

Westside Purple Line Extension Section 2 Project



Metro®

WESTSIDE PURPLE LINE EXTENSION SECTION 2 PROJECT

MONTHLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA).

APRIL 2018

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PROJECT OVERVIEW & STATUS

Section 2 of the Westside Purple Line Extension Project is the second of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 2 will extend the future Wilshire/La Cienega Station that is part of the Westside Purple Line Extension Section 1 Project currently under construction to the Century City area. The Project is located entirely underground, primarily following Wilshire Boulevard, and includes the design and construction of approximately 2.59 miles of double-track heavy rail and two new stations as well as the purchase of 20 heavy rail vehicles. The Project also includes train controls, signals, traffic controls, communications, traction power supply and distribution, fare collection systems and equipment, acquisition of right-of-way, and utility relocations.

Design

The Engineering Management Services (EMS) team continues to provide design support for the Advanced Utility Relocation (AUR) work in Century City and Beverly Hills as well as real estate support services. The team is also supporting Metro in reviewing final design submittals, responding to RFI's, and assisting in the preparation of change notices.

The C1120 Contractor, Tutor Perini/O&G, a Joint Venture (TPOG), has mobilized the final design team, STV.

The design work has been identified into three distinct design unit packages. They are:

1. Design Package 1 – Utility/Civil Design at Launch Box in Century City
2. Design Package 2 – Remaining Utility Conflicts (Outside of Launch Box)
3. Design Package 3 (Volume 1) – Tunnel Reaches
Design Package 3 (Volume 2) – Stations
Design Package 3 (Volume 3) – Track & Systems

Metro, TPOG and STV are working together to identify advanced partial design units for design package 3 and proposed submittal dates to facilitate timely design review to support the project schedule.

Each design unit package will be submitted and evaluated at each of the following phases: 60%, 85%, 100%, Approved for Construction (AFC) and Issued for Construction (IFC). If required, critical design units can be advanced as Advanced Partial Design Units (APDU's) to support ongoing construction activities.

Design progress meetings are occurring weekly related to the design unit packages. Weekly design task force meetings (by individual discipline) began at the end of March 2018 and are scheduled to continue through design completion. TPOG is continuing with the required contractual submittals. *Design related submittals of note that TPOG has submitted this month are: Design Package 1 – 100% design complete; Peak Hour Exemption request for Century City Constellation Station Launch Box; Design Package 3 (Volume 3) 60% design complete; Ambient*

Noise Report; Staging Areas' Noise Barriers; and Surface Improvements Replacement Design.

Final design is 63.84% complete.

Major Contract Procurement

All construction contracts for the Project have been awarded.

Construction

Advanced Utility Relocations

Century City Constellation: *LADWP Power construction began in May 2017, and the civil work is 75% complete. AT&T duct bank and vault construction began in November 2017, and is anticipated to complete in Summer 2018. Cable pulling and splicing to follow for both utilities with an anticipated completion in 2019.*

Wilshire/Rodeo: Southern California Gas (SCG) and AT&T work started on February 12, 2018, is ongoing and anticipated to complete in Summer 2018.

Contract C1120 – Tunnels, Stations, Trackwork and Systems (Design/Build)

Contract award was issued on January 31, 2017 and Notice to Proceed on April 26, 2017. TBM's purchase order has been executed.

Geotechnical investigations in the City of Beverly Hills started in late 2017 and are ongoing. Seventeen borings have been completed to date. Pre-construction surveys are ongoing.

Site preparation work at the future Wilshire/Rodeo Station entrance is scheduled to start in May 2018. *Other major construction activities to begin in the near future are the soldier pile installation for the TBM launch box and the TBM tunnel shaft at the eastern end of the Century City Constellation Station. This work is scheduled to begin in July 2018.*

Demolition of 1940 and 1950 Century Park East, geotechnical fault line investigation borings, and removal of oil lines in Century City are all anticipated to start in late May 2018.

Sound wall installation at 2040 Century Park East (construction staging area) is in progress.

Beverly Hills City Council approved the Memorandum of Agreement (MOA) governing remaining third party utility relocation work on November 22, 2017. *MOA negotiations are ongoing with the City of Beverly Hills for the C1120 Contract and are anticipated to complete in Summer 2018.*

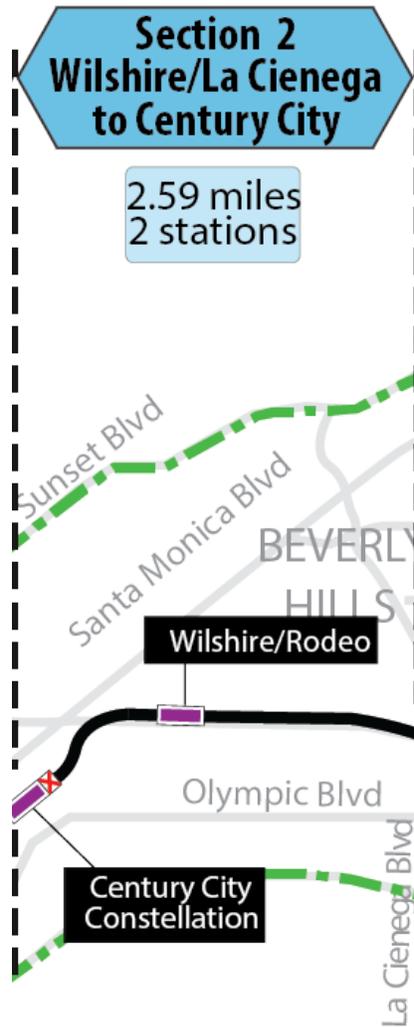
MANAGEMENT ISSUES

No management issues this period.

PROJECT ALIGNMENT BY SECTIONS



PROJECT ALIGNMENT SECTION 2



BASE PROJECT SCOPE

Section 2 of the Westside Purple Line Extension Project is the second of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

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The Wilshire/Rodeo Station box will be under the center of Wilshire Boulevard beginning just east of South Canon Drive and extending to El Camino Drive. The entrance will be on the southwest corner of Wilshire Boulevard and Reeves Drive.

The Century City Constellation Station box will be under the center of Constellation Boulevard between Century Park East and Solar Way. A double crossover will be located east of this station. The entrance will be on the northeast corner of Constellation Boulevard and Avenue of the Stars. In lieu of tail tracks, safe breaking distance will be provided at the interim terminus station.

Contract C1120 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

The procurement of this contract utilized a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

The Design/Build contract provides for final design and construction of the infrastructure along the 2.59 mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. The structures to be constructed include twin bored tunnels complete with cross-passages and walkways including all mechanical, electrical and finished work. A tunnel boring launch (TBM) shaft will be constructed at the Century City Constellation Station. Two underground stations are to be constructed with one double crossover location set east of the Century City Constellation (terminus) Station. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work also includes all architectural finishes, mechanical and electrical systems and equipment including train control, traction power, communications, trackwork, system tie-in to the Wilshire/La Cienega Station (currently under construction), testing and commissioning.

BASE PROJECT SCOPE (Continued)

Metro Furnished Equipment

Metro has procured a separate contract to provide the 20 Heavy Rail Vehicles (HRV) and will procure a separate contract for the Universal Fare System (UFS) necessary to operate the Purple Line. The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract will include design, fabrication and installation of equipment at the two stations and system testing.

