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TO:

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FROM:

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SUBJECT:

WESTSIDE PURPLE LINE EXTENSION SECTION 2 PROJECT

AUGUST 2020 MONTHLY PROJECT STATUS REPORT

Enclosed herewith is the Monthly Project Status Report for the Westside Purple Line Extension Section 2 Project. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Westside Purple Line Extension Section 2 Project status for the period ending August 28, 2020.

If you have any questions regarding this report or its supporting information, please contact Rick Wilson, Executive Officer, Program Control at (424) 551-4470.

MM: PB Enclosure

# Westside Purple Line Extension Section 2 Project



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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).

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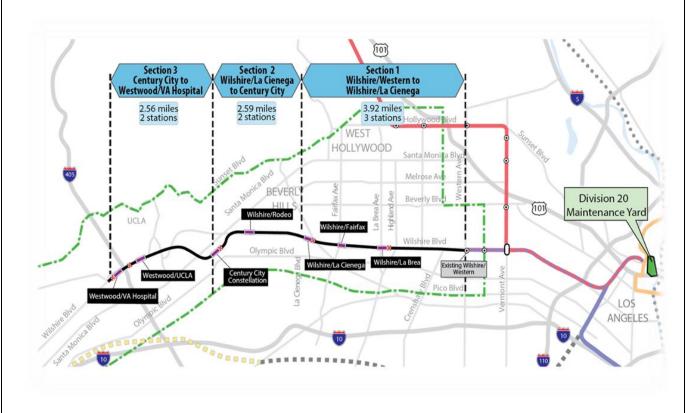
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#### **PROJECT OVERVIEW**

#### **Project Background**

The Westside Purple Line Extension Section 2 Project (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 of 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 two new 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 Global (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.

Project Schedule and Budget: The Revenue Service Date (RSD) is planned for 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 Project 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 alignment.

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 Relations section of this report.

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.

#### **EXECUTIVE SUMMARY**

In August 2020, the Project reached 36% completion based on earned value measurements for design and construction. The focus of the Project continues to be completing final design, and construction activities in Century City and Beverly Hills. The C1120 Design Build Contract is on schedule to substantially complete by May 2025 and demobilize by October 2025. The forecast Revenue Service Date (RSD) for the Project remains planned for 2025. The following is an overview of current design and construction activities.

#### **Design Status**

The Engineering Management Services team (WSP) continues to provide engineering services during construction 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 design work has originally been identified into three distinct design unit packages. They are the following:

- 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

The design packages noted above have been broken out into discrete advanced design units/packages in order to facilitate and prioritize design deliverables.

Metro, Tutor Perini/O&G (TPOG), a Joint Venture 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). Critical design units have been 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: 100% - Radio Design Drawings; 100% - APDU 3.3 WRS Air Shaft #12 & Emergency Exit Stair #5 SOE Design; 100% - APDU 3.3 WRS Emergency Exit Stair #3 SOE Design; 100% - APDU 3.3 WRS Emergency Exit Stair #3 SOE Design; 100% - APDU 3.3 WRS Emergency Exit Stair #4 SOE Design; 100% - CCS Package 3 Volume 2C Calculations DU 2.2; 100% - CCS Package 3 Volume 2F Street Restoration, Final Utility, and Traffic Control Design 100% Design DU 2.3; 85% - CCS Storm Drain and Sanitary Relocation CN 55.1 APDU 2.5.4; 85% - DU 1.1.1 Santa Monica Bus Layover

Restoration Design; AFC, Rev. 1 - Package 3 Volume 1E Tunnels and Cross Passages (CN 66 Revised Special Lining Limits) DU 4.2.

#### **Construction Status**

All advanced utility relocations for LADWP Power and AT&T are complete.

Metro obtained a permit to continue utility work at Century City Constellation Station.

 Nighttime noise variance for work between Century Park East and Century Park West including Avenue of the Stars was issued by the Los Angeles Police Commission for May 28, 2020 through December 31, 2020.

Metro has obtained an additional permit to continue oil well removal work associated with the Century City Constellation Station.

 Nighttime noise variance for work at 1940 Century Park East was issued by the Los Angeles Police Commission for July 6, 2020 through October 6, 2020.

TPOG has obtained the necessary permits for the relocation of the 12-inch water line west of the TBM launch box at the Century City Constellation Station. Nighttime work to relocate the water line began on April 7, 2020. On April 21, 2020, the Board of Public Works approved a 5-week expansion of the existing street closure of Constellation Boulevard to Avenue of the Stars to accommodate the relocation work during the Safer at Home Order.

TPOG completed the work to relocate the water line within the expanded street closure in mid-May 2020. TPOG's water line relocation work on Constellation Boulevard between Avenue of the Stars and Solar way is in progress. Additional utility work for the Project includes TPOG working with City of Los Angeles to obtain permits to relocate a sanitary sewer and storm drain in the Project area.

