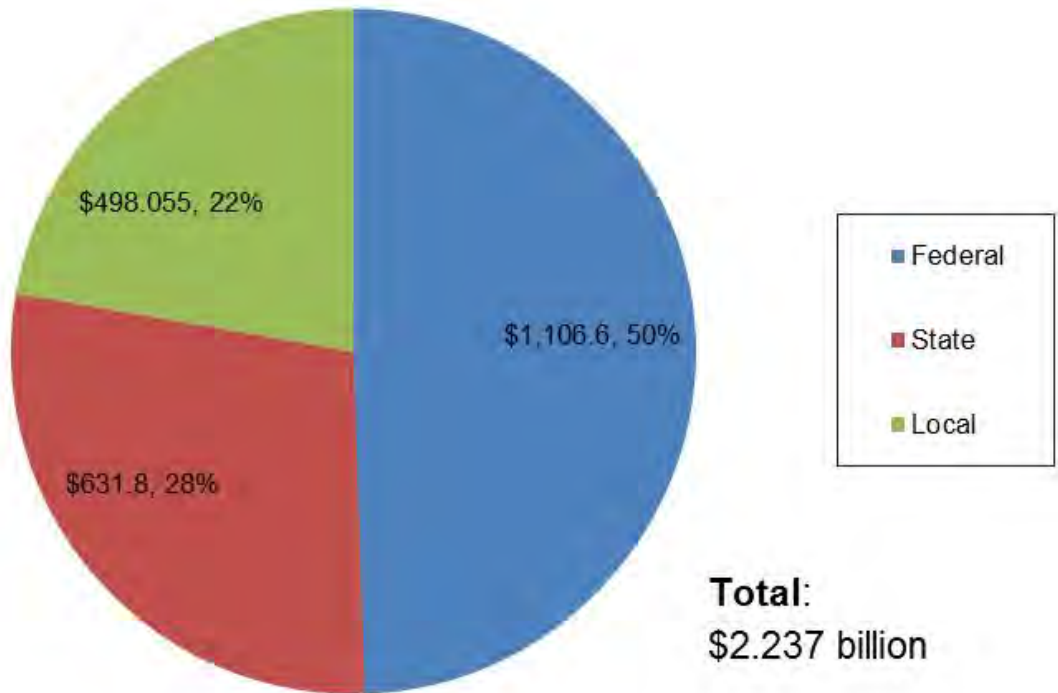
State and Local Funding

Phase 2
(\$ in millions)



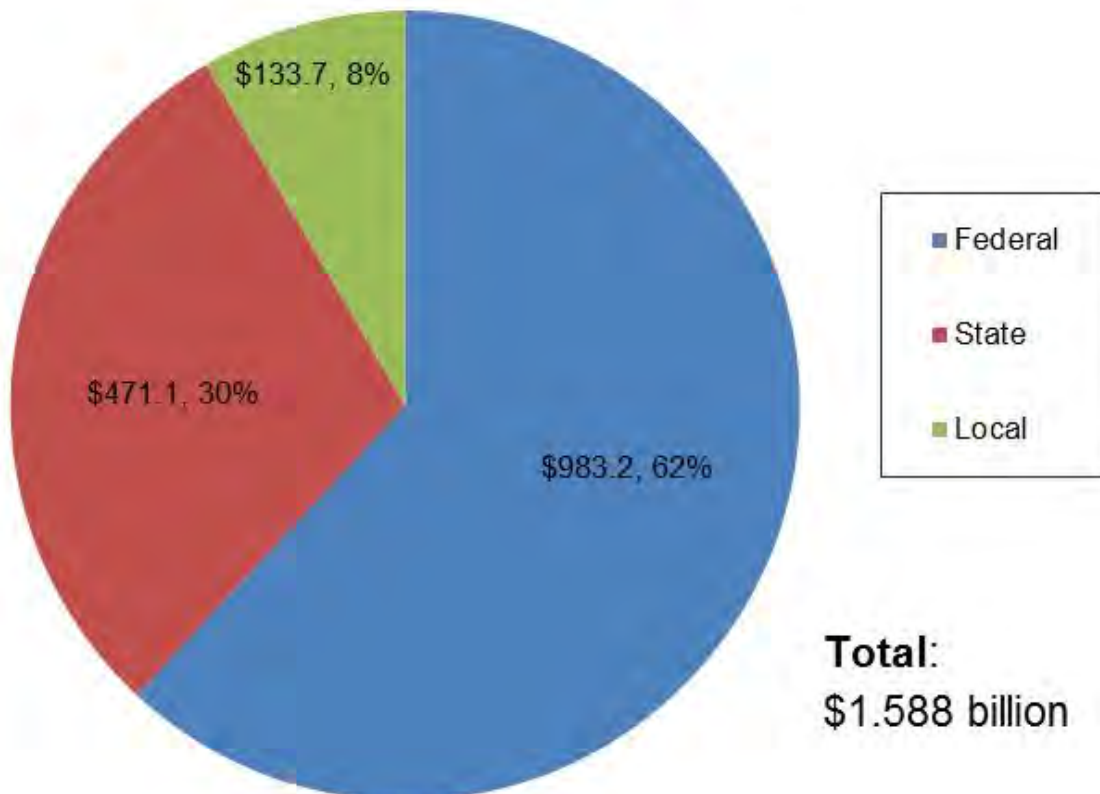
Third Street Light Rail Transit Project Funding