Start Up

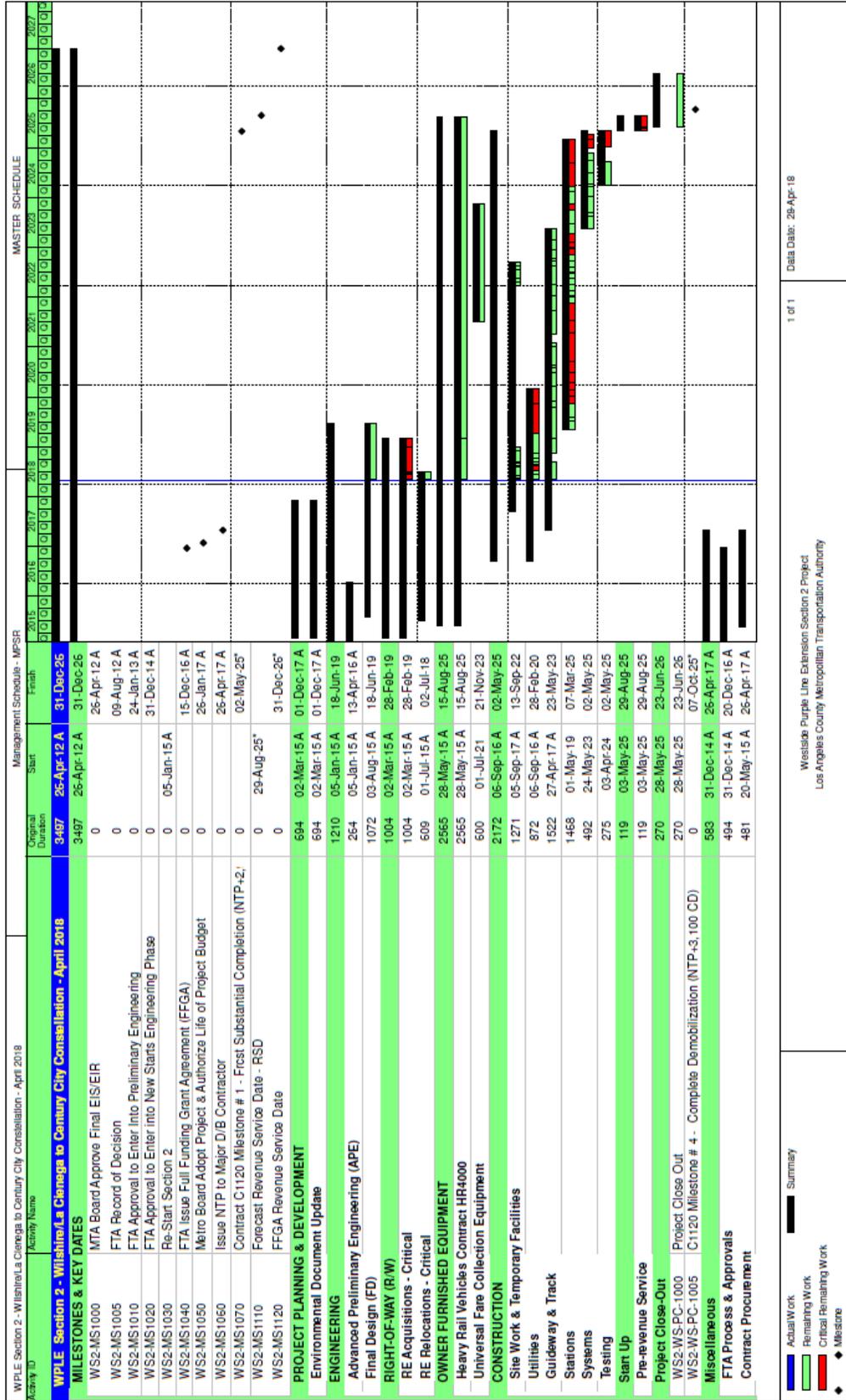
The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a “stress test” of maximum operational service levels to be acceptable. Pre-Revenue Operations include train runs, especially those involving multiple trains on the integrated and fully operational extension; rehearsal of expected revenue operations scenarios; abnormal and emergency scenarios in which random combinations of system interactions are tested and equipment “burned-in”; and training of emergency services as well as Metro personnel who will operate and maintain the extension. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

KEY MILESTONES SIX-MONTH LOOK AHEAD

	Milestone Date	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
Submit 100% Design Package - SOE for TBM Launch Box	05/07/18	<input type="checkbox"/>					
Submit 100% Design Package 1 - Utility/Civil Design at Launch Box in Century City	05/14/18	<input type="checkbox"/>					
Submit 100% Drawings Resubmittal - SOE Wilshire/Rodeo Station	05/21/18	<input type="checkbox"/>					
Start Nine (9) Month Street Closure of Constellation Blvd.	06/01/18		<input type="checkbox"/>				
Start Installation of Soldier Piles - Tunnel Shaft	06/27/18		<input type="checkbox"/>				
Submit 100% Design Package 2 - Remaining Utility Conflicts (Outside of Launch Box)	06/29/18		<input type="checkbox"/>				
Issue IFC Drawings - SOE for TBM Launch Box	07/05/18			<input type="checkbox"/>			
Issue IFC Drawings for Design Package 1 - Utility/Civil Design at Launch Box	07/05/18			<input type="checkbox"/>			
Third Party Utility Relocations Complete at Wilshire/Rodeo Station	08/15/18				△		
Issue IFC Drawings - SOE Wilshire/Rodeo Station	08/24/18				<input type="checkbox"/>		
Start Construction Bus Layover Facility on Santa Monica Blvd.	08/30/18				<input type="checkbox"/>		
Start Installation of Soldier Piles - TBM Launch Box	09/14/18					<input type="checkbox"/>	
Submit IFC Drawings Package 2 - Remaining Utility Conflicts (Outside of Launch Box)	10/31/18						<input type="checkbox"/>

 MTA Staff
  Other Agencies
  Contractor

PROJECT SUMMARY SCHEDULE

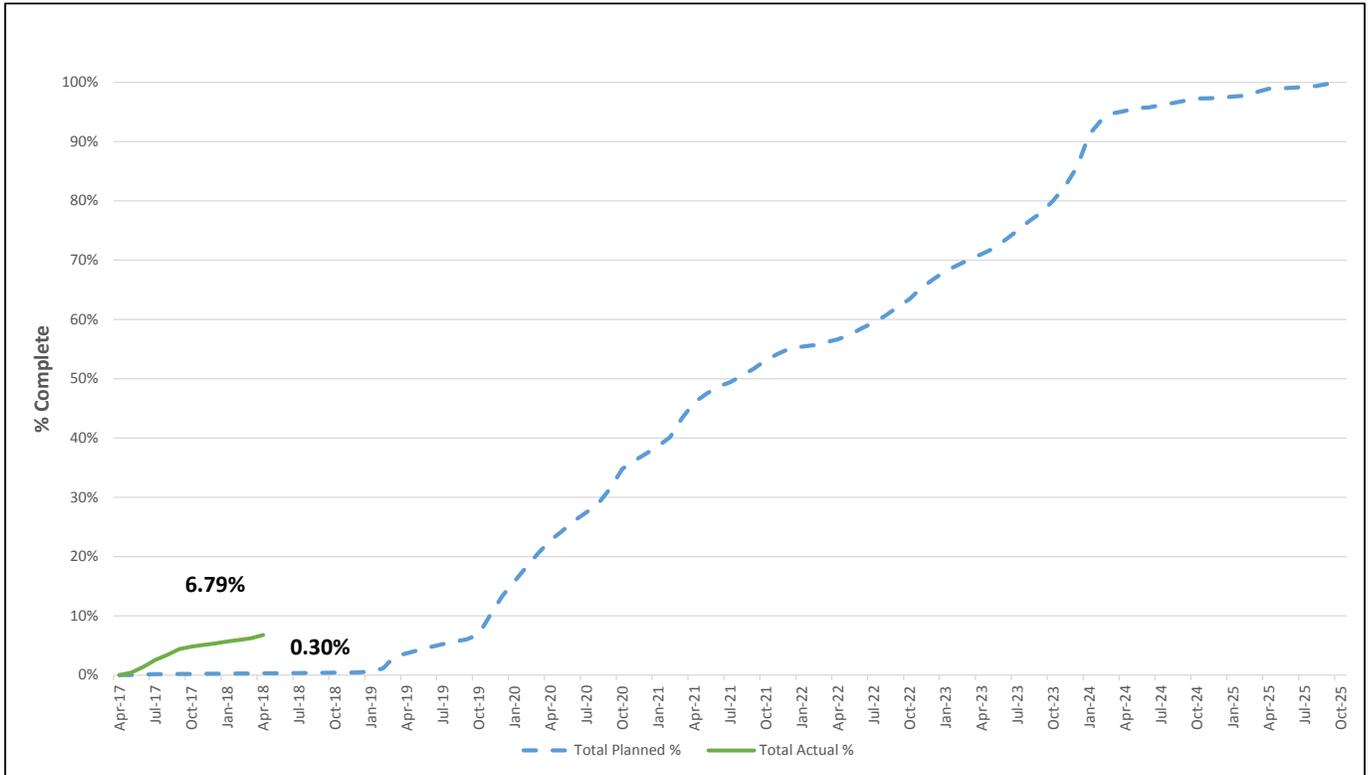


SCHEDULE MEASUREMENTS

	Status	Last Period	Change from Last Period	Comment
Forecast Revenue Service Date	8/29/2025	8/29/2025	None	
FFGA Revenue Service Date	12/31/2026	12/31/2026	None	
Final Design Progress:				
Contract C1120	63.84%	57.17%	6.67%	Final Design is currently scheduled to complete in June 2019.
Construction Contracts Progress*:				
Contract C1120	6.79%	0.00%	6.79%	NTP issued on April 26, 2017.

*Note: Physical completion assessment reflects work completed and work in progress.

OVERALL CONSTRUCTION PROGRESS CURVE



The actual overall construction progress is 6.79% versus a planned of 0.30% through April 2018. The progress curves represent the physical progress of work performed to complete Contract C1120. The "Total Planned %" curve is based on the Contractor's late schedule dates from the approved baseline schedule.

The physical progress percentage excludes non-construction items such as contractor's design and construction mobilization costs and all general requirement costs not tied specifically to a construction work effort.

MAJOR EQUIPMENT DELIVERY

	Submittal	Procurement	Delivery	Installation
C1120 DESIGN/BUILD*				
Tunnel Boring Machine	7/27/17A	8/14/2017A	10/4/18	4/8/19
Emergency Ventilation Fans	5/6/19		12/24/19	1/25/21
Station Elevators/Escalators	4/30/19	6/3/19	5/26/20	5/7/21
Track	4/8/19	8/2/19	11/22/19	7/23/21
Automatic Train Control	7/30/18	8/30/18	4/3/19	5/7/21
Traction Power Equipment	9/13/19	10/16/19	6/23/20	9/9/21
SCADA RTU System	12/11/18	1/11/19	8/12/19	3/2/21
Radio System	10/5/18	11/5/18	6/7/19	2/8/21
Heavy Rail Vehicles	Exercise Option #3 March 1, 2019			
Universal Fare System	TBD	TBD	TBD	June 2023**

* Dates derived from TPOG's April 2018 Updated Schedule.

