Westside Purple Line Extension Section 2 Project



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MONTHLY PROJECT STATUS REPORT

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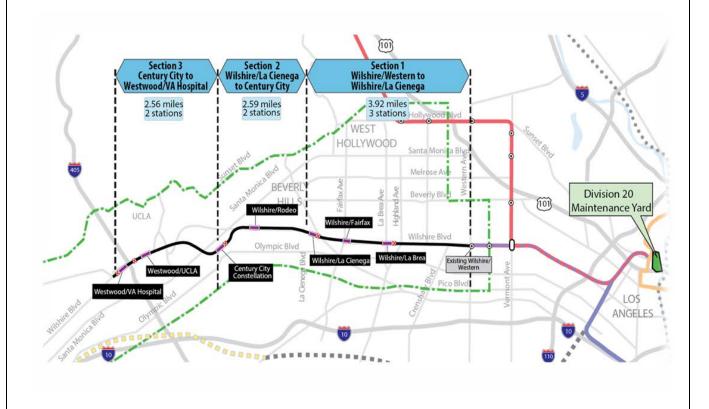
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PROJECT OVERVIEW

Project Background

The Westside Purple Line Extension Section 2 Project is the second of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority's (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 Century City. 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, two new stations as well as the purchase of 20 heavy rail vehicles. The Wilshire/Rodeo Station is within the jurisdiction of City of Beverly Hills and the Century City Constellation Station is within the jurisdiction of City of Los Angeles. 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.



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.

Major Procurements

<u>Contract C1120 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing:</u> 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 machine (TBM) launch 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.

Metro Furnished Equipment

Metro has procured a contract to provide 20 Heavy Rail Vehicles (HRV) necessary to operate the extension to the Purple Line. An additional contract will be procured for the Universal Fare System (UFS). 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 three stations and system testing.

Program Management

The Westside Purple Line Extension Section 2 Project is being managed under the direction of an Integrated Project Management Office (IPMO). WSP provides engineering and design support services, while Purple Line 2 CM Partners, A Joint Venture provides

construction management support services. An overview of staffing is provided under the Staffing section of this report. The program management team is also supported by Metro headquarters' resources and includes engineering, risk management, environmental, quality management, operations and creative services departments.

<u>Project Schedule and Budget:</u> The Revenue Service Date (RSD) is planned for August 2025.

On January 26, 2017, the Metro Board approved the Life of Project (LOP) Budget for the Westside Purple Line Extension Section 2 Project 865522 for \$2.4 billion excluding Finance Charges of \$88.7 million. A detailed Life of Project Budget forecast is included under the Budget and Cost Forecast section of this report.

Funding has been secured from a variety of sources to include:

- Federal Section 5309 New Starts
- Federal CMAQ (Congestion Mitigation & Air Quality)
- Measure R TIFIA Loan (Transportation Infrastructure Finance & Innovation Act)
- Measure R 35%
- State Capital Projects Loans

<u>Construction and Community Relations:</u> The Construction and Community Relations team is tasked with promoting the Project and performing public outreach within the community to keep stakeholders informed of construction activities occurring along the Project alignment. To facilitate the communication, community leadership councils have been formed which represent geographic-based constituent groups along the Project.

The Project is also engaged in social media outreach and various marketing and advertising efforts designed to keep the public informed and excited about the Project. These efforts are aimed at promoting businesses that are affected by construction. An overview of monthly activities is presented in the Construction and Community Relation section of this report.

<u>Start Up:</u> 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.

EXECUTIVE SUMMARY

In August 2018, the Project achieved 10.6% completion based on earned value measurements for design and construction. The focus of the Project is completing final design and third party utility relocations. The C1120 Design Build Contract is on schedule to substantially complete by May 23, 2025 and demobilized by October 20, 2025. The forecast Revenue Service Date (RSD) for the Project remains August 2025. The following is an overview of current design and construction activities.

Design Status

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
 - (Volume 2) Stations
 - (Volume 3) Track & Systems

Metro, TPOG and STV have been working together to identify advanced partial design units for the abovementioned design packages 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: Standard Tunnel Liner, 100%; Launch Box Temporary Utilities and Street, 100%; Trackwork, 85%, Wilshire/Rodeo Station Structural and Architectural/MEP, 85%; Systems, 85%; Wilshire/Rodeo Station Street Restoration, 85%; Launch Box Traffic Control and Staging Yard Driveway, AFC; and SOE Muck Bin, 100%.