TPOG continues to work with the City of Los Angeles, DOT and BOE, to obtain permits for a full street closure along Constellation Boulevard, west of Avenue of the Stars. The requested closure is planned for September to November 2020.

Metro executed a legal agreement with Enwave Corporation for the relocation of Enwave utilities at the Century City Constellation Station on June 16, 2020.

Excavation of the Tunnel Boring Machine (TBM) launch box, along with the construction of the tunnel muck bin started in March 2019. The excavation of the TBM launch box was completed on November 1, 2019. Station piling west of the TBM launch box begin on May 12, 2020 and is currently at 42% complete. On July 31, 2020 TPOG obtained a permit from the City of Los Angeles to maintain full closure of Constellation Boulevard, until February 23, 2021.

Tunneling operations began on April 30, 2020 with the launch of the BL TBM, "Ruth". "Ruth" has excavated 285 feet and erected 52 tunnel rings to date. Launch of the BR TBM "Harriet" began on July 20, 2020. "Harriet" has excavated 326 feet and erected 61 tunnel rings to date. Excavation of the tunnel access shaft was completed this period. Tunneling operations will be transitioned to the access shaft after each TBM passes through the shaft. The re-launch of the BL TBM from the tunnel access shaft is anticipated in September

2020. The re-launch of the BR TBM will occur after completion of the oil well abandonment work.

A right of entry agreement to access Beverly Hills Unified School District's (BHUSD) was executed on March 16, 2020. TPOG assisted with the removal of three portable classroom buildings from the school campus on March 20, 2020 to provide surface access at Anomalies A and C. Digging to locate anomalies A and C began on March 30, 2020. Explorations at all three locations were completed in May 2020. Coordination is ongoing with CalGEM and BHUSD for the abandonment of two legacy oil wells found in the path of the BR TBM, "Harriet", under the Beverly Hills High School campus. No delays to tunneling operations have been identified to date.

Production continues and there are 4,055 of 4,187 precast tunnel rings, and 79 of 436 special seismic rings that have been produced as of this reporting period.

On March 31, 2020, Beverly Hills City Council approved a full street closure of Wilshire Boulevard (between Beverly Drive and Crescent Drive) for the duration of the "Safer at Home" orders due to the COVID-19 Pandemic. Implementation of the closure occurred on April 2, 2020. The full street closure of Wilshire Boulevard ended on June 15, 2020.

Wilshire/Rodeo Station piling operations for the south side of the station box, end walls, and station entrance started on April 12, 2020. Piling for the station box was completed on May 9, 2020. Piling for the station entrance at Reeves Drive was completed on May 13, 2020. Excavation of the station box and entrance is 47% complete and is ongoing. Installation of the temporary street decking over the future station box excavation began on May 5, 2020 and was completed on June 6, 2020. Prior to the COVID-19 pandemic, this work was anticipated to be performed during weekend closures from August 2020 through January 2021 (excluding weekends during City holidays).

Negotiations with the COBH for a settlement agreement to end the city's lawsuit against FTA and Metro are ongoing.

#### **Cost and Schedule Summary**

For the C1120 Design/Build contract, Metro has received the Contractor's August 2020 schedule update, which reports the substantial completion date finishing 39 calendar days ahead of the May 23, 2025 contractual date. Future revisions to the contractor's means and methods and revised schedule logic, will have an impact on future updates. It is anticipated that the contractual completion date will be achieved.

The Critical Path (CP) of the Project remains the same running through the Contractor's required utility relocations at Century City Constellation Station, 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 15.

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

There currently remains four (4) open claims that are being evaluated.

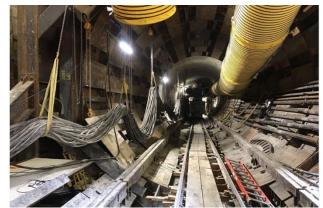
- WRS 21-inch Sanitary Sewer Relocation Design Only (Claim 7)
- Construction Vibration Control (Claim 10)
- AT&T Wilshire/Rodeo Appendage (Claim 12)
- Impact of Utility Relocation work at City of Beverly Hills due to MOA and other COBH Restrictions (Claim 13)

Detailed cost and budget information is provided on Page 17.

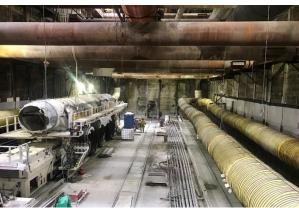
#### **Key Management Concerns**

No concerns to report at this time.