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

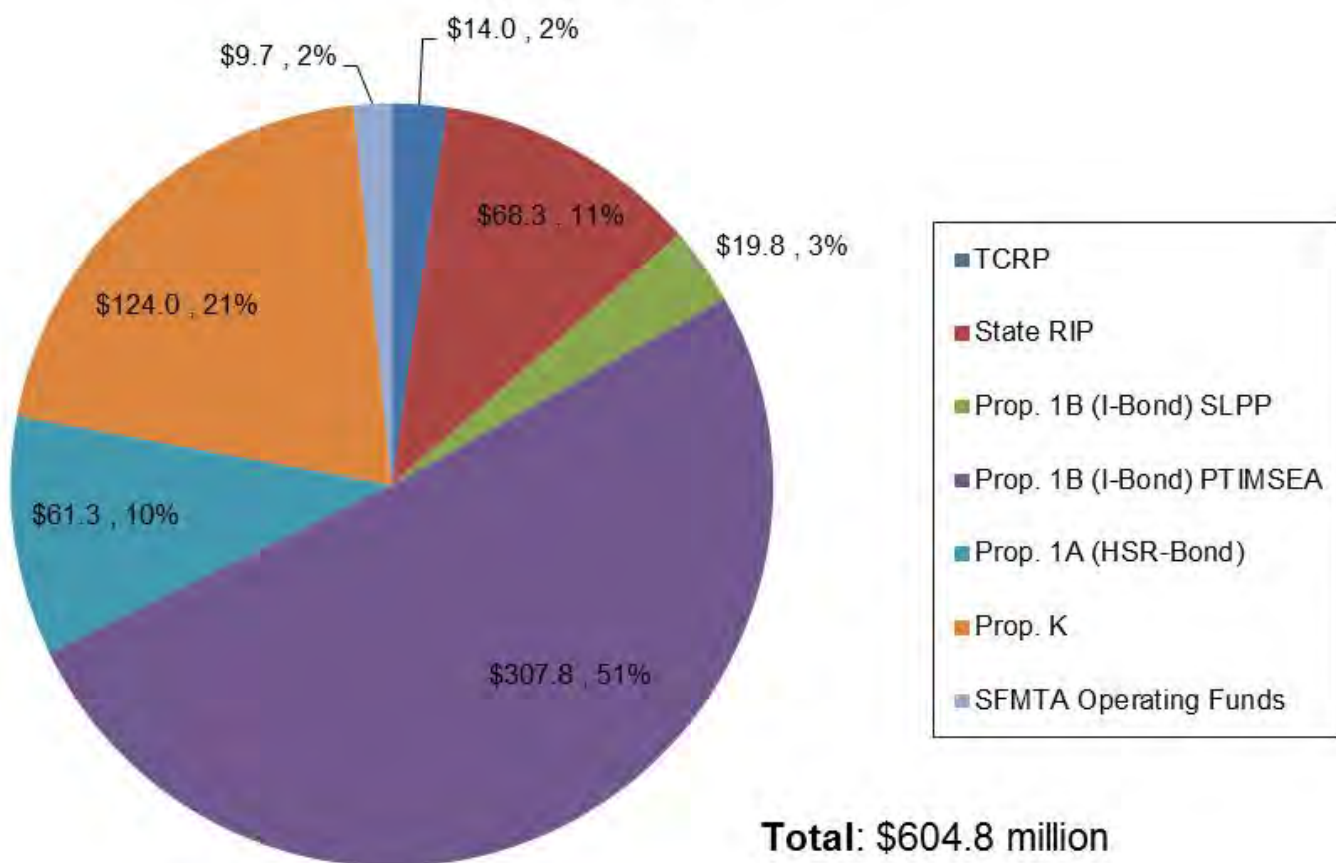


Central Subway Project Funding

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



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



Appendix D

COMPLETED CONTRACTS

Moscone Station and Portal Utility Relocation

Contract 1250

Contractor: Synergy Project Management, Inc.