** Forecast release date by C1120 Contractor to UFS contractor access at stations.

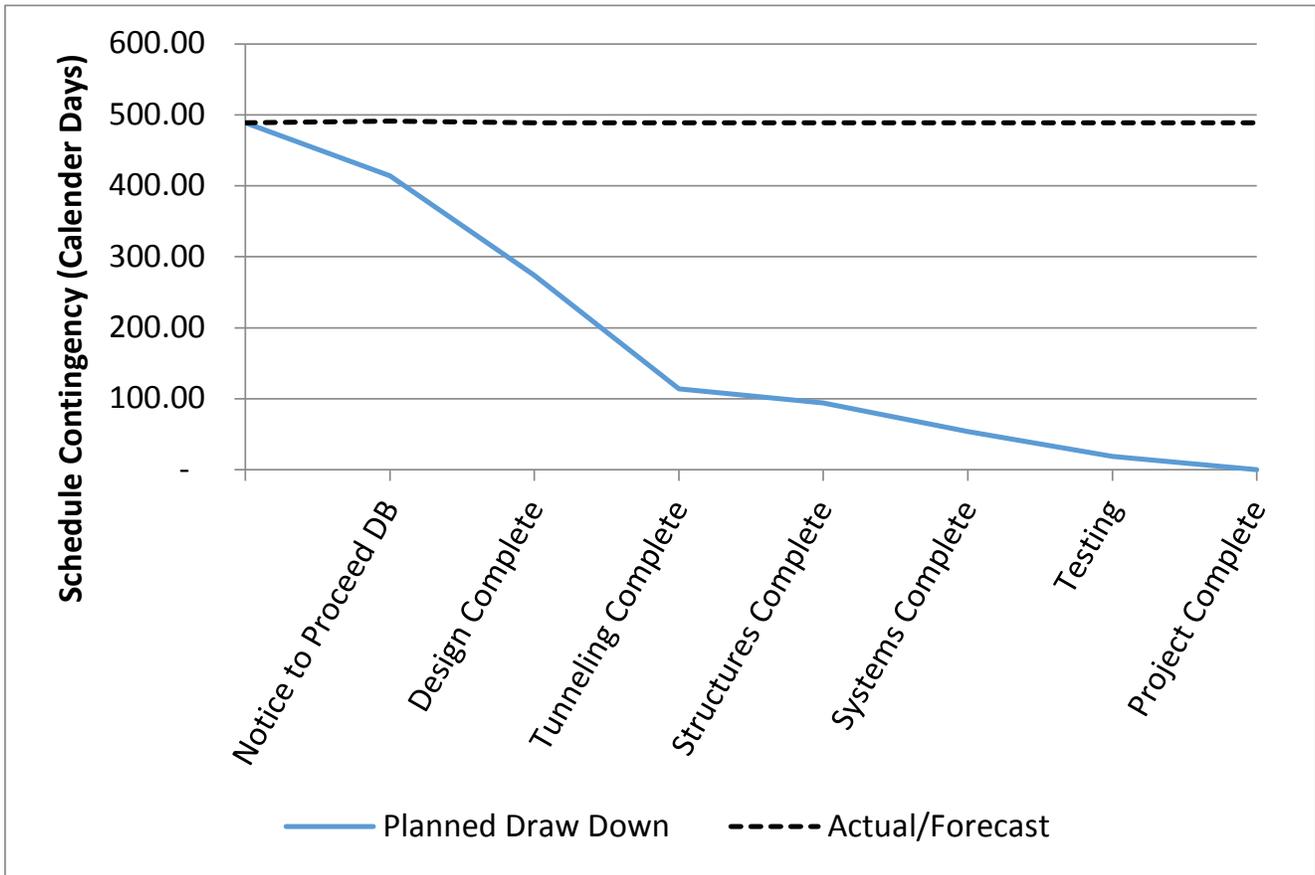
DESIGN BUILDER'S (C1120) LONG LEAD ITEM LIST

Currently under development.

CRITICAL PATH NARRATIVE

The Critical Path for the Westside Purple Line Extension Project Section 2 begins with third party utility relocations at the future Century City Constellation (CCC) Station and is followed by the Contractor, Tutor Perini/O&G a Joint Venture (TPOG), required utility relocations in the same area. The path then follows into installation of soldier piles on the north side, then immediately on the south side, then proceeding into support beams and temporary street decking of the CCC Station. The critical path then flows into excavation below the deck, and then structural concrete for the station through the arched roof concrete. The path continues into the installation of the interior finishes and mechanical/electrical equipment. Simultaneously, systems installation work for Automatic Train Controls, Traction Power and Communications will be ongoing. It follows with connecting with Rail Operations Center (ROC) for TPOG's System Integration Testing to ROC and then complete Systems Integration Testing for the Heavy Rail Vehicles, Communications tie-ins and with the Wilshire/La Cienega Station to obtain FLS Certification and CPUC Safety Certification Verification, and then ends with pre-revenue operations.

PROJECT SCHEDULE CONTINGENCY DRAWDOWN



PROJECT SCHEDULE CONTINGENCY DRAWDOWN ANALYSIS

The project schedule contingency drawdown curve is based on an August 29, 2025 Forecast Revenue Service Date (RSD).

PROJECT COST STATUS

DOLLARS IN THOUSANDS

SCC CODE	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST/ BUDGET VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
10	GUIDEWAY & TRACK ELEMENTS	346,440	-	346,440	-	306,924	-	23,000	-	328,836	(17,605)
20	STATIONS, STOPS, TERMINALS, INTERMODAL	434,990	-	434,990	-	410,368	-	41	-	443,071	8,081
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	-	-	-	-	-	-	-	-	-	-
40	SITWORK & SPECIAL CONDITIONS	553,282	-	553,282	-	529,370	10,830	214,407	-	576,800	23,518
50	SYSTEMS	81,457	-	81,457	-	68,537	-	1,576	-	81,907	450
CONSTRUCTION SUBTOTAL (10-50)		1,416,169	-	1,416,169	-	1,315,199	10,830	239,024	-	1,430,614	14,445
60	ROW, LAND, EXISTING IMPROVEMENTS	426,396	-	426,396	-	230,081	6,918	151,125	-	426,396	-
70	VEHICLES	42,000	-	42,000	-	-	-	-	-	42,000	-
80	PROFESSIONAL SERVICES	374,878	-	374,878	-	175,707	4,490	117,454	-	375,974	1,096
SUBTOTAL (10-80)		2,259,444	-	2,259,444	-	1,720,987	22,237	507,603	-	2,274,984	15,540
90	UNALLOCATED CONTINGENCY	177,176	-	177,176	-	-	-	-	-	161,636	(15,540)
100	FINANCE CHARGES	88,695	-	88,695	-	-	-	-	-	88,695	-
TOTAL PROJECT 865522 (FFGA & NON-FFGA CONCURRENT ACTIVITIES)		2,525,314	-	2,525,314	-	1,720,987	22,237	507,603	-	2,525,314	(0)
ENVIRONMENTAL/PLANNING - 465518 & 465522		4,349	-	4,349	-	3,329	10	2,768	-	4,349	-
TOTAL PROJECT 465518 & 465522 (ENV / PLAN'G)		4,349	-	4,349	-	3,329	10	2,768	-	4,349	-
TOTAL PROJECTS 465518, 465522 & 865522		2,529,664	-	2,529,664	-	1,724,316	22,248	510,371	-	2,529,664	(0)

PROJECT COST ANALYSIS

Original Budget and Current Budget

The Original Budget and Current Budget of \$2.5 billion reflects the Life of Project (LOP) budget approved by the Board on January 26, 2017, plus Finance Charges of \$88.7 million.

Current Forecast

The Current Forecast remains the same this period at \$2.5 billion.