Construction Status

Century City Constellation Advanced Utility Relocations: LADWP Power civil work began in May 2017 and is 95% complete. *AT&T duct bank and vault construction began in November 2017 and are anticipated to complete in October 2018*. Cable pulling and splicing to follow for both utilities with an anticipated completion in November 2019.

Wilshire/Rodeo Advanced Utility Relocations: Southern California Gas (SCG) and AT&T work started on February 12, 2018, is ongoing and anticipated to complete in October 2018. TPOG is responsible for Traffic Control Plans for this scope of work.

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 cross-passage borings have been completed to date. Pre-construction surveys are ongoing. Geotechnical fault line (seismic) boring investigations started in May 2018, and 10 out of 20 have been completed. The 10 remaining contractually required seismic fault line borings are scheduled to begin this fall.

Site preparation work at the future Wilshire/Rodeo Station entrance started in May 2018.

Demolition of the 1940 Century Park East building and parking structure as well as the 1950 Century Park East parking structure have been completed. Oil line removal started in late May 2018 and is ongoing. Sound wall installation at 2040 Century Park East (construction staging area) is in progress.

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.

Beverly Hills City Council approved the Memorandum of Agreement (MOA) governing remaining third party utility relocation work on November 22, 2017. The final MOA for the C1120 contract was approved at the Beverly Hills City Council Meeting on August 21, 2018 but execution of the agreement was made contingent on reaching a settlement agreement related to the NEPA lawsuit.

Cost and Schedule Summary

For the C1120 Design/Build contract, Metro has received the August 2018 schedule update, which reports that the project is on schedule to complete by the May 23, 2025 contract substantial completion date.

The Critical Path (CP) of the Project runs through third party utility relocations at Century City Constellation Station, Contractor's required utility relocations, then followed by SOE, street decking, mass excavation and structural concrete for the station. Next it flows into installation of the interior finishes and electrical equipment, followed by Systems, Testing and Pre-Revenue Operations. A summary graphic of the critical path is found on Page 13.

C1120 Design-Build Contract Schedule Metrics

	Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
Notice to Proceed	04/26/17A	0	04/26/17A		0
Substantial Completion	05/23/25	0	05/23/25	05/23/25	0

Project costs continue to track within budget and projected contingency limits. To date, the Current Budget and Current Forecast remains the same this period at \$2.5 billion. There are no claims on the Project. Detailed cost and budget information is provided on Page 15.

Key Management Concerns

No concerns to report at this time.