Budget/Expenditures

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

Contract Details

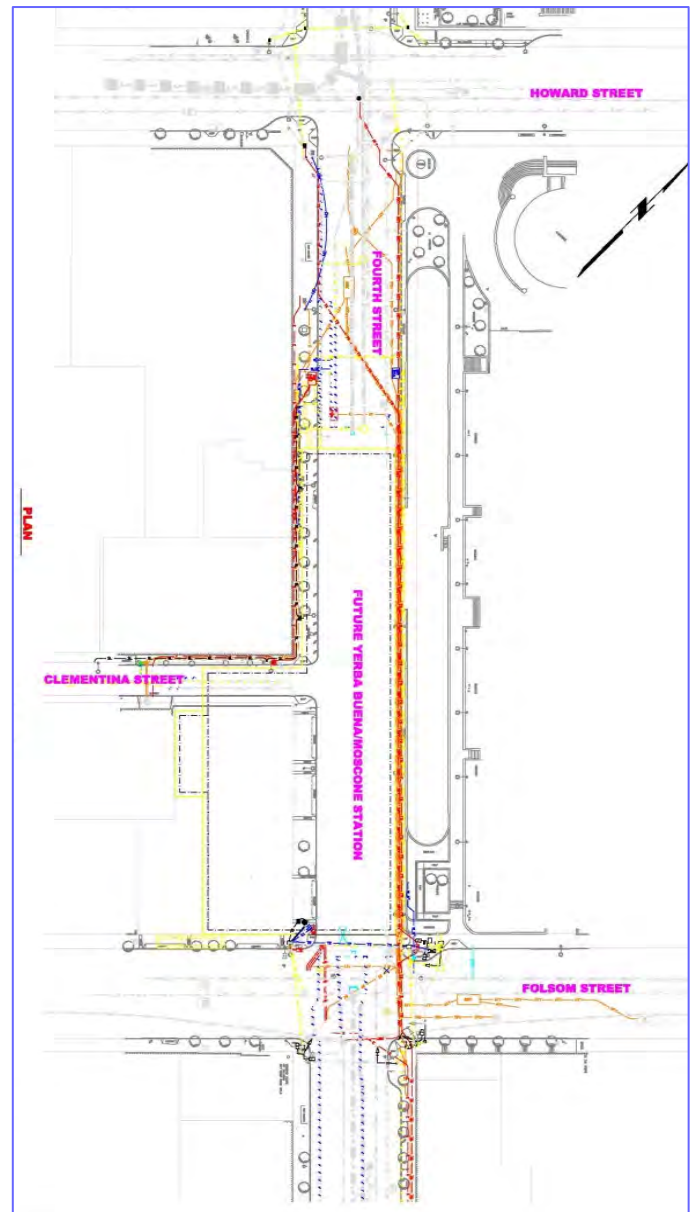
Contract Awarded:	November 17, 2009
Notice to Proceed:	January 4, 2010
Substantial Completion:	June 23, 2011
Contract Award Value:	\$ 9,273,939
Modifications Final :	\$ 2,694,211
Final Contract Value:	\$11,968,150