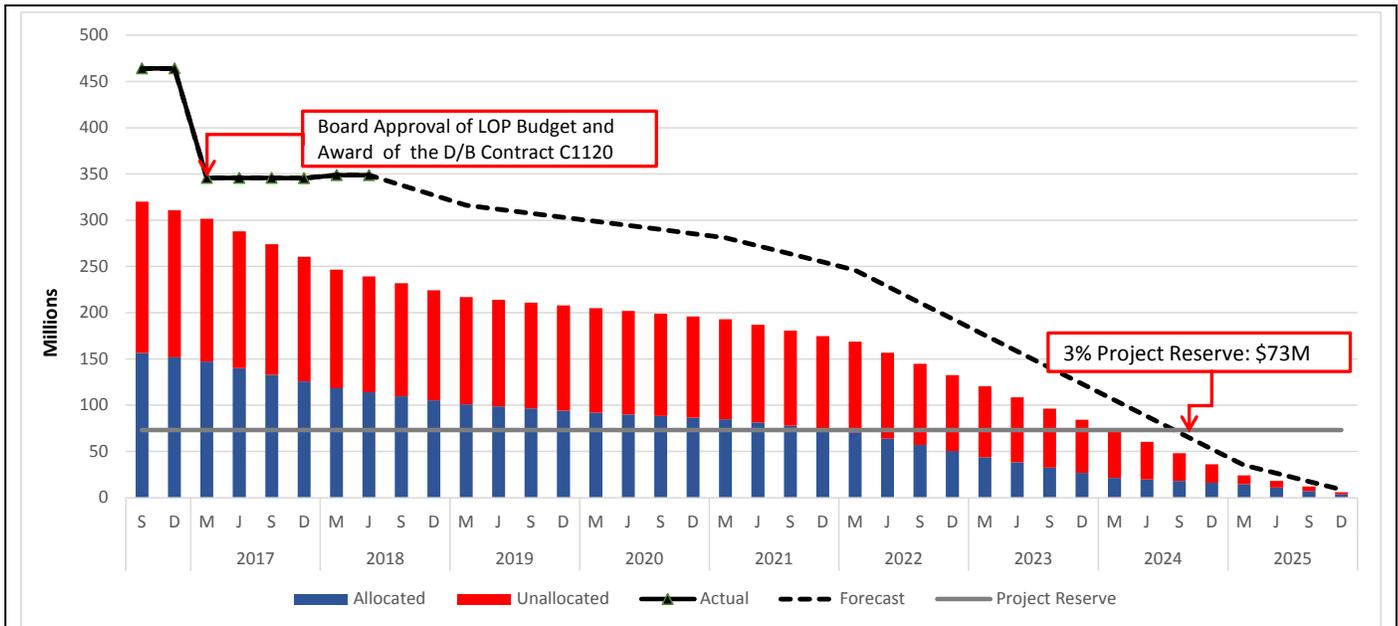
Commitments

The Commitments remain the same this period. The \$1.7 billion in Commitments to date represents 68.1% of the Current Budget.

Expenditures

The Expenditures increased this period by \$22.2 million primarily for costs associated with Design/Build Contract C1120, Real Estate Acquisitions, Memorandum of Agreement with City of Beverly Hills, Metro Project Administration and Engineering Management Services. The \$510.4 million in Expenditures to date represents 20.2% of the Current Budget.

PROJECT COST CONTINGENCY DRAWDOWN



Actuals are through April 2018.

PROJECT COST CONTINGENCY DRAWDOWN ANALYSIS

The Current Budget of \$2.5 billion includes finance charges of \$88.7 million. It also includes a project cost contingency of \$345.7 million or 13.7% of the total project, which is based upon the Life of Project (LOP) Budget approved by the Board in January 2017. An allocated contingency amount of \$168.5 million is included in the total cost contingency. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro where applicable to specific contracts within each Standard Cost Category (SCC).

A 3% project reserve threshold is included in the project cost contingency drawdown. Metro’s Board is to be notified when it becomes necessary to drawdown contingency below the project reserve threshold to cover project costs. This process was adopted by the Metro Board of Directors in September 2012.

The project cost contingency drawdown curve is based on an August 29, 2025 Forecast Revenue Service Date (RSD).

The project contingency remained unchanged this period.

PROJECT COST CONTINGENCY					
DOLLARS IN THOUSANDS					
	Original Contingency (Budget)	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)
Unallocated Contingency	177,176	(15,540)	-	(15,540)	161,636
Allocated Contingency	168,534	18,636	-	18,636	187,170
Total Contingency	345,710	3,096	-	3,096	348,806

**RACE-CONSCIOUS DISADVANTAGED BUSINESS ENTERPRISE
(RC-DBE) STATUS**

Contract C1120

<ul style="list-style-type: none"> RC-DBE Goal – Design A numerically expressed percentage of funds apportioned to Design Contracts and is calculated based upon the relative availability of RC-DBE firms as compared to all firms in the relevant geographic market area. 	25.00%
<ul style="list-style-type: none"> Current RC-DBE Commitment – Design Total RC-DBE Committed Dollars divided by Total Contract Value for Design or Construction. 	\$14,731,914 (25.31%)
<ul style="list-style-type: none"> Current RC-DBE Participation Total amount paid to date to RC-DBEs divided by the amount paid to date to Prime. 	\$6,875,653 (16.08%)

Fifteen (15) Design RC-DBE subcontractors have been identified.

<ul style="list-style-type: none"> RC-DBE Goal – Construction A numerically expressed percentage of funds apportioned to Construction Contracts and is calculated based upon the relative availability of RC-DBE firms as compared to all firms in the relevant geographic market area. 	17.00%
<ul style="list-style-type: none"> Current RC-DBE Commitment – Construction Actual commitments as Construction work is awarded. 	\$77,732,279 (5.99%)
<ul style="list-style-type: none"> Current RC-DBE Participation Total amount paid to date to RC-DBEs divided by the amount paid to date to Prime. 	\$1,245,342 (0.58%)

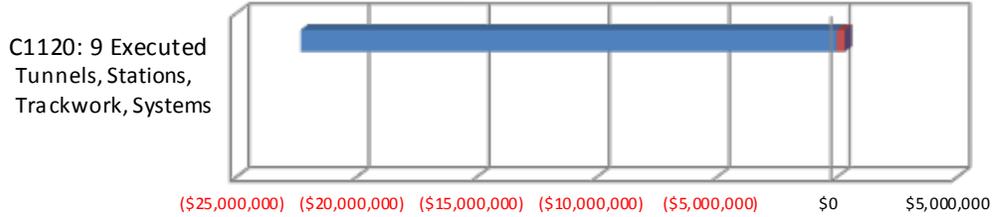
Seven (7) Construction RC-DBE subcontractors have been identified.

PROJECT LABOR AGREEMENTS (PLA) STATUS

TPOG has committed to comply with Project Labor Agreements/Construction Careers Policy (PLA/CCP) requirements for the Project. Project Staff will monitor and report TPOG’s progress toward meeting the goals of the PLA/CCP once construction begins.

SUMMARY OF CONTRACT MODIFICATIONS

Contract Modifications (MODs) by Cost Level



	C1120: 9 Executed
■ Under \$100K	(22,290,979)
■ \$100K to \$250K	334,875
■ \$250K to \$1M	-
■ Over \$1M	-
Total Contract MODs	(21,956,104)
Contract Award Amount	1,376,500,000
% of Contract MODs	(1.6%)

Percent of Contract MODs equals the Total Contract MODs divided by the Contract Award Amount.

Nine (9) Contract Modifications (MODs) with a total value of <\$21.9> million have been executed since the award of C1120 Contract – Tunnels, Stations, Trackwork and Systems.

FINANCIAL/GRANT STATUS

SOURCE	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
	ORIGINAL BUDGET	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS \$	%	EXPENDITURES \$	%	BILLED TO FUNDING SOURCE \$	FUNDING SOURCE %
FEDERAL - SECTION 5309 NEW STARTS	\$1,187.000	\$1,187.000	\$200.000	\$1,045.545	88%	\$174.005	15%	\$174.005	15%
FEDERAL CMAQ	\$169.000	\$169.000	\$43.000	\$43.000	25%	\$26.826	16%	\$26.826	16%
MEASURE R - TIFIA LOAN	\$307.000	\$307.000	\$146.000	\$146.000	48%	\$146.000	48%	\$142.277	46%
MEASURE R 35%	\$811.902	\$811.902	\$206.783	\$435.009	54%	\$108.778	13%	\$89.219	11%
STATE CAPITAL PROJECT LOANS	\$54.762	\$54.762	\$54.762	\$54.762	100%	\$54.762	100%	\$54.762	100%
TOTAL	\$2,529.664	\$2,529.664	\$650.545	\$1,724.316	68.2%	\$510.371	20.2%	\$487.089	19.3%