Project Construction Photos



Unloading Steel Posts for Sound Wall at 1940 CPE

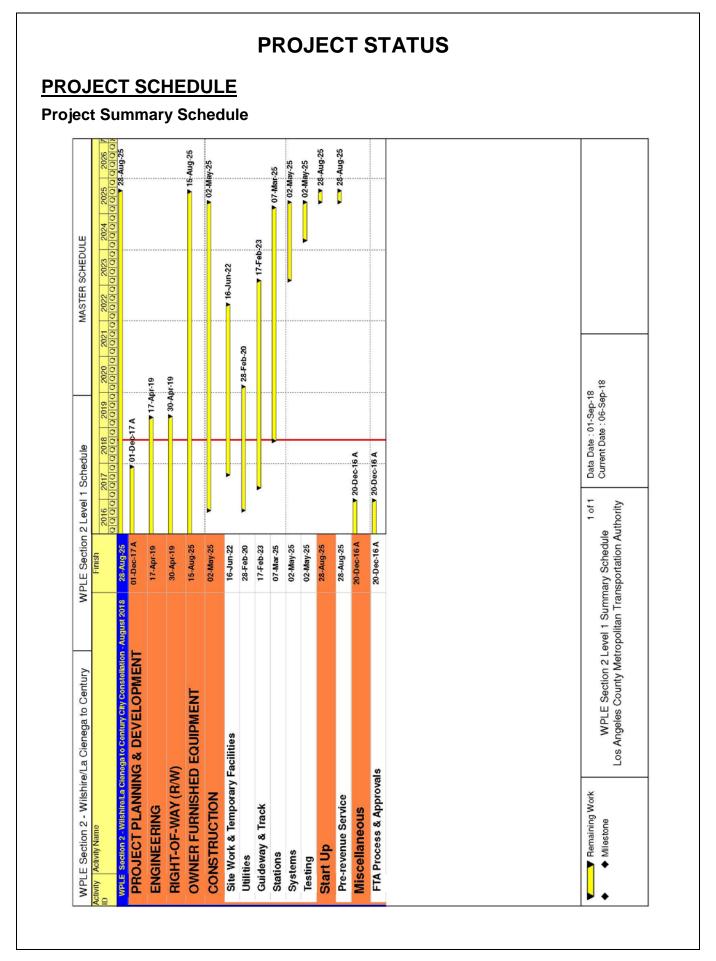


SCG Gas Pipe Excavation in Beverly Hills



Staging Area Site Preparation at 1940 CPE



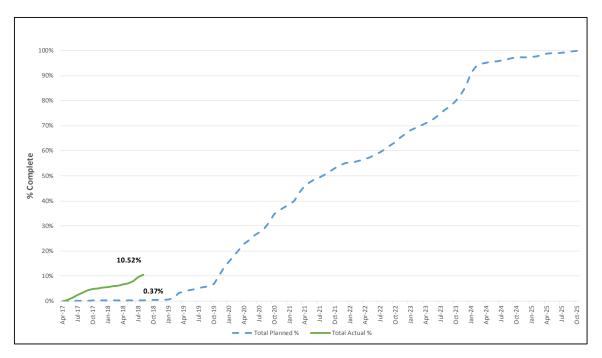


Progress Summary

	Status	Change from Last Period	Comment
Forecast Revenue Service Date	8/29/2025	None	
TIFIA Revenue Service Date	12/31/2026	None	
FFGA Revenue Service Date	12/31/2026	None	
Final Design Progress:			
Contract C1120	80.2%	2%	Not impacting the critical path
Construction Contracts Progress:			
Contract C1120	10.5%	1.73%	

Note: Construction Progress excludes of General Requirements, Construction and Design Mobilization, Final Design and Provisional Sum costs (Schedule C). Progress values include executed modifications and change orders.

Planned vs. Actual Progress



The actual overall construction progress is 10.52% versus a planned of 0.37% through August 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.

Submit 85% Design Package 3 Vol 3 - Track & Systems Submit 85% Design Package 3 Volume 1 - Wilshire/Rodeo Structure Present MOA to Beverly Hills City Council TBM Temporary Power - Start Install Conduit & Substructure	Milestone Date 08/10/18 A 08/21/18 A 08/21/18 A	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
Submit 85% Design Package 3 Volume 1 - Wilshire/Rodeo Structure Present MOA to Beverly Hills City Council TBM Temporary Power - Start Install Conduit & Substructure	08/21/18 A 08/21/18 A	○◆					
Structure Present MOA to Beverly Hills City Council TBM Temporary Power - Start Install Conduit & Substructure	08/21/18 A	□→					
TBM Temporary Power - Start Install Conduit & Substructure 0		•					
	08/25/18 A						
Submit AFC Drawings - SOE Wilshire/Rodeo Station							
	09/06/18						
Start Demolition of ACE Gallery building at Wilshire/Rodeo Station	09/20/18						
Begin Full Street Closure - Constellation Blvd	09/21/18						
Start Delivery of Tunnel Boring Machines (TBMs)	09/28/18						
Submit IFC Drawings for Design Package 1 - Utility/Civil Design at Launch Box in Century City	10/01/18						
Complete Third Party Utility Relocations at Wilshire/Rodeo	10/02/18			Δ			
Start Installation of Soldier Piles - Launch Box at Century City	10/09/18						
Start Construction Bus Layover Facility on Santa Monica Blvd.	10/11/18						
Start Installation of Deck Panels - Launch Box at Century City	11/08/18				\bigcirc		
Start Installation of Soldier Piles - Tunnel Shaft in Century City	11/27/18						
Start Constellation Launch Box Mass Excavation	01/03/19						
Start Installation of Soldier Piles - Wilshire/Rodeo Station	01/14/19						
MTA Staff C1120 D/B Contractor A" following date is actual and completed	∖ Other Ager	ncies					