Status

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

Description

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



Union Square/Market Street Station Utility Relocation

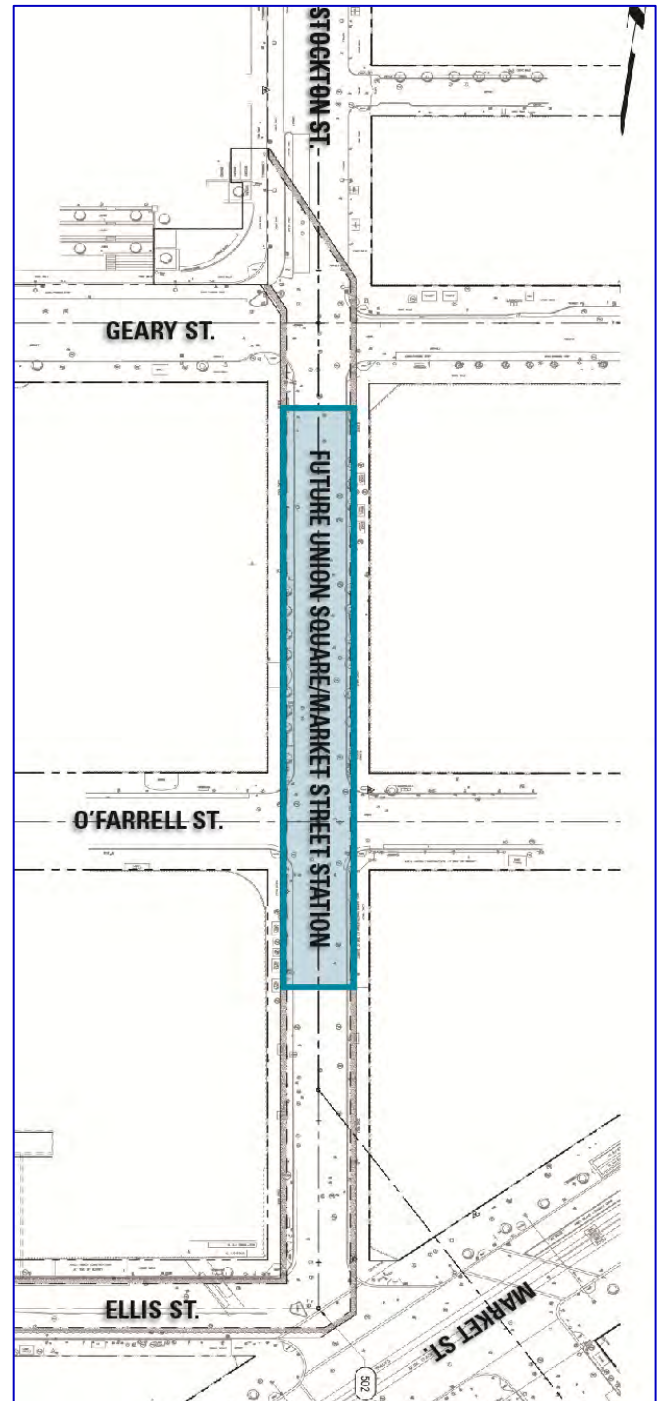
Contract 1251

Contractor: Synergy Project Management, Inc.

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

Description

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



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

Status

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

Central Subway Pagoda Palace Demolition

Contract 1277 Contractor: MH Construction

Work Description

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

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

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

Contract Details

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



Central Subway Tunneling

Contract 1252 Contractor: Barnard Impregilo Healy Joint Venture

Description of Work

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

Status

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

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

Contract Details	
Contract Awarded:	June 28, 2011
Notice to Proceed 1:	January 27, 2012
Notice to Proceed 2:	March 14, 2012
Partial NTP 3:	April 12, 2012
Notice to Proceed 3:	October 15, 2012
Substantial Completion:	April 13, 2015
Contract Award Value:	\$233,584,015
Modifications to Date:	\$8,084,852
Current Contract Value:	\$241,668,867



Appendix E

SBE PARTICIPATION

Quarterly Report

Current Report: January 2016 – March 2016

PROGRAM SUPPORT CONTRACTS – SBE PARTICIPATION

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

CS Program SBE Summary Table for Professional Services and Construction Contracts

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

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

SBE Summary Table Notes and Sources:

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

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

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

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

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

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

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

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

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

SBE Participation Details

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

Active Professional Services Contracts - SBE Participation Details

As of: 3/31/2016

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

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

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

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

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

Active and Completed Construction Contracts - SBE Participation Details

Data as of: 3/31/2016

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

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

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

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

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

Photos on the next page:

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

central subway

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