STATUS OF FUNDS ANTICIPATED

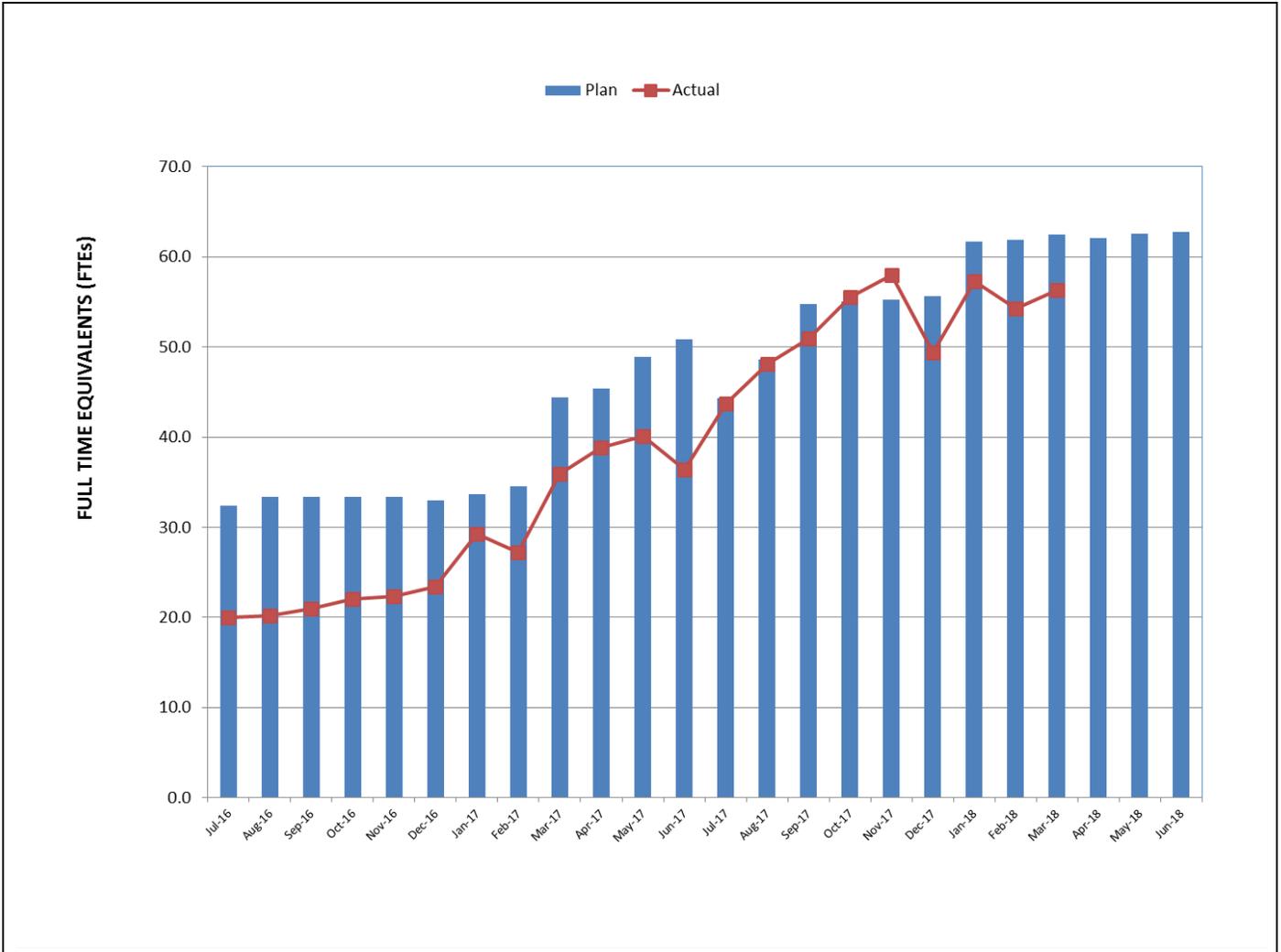
FEDERAL SECTION 5309 NEW STARTS: FTA grant CA-2016-047 for \$100.0 million was awarded by the FTA on December 15, 2016. FTA grant CA-2016-047 Amendment No. 1 for \$100.0 million was awarded by the FTA on September 22, 2017. Funds are available for drawdown.

CMAQ (Congestion Mitigation & Air Quality): FTA grant CA-2016-2045 for \$43.0 million was awarded by the FTA on December 15, 2016. Funds are available for drawdown.

MEASURE R – TIFIA LOAN (Transportation Infrastructure Finance & Innovation Act): TIFIA Loan was executed on December 20, 2016 for \$307.0 million. \$146 million funds are available for drawdown.

MEASURE R: \$206.8 million have been allocated to the Project through FY18. Funds are available for drawdown.

STAFFING STATUS
Total Project Staffing – FTEs

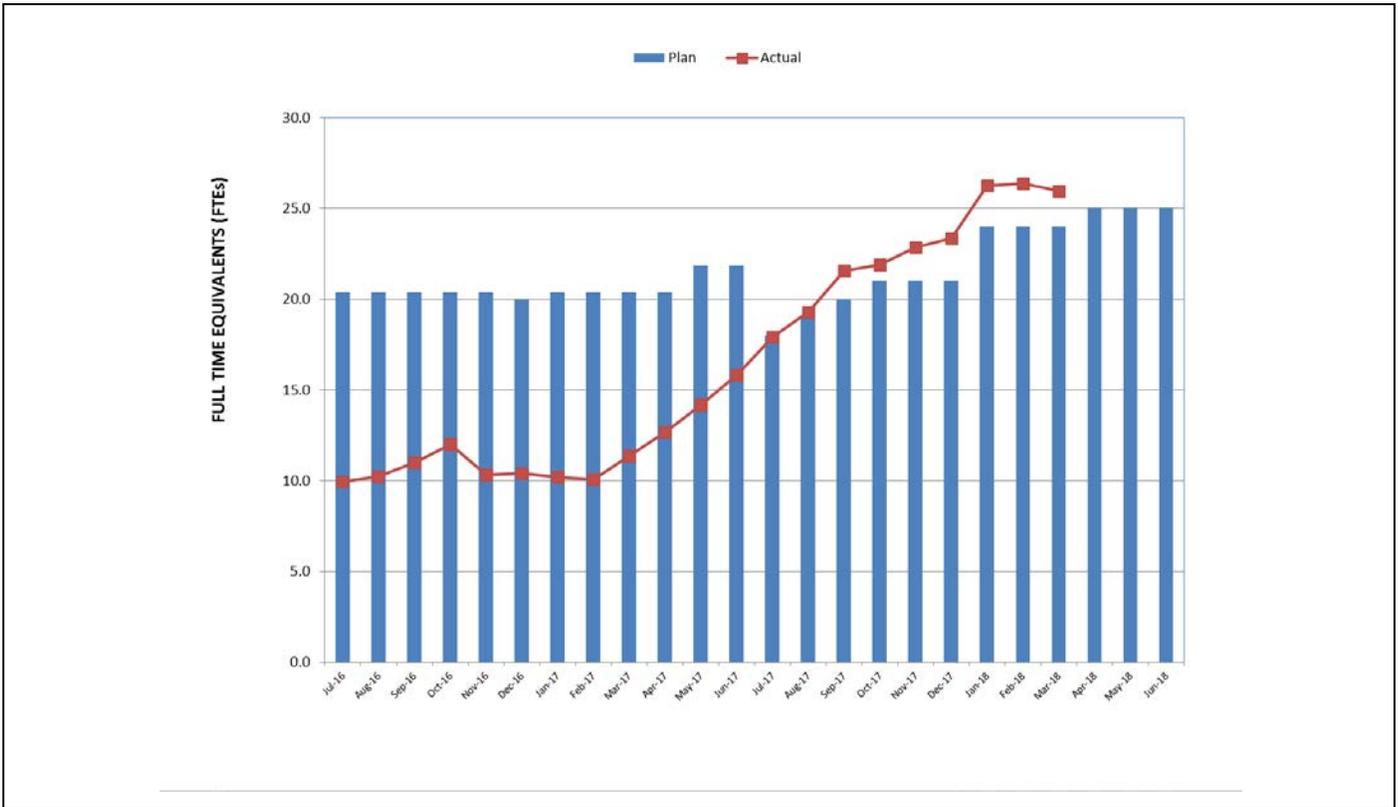


TOTAL PROJECT STAFFING

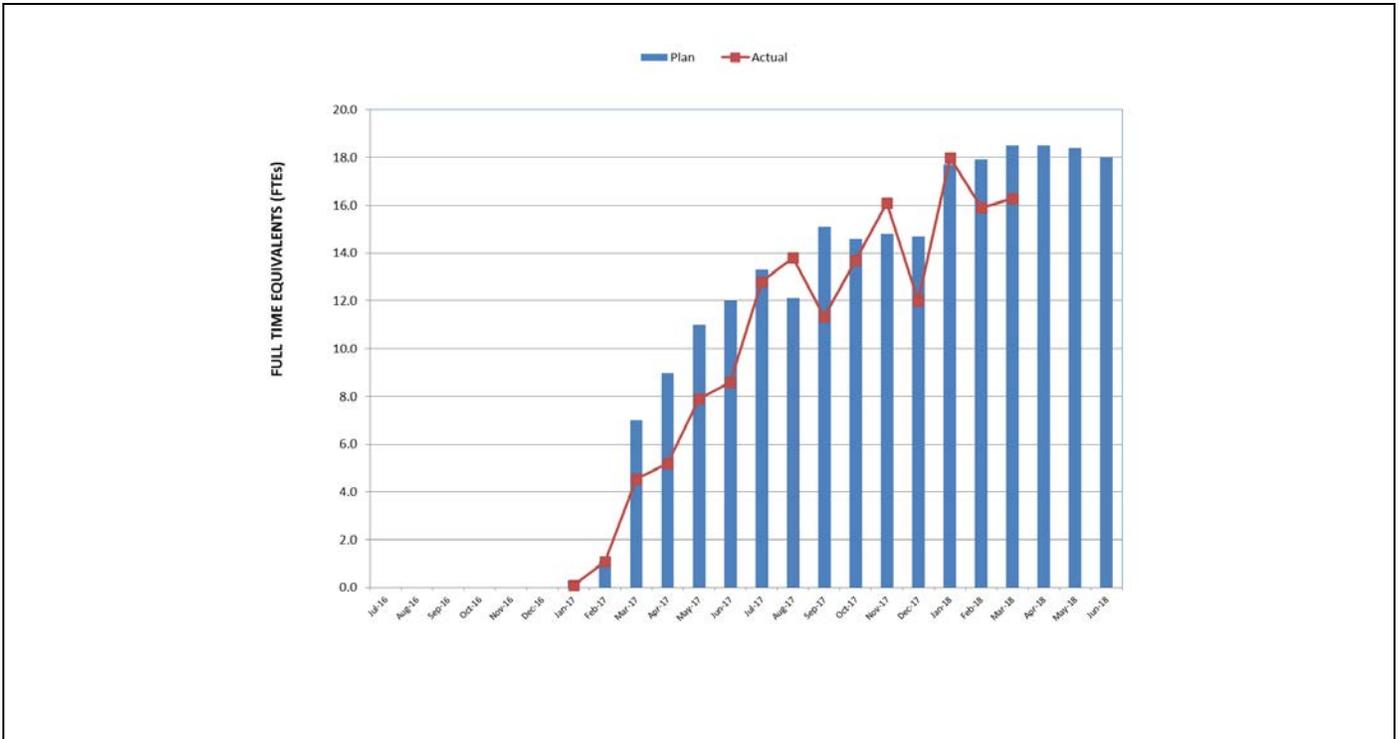
The overall FY18 Total Project Staffing Plan averages 57.3 FTEs per month.