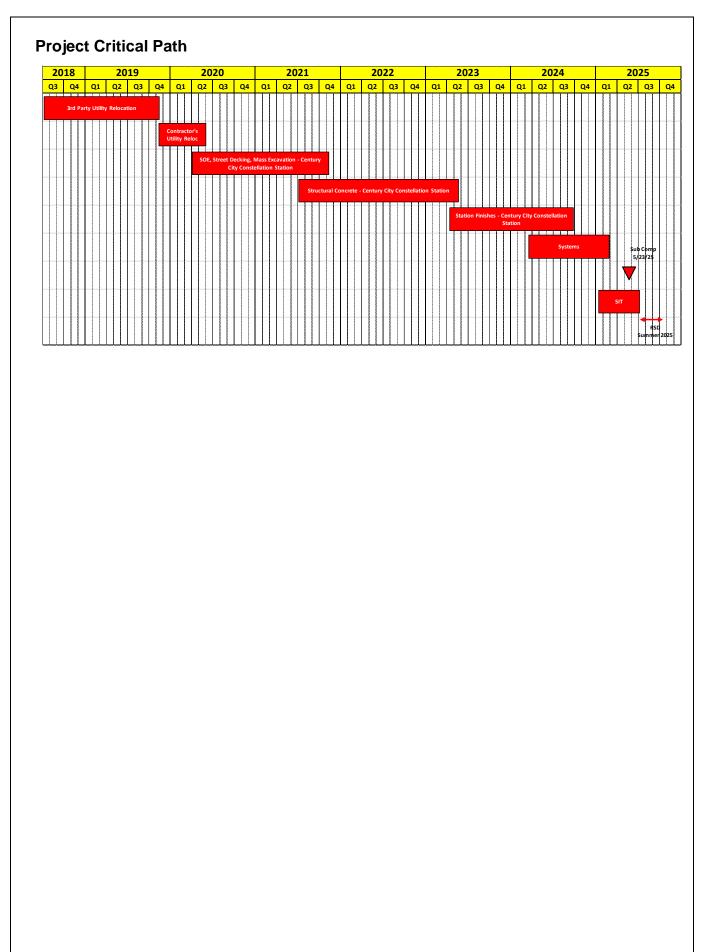
Major Equipment Delivery Status

	Submittal	Procurement	Delivery	Installation
C1120 DESIGN/BUILD*				
Tunnel Boring Machine	7/27/17A	8/14/2017A	9/28/18	6/14/19
Emergency Ventilation Fans	1/25/19	2/27/19	7/3/19	3/23/21
Station Elevators/Escalators	2/20/19	3/25/19	3/17/20	1/29/21
Track - Running Rail	4/15/19	5/16/19	9/9/19	9/30/21
Traction Power Equipment	5/9/19	6/12/19	2/19/20	1/27/21
Automatic Train Control	10/31/18	12/3/18	7/3/19	1/26/21
SCADA RTU System	11/6/18	12/7/18	7/10/19	4/14/21
Radio System	11/30/18	12/31/18	7/31/19	4/14/21
Heavy Rail Vehicles***		Exercise Option #3 I	March 1, 2021	
Universal Fare System***	TBD	TBD	TBD	June 2023**

^{*} Dates derived from TPOG's August 2018 Updated Schedule.

^{**} Forecast release date by TPOG to UFS contractor access at stations.

^{***} Metro supplied equipment

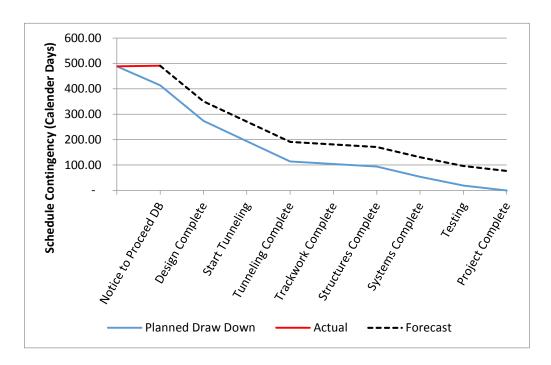


Project Schedule Contingency Drawdown Analysis

The project schedule contingency drawdown model provides a dual-axis perspective based upon the FFGA RSD of December 2026 and Metro's Project Master Schedule (PMS) forecast of August 2025.