For March 2018, there were a total of 26.0 FTEs for MTA's Project Administration Staff and 30.3 FTEs for Consulting Staff. The total project staffing for March 2018 was 56.3 FTEs.

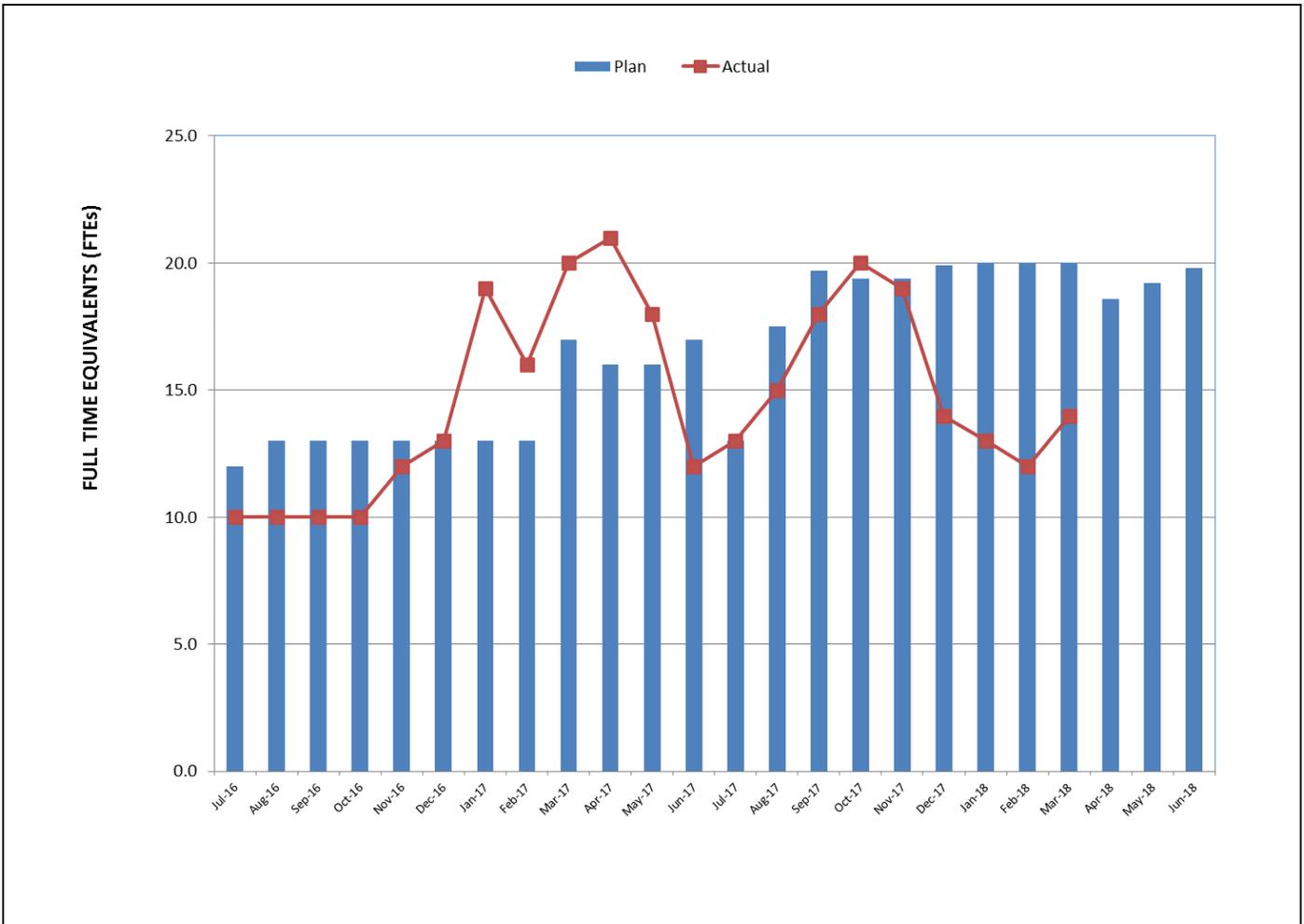
**STAFFING STATUS (Continued)
METRO STAFFING – FTEs**



**CONSTRUCTION MANAGEMENT SUPPORT
SERVICES CONSULTANT – FTEs**



STAFFING STATUS (Continued)
ENGINEERING MANAGEMENT SERVICES CONSULTANT – FTEs



REAL ESTATE STATUS

Real Estate Status Summary									
Description	Number of Parcels	Certified	Appraisals Completed	Offers Made	Agreements Signed	Condemnation Filed	Relocations		Parcels Available
							Required	Completed	
Full Takes	3	3	3	3	1	2	21	21	3
Part Takes	3	1	1	1	1	0	0	0	1
TCE	3	3	1	1	1	1	1	1	2
SSE	23	23	11	11	1	1	3	3	1
Permanent Easements	1	0	0	0	0	0	0	0	0
Total Parcels	33	30	16	16	4	4	25	25	7

QUALITY ASSURANCE STATUS

- Attended weekly project staff meetings and progress meetings with TPOG.
- *Reviewed Daily Inspection Reports for the noise barrier construction at Century City Constellation Station for completeness and correctness.*
- *Conducted April 2018 surveillance for design review activities at STV's (TPOG's design subcontractor) office.*
- *Contributed to the quarterly partnering survey.*
- Reviewed and provided comments on the following with a disposition of Approved as Noted:
 - *TBM Factory Acceptance Testing Checklists (Frontier-Kemper)*
 - *Special Inspector Qualification (Twining)*
 - *Temporary Construction Ventilation Plan (Frontier-Kemper)*
 - *Pre-Construction Survey Plan COLA Facilities (ASC)*
- Reviewed and provided comments on the following with a disposition of Rejected, Revise and Resubmit:
 - *Liquid Level Gages Installation Work Plan (ASC)*
 - *Equipment List for Green Construction Policy (Silverado)*
 - *Product Data for Duct Spaces (Fisk Electrical)*
 - *Portland Cement Concrete QC Plan and Product Data (Lucas Builders)*
- Reviewed and provided comments on the following with a disposition of For Record Only:
 - *Construction Work Plan for Constellation Staging (Lucas Builders)*
 - *Product Data, Lag Bolts, Constellation Staging Area Noise Barriers (Lucas Builders)*
 - *Air Scrubber Product & Operational Data (Frontier-Kemper)*
 - *Flexible Asphalt Paving by American Asphalt for COLA & COBH (Valverde)*

ENVIRONMENTAL STATUS

- Participated in various project pre-construction, construction, and advanced utility relocation meetings and reported on environmental compliance with local, state and federal regulations, specifications and EIR.
- Provided environmental awareness training to advanced utility relocation and TPOG construction staff as required.
- Conducted field environmental monitoring and spot check inspections for construction noise, stormwater and dust BMPs, cultural resources and Metro's Green Construction Policy.
- Participated in various advanced utility relocation and TPOG coordination meetings and evaluated progress and schedules for environmental compliance and sustainability efforts.
- Provided responses to various TPOG submittals and requests for information related to environmental matters.
- Attended and provided guidance at various TPOG and advanced utility relocation construction meetings.
- *Performed noise monitoring activities for advanced utility relocation work and Design/Build contractor work and submitted field reports.*
- *Finalized February 2018 noise monitoring reports for both the City of Los Angeles and the City of Beverly Hills.*
- *Drafted the 12th Quarterly Mitigations Measures Status Report to be submitted to FTA.*

CONSTRUCTION RELATIONS STATUS

- *Attended the following meetings: Construction Management, Advanced Utility Relocations, Construction Relations, Third Party Coordination, Beverly Hills Memorandum of Agreement, Beverly Hills Chamber, and Century City Chamber meetings, Building and Property Manger meeting Century City.*
- Updated Facebook/Twitter and website as needed.
- *Conducted project presentations at the Beverly Hills Monthly Community Meeting, Rodeo Stakeholders meeting, and met with other Beverly Hills businesses one-on-one. Conducted follow up meetings with Century City stakeholders regarding street closure.*
- *Produced and distributed seven pre-construction work notices for advanced utility relocations and abatement.*
- *Continued Eat Shop Play efforts in Century City.*
- *Conducted extensive outreach with the community through three Earth Day events.*