The introduction of the PMS model axis reflects a proportional distribution of available float relative to the FFGA model.

With regard to the FFGA RSD, schedule float of sixteen months has been maintained.



PROJECT COST

Project Cost Analysis - 865522

DOLLARS IN THOUSANDS

SCC CODE	THE CHIPTION I		CURRENT	BUDGET	СОММІТ	TMENTS	EXPEND	ITURES	CURRENT	FORECAST	FORECAST/ BUDGET
OODL			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	346,440		328,836		306,924	27	24,204		328,836	-
20	STATIONS, STOPS, TERMINALS, INTERMODAL	434,990	-	443,071	-	410,368	7,872	8,112	-	443,071	-
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS		-			-		1	-	-	-
40	SITEWORK & SPECIAL CONDITIONS	553,282		576,800	901	538,908	8,908	249,424		576,800	-
50	SYSTEMS	81,457	-	81,907	-	68,537	992	4,650	-	81,907	-
	CONSTRUCTION SUBTOTAL (10-50)	1,416,169	٠	1,430,614	901	1,324,736	17,799	286,390	٠	1,430,614	-
60	ROW, LAND, EXISTING IMPROVEMENTS	426,396	-	426,396	-	230,081	985	152,823	-	426,396	-
70	VEHICLES	42,000	-	42,000	-	-		1	-	42,000	-
80	PROFESSIONAL SERVICES	374,878	-	375,974	13,011	192,795	3,276	140,432	-	375,974	-
	SUBTOTAL (10-80)	2,259,444	-	2,274,984	13,912	1,747,612	22,060	579,645	-	2,274,984	-
90	UNALLOCATED CONTINGENCY	177,176	-	161,636		-			-	161,636	-
100	FINANCE CHARGES	88,695	-	88,695	-	-			-	88,695	-
OTAL PR	OJECT 865522 (FFGA & NON-FFGA CONCURRENT ACTIVITIES)	2,525,314		2,525,314	13,912	1,747,612	22,060	579,645		2,525,314	-
	ENVIRONMENTAL/PLANNING - 465518 & 465522	4,349	-	4,349	441	3,770	79	2,969	-	4,349	-
	TOTAL PROJECT 465518 & 465522 (ENV / PLAN'G)	4,349		4,349	441	3,770	79	2,969		4,349	-
	TOTAL PROJECTS 465518, 465522 & 865522	2,529,664		2,529,664	14,353	1,751,382	22,139	582,613		2,529,664	-

Original Budget

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

Current Budget and Current Forecast

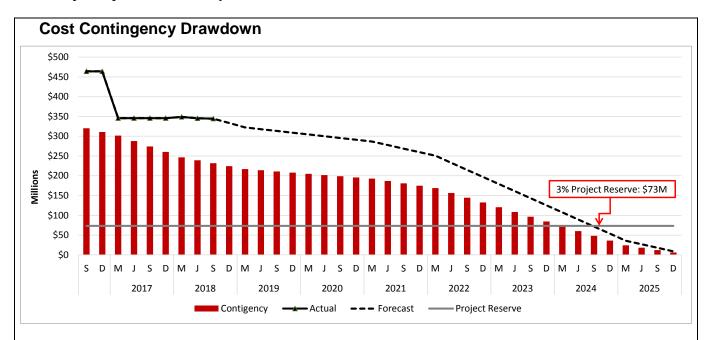
Forecast remain the same this period at \$2.5 billion.

Commitments

The Commitments increased this period by \$14.4 million due to Executed Modifications for the Design/Build Contract C1120, approved Task Order Environmental Services and continuation of Professional Services. The \$1.8 billion in Commitments to date represents 69.2% of the Current Budget.

Expenditures

The Expenditures increased this period by \$22.1 million primarily for costs associated with Design/Build Contract C1120, Metro Project Administration, Real Estate, Engineering Management Services, Construction Management Support Services, and City of Los Angeles. The \$582.6 million in Expenditures to date represents 23.0% of the Current Budget.



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 on 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 [when 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 allocated contingency decreased this period by \$0.9 million due to executed Contract Modifications and a Change Order for the Design/Build Contract C1120.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS								
	Original Contingency (Budget)	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)			
Unallocated Contingency	177,176	(15,540)	1	(15,540)	161,636			
Allocated Contingency	168,534	15,144	(862)	14,281	182,815			
Total Contingency	345,710	(397)	(862)	(1,259)	344,451			

Summary of Contract Modifications

Contract Modifications (MODs) by Cost Level



	C1120: 17 Executed
■ Under \$100K	(22,255,775)
■ \$100K to \$250K	635,488
■ \$250K to \$1M	1,736,288
Over \$1M	4,908,310
Total Contract MODs	(14,975,689)
Contract Award Amount	1,376,500,000
% of Contract MODs	-1.09%

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

Fourteen (17) Contract Modifications (MODS) with a total value of <\$14.98> million have been executed since the award of C1120 Contract – Tunnels, Stations, Trackwork and Systems.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

• DBE Goal - Design

A numerically expressed percentage of funds apportioned to Design Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area.

25.31%

• Current DBE Commitment - Design

Total DBE Committed Dollars divided by Total Contract Value for Design or Construction.

\$14,731,914 (25.31%)

• Current DBE Participation

Total amount paid to date to DBEs divided by the amount paid to date to Prime.

\$10,328,186 *(18.60%)*

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

• DBE Goal – Construction

A numerically expressed percentage of funds apportioned to Construction Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area.

17.00%

Current DBE Commitment – Construction

Actual commitments as Construction work is awarded. (6.22%)

• Current DBE Participation

Total amount paid to date to DBEs divided by the amount paid to date to Prime.

\$3,809,582

\$80,816,122

(1.53%)

Nine (9) Construction DBE subcontractors have been identified to-date.

PROJECT LABOR AGREEMENTS (PLA) STATUS

The Contractor has committed to comply with PLA/CCP requirements for the Project. Project Staff will monitor and report the contractor's progress toward meeting the goals of the PLA/CCP once construction begins.

FINANCIAL/GRANT STATUS

Status of Funds by Source

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMIT	(D/B) MENTS %	(E) EXPEI	(E/B) NDITURES %	(F) BILLED TO SOURO \$	
FEDERAL - SECTION 5309 NEW STARTS	\$1,187.000	\$1,187.000	\$200.000	\$1,045.545	88%	\$200.000	17%	\$185.912	16%
FEDERAL CMAQ	\$169.000	\$169.000	\$43.000	\$43.000	25%	\$43.000	25%	\$43.000	25%
MEASURE R - TIFIA LOAN	\$307.000	\$307.000	\$207.000	\$207.000	67%	\$207.000	67%	\$207.000	67%
MEASURE R 35%	\$811.902	\$811.902	\$206.783	\$401.075	49%	\$77.851	10%	\$31.507	4%
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	\$711.545	\$1,751.382	69.2%	\$582.613	23.0%	\$522.181	20.6%

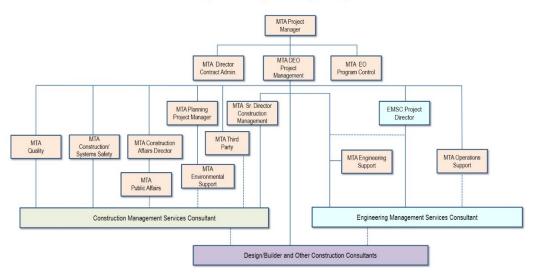
EXPENDITURES ARE CUMULATIVE THROUGH AUGUST 2018

Original Budget based on 2017 Board approved LOP Budget, plus Finance Charges of \$88.7 million.

PROJECT ORGANIZATION AND STAFFING

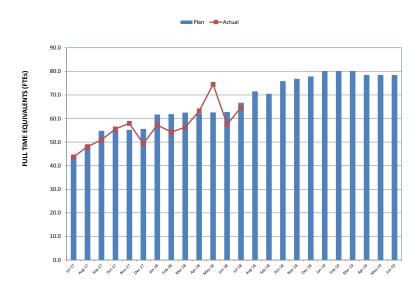
The design-build contract is being managed by a joint team of Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO).