CREATIVE SERVICES STATUS

- Conducted community outreach and coordinated cultural partnerships.
- Refined artwork opportunities with Metro Planning staff.
- *Conducted Art Program briefing for Project team.*

SAFETY & SECURITY STATUS

- Third Party advanced utility relocation work continues. No injuries were reported during this period.
- Monitored Third Party advance utility construction work activities to ensure contractor compliance with regulations and good business practices.
- Attended weekly Project Issues Standing Meetings.
- Attended weekly D/B Progress Meeting.
- Conducted LADWP Water & Power, Southern California Edison (SCE) and SCG Injury and Illness Prevention Program (IIPP) reviews and conducted site safety walks.
- Attended LADWP Water & Power, SCE, AT&T and SCG weekly progress meetings.
- Conducted Safety/Security Workshop and Coordination meetings with TPOG safety staff.
- Conducted meetings with TPOG safety personnel to ensure pre-submittal compliance for adequate contractual construction safety staffing.
- Conducted project safety orientation for new project staff.
- Coordinated and attended TPOG project safety orientation for project staff.
- Conducted over-the-shoulder reviews on safety/security submittal drafts with TPOG safety staff.
- Conducted right-of-way (ROW) and worksite safety/security walks.
- Conducted formal TPOG Project Safety Submittals reviews.
- *Conducted safety walks, safety reviews and coordination with TPOG safety staff for sound wall work activities.*
- *Attended daily TPOG crew toolbox meetings for ongoing field work activities.*
- *Conducted safety reviews for quarterly and monthly project reports.*
- *TPOG Design (16,168 hours) and Construction (8,771 hours) completed 24,939 work-hours for the month of April 2018 with zero recordable incidents. Total Project to Date work-hours are 222,518 with zero recordable incidents.*

THIRD PARTY AGREEMENT STATUS

No.	Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
1	City of Los Angeles (LA)	Master Cooperative Agreement	N/A	N/A	Parties will work under 2003 MCA.
2	City of Beverly Hills (COBH)	Memorandum of Agreement	03/17(A)	03/17(A)	Reimbursement Agreement was executed in March 2017.
			06/17(A)	06/17(A)	Beverly Hills City Council approved the construction permit for SCE work in June 2017.
			11/17(A)	11/17(A)	Beverly Hills City Council approved MOA for remaining third party utility relocations on November 22, 2017.
			07/18	07/18	Metro continues to work with the City to establish an MOA for the C1120 Design/Build contract. Required Need Date reflects turnover date to C1120 contractor for station footprint availability.
3	Los Angeles Department of Water and Power (LADWP)- Water & Power	Master Cooperative Agreement	N/A	N/A	Metro and LADWP will continue to work under the terms of the previous Master Cooperative Agreement.
4	Los Angeles County Public Works Flood Control	Letter of Agreement	N/A	N/A	Executed.
5	Private Utilities	Utility Cooperative Agreement	N/A	N/A	AT&T, Pac Bell, SBC, MCI, Verizon, Southern California Gas Company (SCGC), TCG Los Angeles – Metro is working under existing agreements.
			06/18	06/18	Time Warner, Level 3 and Century Link have combined. Metro is currently working on a master joint agreement with all parties. SCE – Metro and SCE have initiated a new agreement. A draft is under review. <i>Veolia (now known as Enwave) – In circulation for signatures with Enwave.</i> Sprint – A draft of the Agreement has been submitted to Sprint, pending comments.
			11/17(A)	11/17(A)	Zayo, XO Communications, LLC – Agreement in circulation with XO.

ADVANCED UTILITY RELOCATION STATUS

Century City Constellation

- *LADWP Power utility relocations are ongoing, and civil work is 75% complete.*
- *AT&T duct bank and vault construction began in November 2017. Construction is anticipated to complete in Summer 2018 followed by cable pulling and splicing.*

Wilshire/Rodeo

- *AT&T and SCG work began on February 12, 2018 and is ongoing. Completion for both utilities including cable pulling and splicing is anticipated in Summer 2018.*

PEAK HOUR AND NIGHTTIME CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate the Project's needs. Metro staff is working with the City of Los Angeles Bureau of Engineering (BOE) and the Los Angeles Police Commission to obtain Peak Hour Exemptions and Nighttime Construction Variances.

- *A nighttime noise variance permit for relocation of third party utilities on Constellation Boulevard is approved through August 2018.*
- *Peak Hour Exemption application for the TBM launch box excavation on Constellation Boulevard was approved by BOE on January 30, 2018.*

CHRONOLOGY OF EVENTS

August 2012	FTA Record of Decision
January 2013	FTA approval to enter to Preliminary Engineering
December 2014	FTA approval to enter to New Starts Engineering Phase
March 2015	Began Real Estate Acquisition
May 2015	Began Advanced Preliminary Engineering
September 2015	Issued RFQ for C1120 Design/Build contract
October 2015	Received RFQ responses for C1120 Design/Build contract
May 2016	Submitted draft FFGA application
May 2016	Submitted TIFIA loan application
June 2016	Submitted application to FTA requesting an FFGA
June 2016	Received RFP Proposals for Contract C1120
September 2016	Began telecom joint trench construction in Century City
December 2016	FTA executed FFGA
December 2016	Received TIFIA Loan
January 2017	NTP for Construction Management Support Services Contract
January 2017	Metro Board approved staff recommendation to award the Design/Build Contract C1120 to Tutor Perini/O&G, a Joint Venture (TPOG) and approved Life-of-Project Budget
January 2017	Issued C1120 Contract Award TPOG
April 2017	Issued C1120 Contract NTP to TPOG
May 2017	Mobilized C1120 Contract Design and Construction Team
August 2017	Third party relocations started at Century City Constellation Station
September 2017	Third party relocations started at the Wilshire/Rodeo Station
November 2017	Beverly Hills City Council approved Memorandum of Agreement (MOA)

	governing remaining third party utility relocations
December 2017	Final Supplemental Environmental Impact Statement (FSEIS) was available to the public in the Federal Registry on December 1, 2017
January 2018	Completed all utility relocations within the Tunnel Boring Machine “Launch Box”
February 2018	Held Groundbreaking Ceremony on February 23, 2018

CONTRACT C1120 STATUS

<p>Description: Purple Line Extension Design-Build Contractor: Tutor Perini/O&G a Joint Venture (TPOG)</p>	<p>Contract No. C1120 Status as of: April 27, 2018</p>																																									
<p>Progress / Work Completed:</p> <ul style="list-style-type: none"> - 60% Design Package 3 (Rodeo Structure) - Partnering workshop with City of Los Angeles (March 22, 2018) - AT&T parking structure demolition agreement was executed <p>Areas of Concern:</p> <ul style="list-style-type: none"> - Timely completion of negotiations with the City of Beverly Hills (COBH) for Memorandum of Agreement (MOA) governing work performed by TPOG 	<p>Major Activities (In Progress):</p> <ul style="list-style-type: none"> - Century City Constellation Main Entrance Design - Resubmittal of 100% Design - Support of Excavation (SOE) for Tunnel TBM Launch Box & Tunnel Shaft - 60% Design Package 3 (Constellation Station) - Over-the-shoulder reviews for Storm Water Pollution Prevention Plan - Negotiations with COBH for MOA for the C1120 Contract - Design of precast lining for the Special Lining Section - COBH permits for ACE Gallery demolition scheduled for June 5, 2018 - Adoption of nine-month closure by City of Los Angeles Board of Public Works <p>Major Activities Next Period:</p> <ul style="list-style-type: none"> - Storm Water Pollution Prevention Plan Approval - Issued for Construction drawings: SOE for TBM Launch Box & Tunnel Shaft - 85% Electrical Design - Metro/TPOG Partnering Session for key staff - Begin demolition of 1940 and 1950 Century Park East 																																									
<p>Schedule Summary:</p> <p>Date of Award: 01/30/17</p> <p>Notice to Proceed: 04/26/17</p> <p>Original Contract Duration: 3,100 CD</p> <p>Current Contract Duration: 3,100 CD</p> <p>Elapsed Time from NTP: 367 CD</p>	<table border="1"> <thead> <tr> <th></th> <th>Original Contract Dates</th> <th>Time Extension</th> <th>Current Contract</th> <th>Forecast</th> <th>Variance CDs</th> </tr> </thead> <tbody> <tr> <td>Notice to Proceed</td> <td>04/26/17</td> <td>0</td> <td>04/26/17</td> <td>04/26/17</td> <td>0</td> </tr> <tr> <td>MS 1 (NTP + 2950): Substantial Completion</td> <td>05/23/25</td> <td>0</td> <td>05/23/25</td> <td>05/23/25</td> <td>0</td> </tr> <tr> <td>MS 2 (NTP + 2600): Stations Available to UFS for Install of Equip</td> <td>06/07/24</td> <td>0</td> <td>06/07/24</td> <td>06/07/24</td> <td>0</td> </tr> <tr> <td>MS 3 (NTP + 2700): Ready for Systems Integration Testing</td> <td>09/15/24</td> <td>0</td> <td>09/15/24</td> <td>09/15/24</td> <td>0</td> </tr> <tr> <td>MS 4 (NTP + 3100): Demobilization</td> <td>10/20/25</td> <td>0</td> <td>10/20/25</td> <td>10/20/25</td> <td>0</td> </tr> </tbody> </table>							Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	Notice to Proceed	04/26/17	0	04/26/17	04/26/17	0	MS 1 (NTP + 2950): Substantial Completion	05/23/25	0	05/23/25	05/23/25	0	MS 2 (NTP + 2600): Stations Available to UFS for Install of Equip	06/07/24	0	06/07/24	06/07/24	0	MS 3 (NTP + 2700): Ready for Systems Integration Testing	09/15/24	0	09/15/24	09/15/24	0	MS 4 (NTP + 3100): Demobilization	10/20/25	0	10/20/25	10/20/25	0
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<p>Physical Percent Complete:</p> <p>Physical completion: 6.79%</p> <p><i>Note 1: Physical completion assessment reflects work completed and work in progress.</i></p> <p><i>2: Physical completion includes Final Design.</i></p>	<p>Cost Summary: \$ In millions</p> <table> <tr> <td>1. Award Value:</td> <td>1,376.5</td> </tr> <tr> <td>2. Executed Modifications:</td> <td>(22.0)</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td>3.3</td> </tr> <tr> <td>4. Current Contract Value (1+2+3):</td> <td>1,357.9</td> </tr> <tr> <td>5. Incurred Cost:</td> <td>288.4</td> </tr> </table>						1. Award Value:	1,376.5	2. Executed Modifications:	(22.0)	3. Approved Change Orders:	3.3	4. Current Contract Value (1+2+3):	1,357.9	5. Incurred Cost:	288.4																										
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CONSTRUCTION PHOTOGRAPHS