Westside Purple Line Extension Section 2 Responsibility and Reporting Matrix

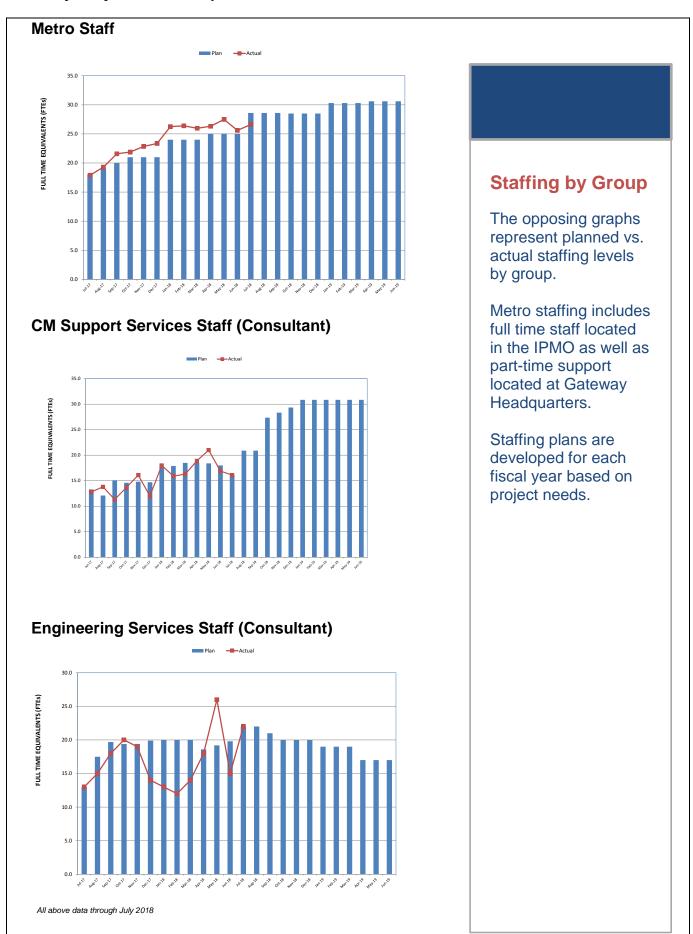


For July 2018, there were a total of 26.6 FTEs for MTA's Project Administration Staff and 38.1 FTEs for Consulting Staff. The total project staffing for July 2018 was 64.7 FTEs.

Total Project Staffing – Metro and Consultants



Data through July 2018



REAL ESTATE STATUS

	Real Estate Status Summary								
Description	Number	umber Certified Appraisals Offers Agreements		Condemnation	Reloc	Parcels			
Description	of Parcels	Gertified	Completed	Made	Signed	Filed	Required	Completed	Available
Full Takes	3	3	3	3	1	2	21	21	3
Part Takes	3	3	1	1	1	0	0	0	1
TCE	3	3	2	2	1	1	1	1	2
SSE	23	23	11	11	5	1	3	3	1
Permanent Easements	1	0	0	0	0	0	0	0	0
Total Parcels	33	32	17	17	8	4	25	25	7

- TPOG has possession of the former ACE Gallery property for abatement, demolition, construction staging and ultimately construction of the Wilshire/Rodeo Station entrance.
- TBM Launch Box site turnover to TPOG was issued on January 11, 2018, and access to the adjacent sidewalk was provided on January 16, 2018.
- AAA property and Gillis Family Partnership property turnover to TPOG was provided on January 26, 2018.
- TPOG gained possession of 2040 Century Park East (JMB parking lot) on February 24, 2018.
- TPOG gained possession of the three parcels (W-3001, W-3001-01 and W-3002) located at the Wilshire/Rodeo Construction Staging Area (North) on July 11, 2018.