AT&T Cradle Installation in Century City



SCG Utility Work in Beverly Hills



**APPENDIX
COST AND BUDGET TERMINOLOGY**

Project Cost Descriptions

ORIGINAL BUDGET	The Original Project Budget as authorized by the Metropolitan Transportation Authority (Metro) Board.
CURRENT BUDGET	The Original Budget plus all budget amendments approved by formal Metro Board action. Also referred to as Approved Budget.
COMMITMENTS	The total of actual contracts awarded, executed change orders or amendments, and approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other Metro actions which have been spent or result in the obligation of specific expenditures at a future time.
EXPENDITURES	The total dollar amount of funds expended by Metro for contractor or consultant services, third party services, staff salaries, real estate and other expenses that is reported in Metro's Financial Information System (FIS).
CURRENT FORECAST	The best estimate of the final cost of the Project when all checks have been issued and the Project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for each budgeted cost item.

Cost Report by Element Descriptions

CONSTRUCTION	Includes construction contracts. Cost associated with Guideways, Stations, Southwestern Yard, Sitework/Special Conditions and Systems.
RIGHT-OF-WAY	Includes purchase cost of parcels, easements, right-of-entry permits, escrow fees, contracted real estate appraisals and tenant relocation.
VEHICLES	Includes the purchase of Heavy Rail Vehicles and spare parts for the Project.
PROFESSIONAL SERVICES	Includes design engineering, project management assistance, construction management support services, legal counsel, agency staff costs, and other specialty consultants.
CONTINGENCY	A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the Project.
PROJECT REVENUE	Includes all revenue received by Metro as a direct result of project activities. This includes cost sharing construction items, insurance premium rebates, and the like.

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS

ATC	Automatic Train Control
ATSAC	Automated Traffic Surveillance and Control
BAFO	Best and Final Offer
BIM	Building Information Modeling
BNSF	Burlington Northern Santa Fe Railway Company
BRT	Bus Rapid Transit
CADD	Computer Aided Drafting and Design
CALTRANS	California Department of Transportation
CCTV	Closed Circuit Television
CD	Calendar Day
CEQA	California Environmental Quality Act
CM	Construction Manager
CMAQ	Congestion Mitigation and Air Quality Improvement Program
CMSSC	Construction Management Support Services Consultant
CN	Change Notice
CO	Change Order
COBH	City of Beverly Hills
COLA	City of Los Angeles
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CR	Camera Ready
CRMMP	Cultural Resource Monitoring and Mitigation Plan
CSPP	Construction Safety Phasing Plan
CTC	California Transportation Commission
CUD	Contract Unit Description
D/B	Design/Build
DBB	Design Bid Build
DOT	Department of Transportation
DWP	Department of Water and Power
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMS	Engineering Management Services
EPBM	Earth Pressure Balance Machine
FAA	Federal Aviation Administration
FAR	Federal Acquisition Regulation
FD	Final Design
FEIS	Final Environmental Impact Statement
FEIR	Final Environmental Impact Report
FIS	Financial Information System
FLSR	Fire Life Safety Report
FONSI	Finding of No Significant Impact
FRA	Federal Railroad Administration
FSEIR	Final Supplemental Environmental Impact Report
FSEIS	Final Supplemental Environmental Impact Statement

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

FTA	Federal Transit Administration
FTE	Full Time Equivalent
GBR	Geotechnical Baseline Report
GDSR	Geotechnical Design Summary Report
HRT	Heavy Rail Transit
HRV	Heavy Rail Vehicle
IFB	Invitation for Bid
IPMO	Integrated Project Management Office
JV	Joint-Venture
LA	Los Angeles
LABOE	Los Angeles Bureau of Engineering
LABOS	Los Angeles Bureau of Sanitation
LABSL	Los Angeles Bureau of Street Lighting
LACFCD	Los Angeles County Flood Control District
LACMTA	Los Angeles County Metropolitan Transportation Authority
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAUSD	Los Angeles Unified School District
LAWA	Los Angeles World Airports
LAX	Los Angeles International Airport
LNTP	Limited Notice To Proceed
LONP	Letter Of No Prejudice
LOP	Life-of-Project
LPA	Locally Preferred Alternative
LRTP	Long Range Transportation Plan
MCA	Master Cooperative Agreement
MIS	Major Investment Study
MMRP	Mitigation Monitoring and Reporting Plan
MOU	Memorandum of Understanding
MPSR	Monthly Project Status Report
N/A	Not Applicable
NEPA	National Environmental Protection Act
NOD	Notice of Determination
NPDES	National Pollution Discharge Elimination System
NTE	Not to Exceed
NTP	Notice To Proceed
OCC	Operations Control Center
OSHA	Occupational Health and Safety Administration
PA/VMS	Public Address/Visual Messaging Sign
PE	Preliminary Engineering
PEER	Permit Engineering Evaluation Report
PIP	Project Implementation Plan
PLA	Project Labor Agreement

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

PM	Project Manager
PMIP	Project Management Implementation Plan
PMOC	Project Management Oversight Consultant
PMP	Project Management Plan
P&P	Policies & Procedures
PR	Project Report
PRMMP	Paleontological Resource Monitoring Mitigation Plan
PSR	Project Study Report
QA	Quality Assurance
QAR	Quality Assurance Report
QC	Quality Control
QPSR	Quarterly Project Status Report
QTIB	Qualified Transit Improvement Bonds
RAMP	Real Estate Acquisition Management Plan
RCHAR	Rail Crossing Hazards Analysis Report
RCMP	Risk Assessment Management Plan
RFC	Request For Change
RFP	Request For Proposals
RFSC	Request for Special Consideration
RHA	Risk Hazard Analysis
ROC	Rail Operations Center
ROD	Record Of Decision
ROM	Rough Order of Magnitude
ROW	Right-Of-Way
RPZ	Runway Protection Zone
RSD	Revenue Service Date
SAV	Stand Alone Validator
SCAQMD	Southern California Air Quality Management District
SCADA	Supervisory Control and Data Acquisition
SCC	Standard Cost Category
SCE	Southern California Edison
SCG	Southern California Gas Company
SCRRA	Southern California Regional Rail Authority
SHA	State Highway Account
SHPO	State Historic Preservation Office
SIT	System Integration Testing
SOQ	Statement of Qualification
SOV	Schedule Of Value
SOW	Statement Of Work
SP	Special Provision
SSMP	Safety and Security Management Plan
STB	Surface Transportation Board
STIP	State Transportation Improvement Program
STP	Surface Transportation Program

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

STV	STV Group
SWPPP	Storm Water Pollution Prevention Plan
TBD	To Be Determined
TBM	Tunnel Boring Machine
TCE	Temporary Construction Easement
TCRP	Traffic Congestion Relief Program
TIFIA	Transportation Infrastructure Finance and Innovation Act
TIGER	Transportation Investment Generating Economic Recovery
TPOG	Tutor Perini/O&G a Joint Venture
TPSS	Traction Power Substation
TRACS	Transit Automatic Control System
TVA	Threat Vulnerability Analysis
TVM	Ticket Vending Machine
UFS	Universal Fare System
USDOT	United States Department Of Transportation
VE	Value Engineering
WBS	Work Breakdown Structure
WP	Work Package
YOE	Year of Expenditure