QUALITY ASSURANCE STATUS

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

- Worked with TPOG on: 1) Precast manufacturing/repair procedures for tunnel lining; 2)
 ITP for molds to be used for demonstration liners; 3) SOE used material identification
 and inspection; 4) building the project records repository on Egnyte and providing
 access of Metro personnel to this information.
- Reviewed and provided comments on the following with a disposition of Approved as Noted:
 - Special Inspectors Qualifications (Twining)
- Reviewed and provided comments on the following with a disposition of For Record Only:
 - Permanent Sewer PVC Waterstop for Manholes (Valverde)
 - Permanent Sewer Lateral Rubber Couplings at CCS (Valverde)
 - Crushed Aggregate Base Kelterite Plant (Valverde)
 - HDPE Install and Fusion Procedures for Perm Sewer (Valverde)
 - HDPE Electrofusion Saddles
 - Sewer Terminal Closeout Box Frame and Cover at CCS (Valverde)
 - Permanent Sewer Manholes Alternate (Valverde)
 - Dewatering Pump Test at Launch Box (Griffith)
 - o Concrete Mix Design Noise Barrier Pile Backfill
 - CCS Perm Sewer FST Type A Bedding (Lucas Builders)
 - Weld Procedures SOE (TPOG)
 - Concrete Curing Compound Flatwork Product Data (Griffith)
 - Detectable Warning Surface Armor Tile Product Data (Griffith)
- Reviewed the following with a disposition of *Approved:*
 - o Construction Work Plan Backfill Basement at 1940 CPE (TPOG)
- Reviewed the following with a disposition of *Rejected:*
 - Sewer Asphalt Membrane Waterproofing for Manholes (Valverde)
 - CCS CSA Site Plan and Site Facilities (Frontier-Kemper)
 - o Concrete Design Mix Design Temporary Electrical Substation (TPOG)
 - o Construction Work Plan SOE Soldier Piles at Launch Box (Lucas Builders)

ENVIRONMENTAL STATUS

- Participated in various advanced utility relocation and TPOG coordination meetings and evaluated progress and schedules for environmental compliance and sustainability efforts.
- Provided environmental awareness training as needed for Metro, advanced utility relocations and TPOG construction staff.
- Conducted field environmental monitoring and spot check inspections for construction noise, stormwater and dust BMPs, cultural resources and Metro's Green Construction Policy.
- Reviewed and provided responses to various contractor submittals and requests for information related to environmental matters.

CONSTRUCTION AND COMMUNITY RELATIONS STATUS

- Attended the following meetings: Construction Management, Advanced Utility Relocations, Construction Relations, Third Party Coordination, LADOT, Beverly Hills Memorandum of Agreement, Beverly Hills and Century City Chamber meetings, Beverly Hills SW-HOA, Building and Property Manager meetings in Century City.
- Conducted project presentations at the Beverly Hills Monthly Community Meeting, Section 2 Century City Community Meeting, and to other Beverly Hills businesses oneon-one. Conducted follow up meetings with Century City stakeholders regarding street closure.
- Produced and distributed 12 pre-construction work notices for advanced utility relocation, demolition, temporary sidewalk closures for Century City and Beverly Hills.
- Extensive outreach at community meetings and events including distribution of notices door to door, postcard mailings, digital and direct emails and paid advertising.
- Continued efforts for Eat Shop Play and Business Interruption Fund in Century City and Beverly Hills.

CREATIVE SERVICES STATUS

- Conducted community outreach and coordinated cultural partnerships.
- Reviewed art, design and signage submittals for the Wilshire/Rodeo Station 85% submittal.

SAFETY & SECURITY STATUS

- Third Party advanced utility relocation (AUR) work continues. No injuries were reported this period.
- Conducted project safety orientation for new Metro/Consultants and IPMO project staff.
- Conducted right-of-way (ROW) and safety/security walks, safety/security reviews and coordination with TOPG safety staff for oversight and support on all project field work activities.
- Attended advanced utility relocation (AUR) and design build (D/B) progress, readiness review, schedule, safety/security, partnering, and over-the-shoulder review meetings.
- TPOG Design (18,101 hours) and Construction (16,011 hours) completed 34,112 work-hours for the month of August 2018 with zero recordable incidents. Total Project to Date work-hours are 347,031 with zero recordable incidents.

APPENDIX 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
May 2018	Bureau of Engineering approved a nine-month street closure of Constellation Blvd. between Century Park East and Avenue of the Stars