## **Project Construction Photos**



BL Tunnel in Century City



Launch Box in Century City



Tunnel Access Shaft in Century City



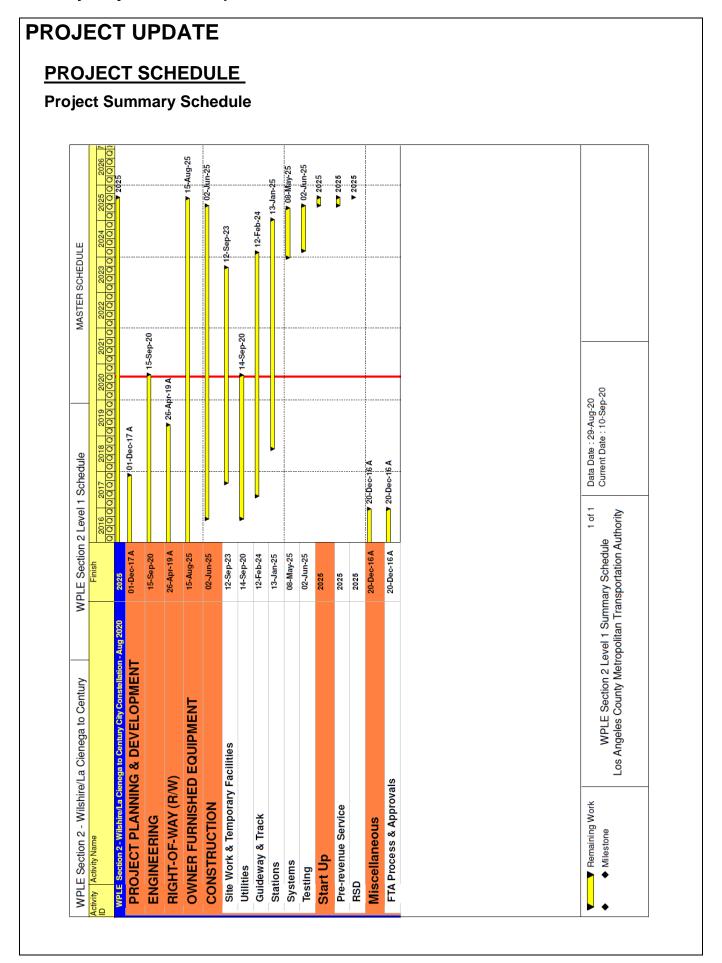


Pile Installation in Century City





Wilshire/Rodeo Station Excavation Activities

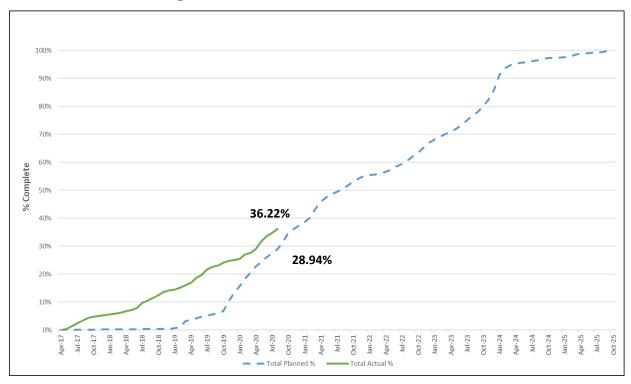


#### **Progress Summary**

	Status	Change from Last Period	Comment
Forecast Revenue Service Date	2025		
TIFIA Revenue Service Date	12/31/2026	None	
FFGA Revenue Service Date	12/31/2026	None	
Final Design Progress:			
Contract C1120	99.3%	0.3%	Final Design is currently planned to complete in 2020. No impact to Project schedule.
<b>Construction Contracts Progress:</b>			
Contract C1120	36.2%	1.5%	

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

#### **Planned vs. Actual Progress**



The actual overall construction progress is 36.22% versus a planned of 28.94% through August\_2020. 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.

mpleted Excavation and Concrete Pour of Invert slab at nnel Access Shaft		Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-20
	8/20/2020 A	$\bigcirc$					
mplete Utility Relocations at Century City Constellation ation	09/14/20		$\bigcirc$				
mplete Design Package 3 - Stations (Vol 2), Track & stems (Vol 3)	09/15/20		$\bigcirc$				
eak-Out of BL TBM "Ruth" at Tunnel Shaft in Century City	09/24/20		$\bigcirc$				
mplete Pile Installation in Constellation Blvd west of the unch Box and East of Avenue if the Stars	10/02/20			$\bigcirc$			
art Installation of BL TBM Support Equipment at Tunnel aft	11/04/20				$\bigcirc$		
eak-Out of BR TBM "Harriet" at Tunnel Shaft in Century	11/10/20				$\bigcirc$		
mplete Decking Operations w est of the launch box at ntury City Constellation Station	11/28/20				$\bigcirc$		
art Mass Excavation at Century City Constellation Station	11/30/20				$\bigcirc$		
art Installation of BL Special Rings	12/22/20					$\bigcirc$	
art Installation of BR TBM Support Equipment at Tunnel aft	01/14/20						$\bigcirc$
MTA Staff MTA Board Action	FTA (Fede Transit Administra		Utilit	y Compan	у		
Other Agencies Contractors	O Design Consultant		C112	20 D/B Co	ntractor		
follow ing date is actual and completed	* New						

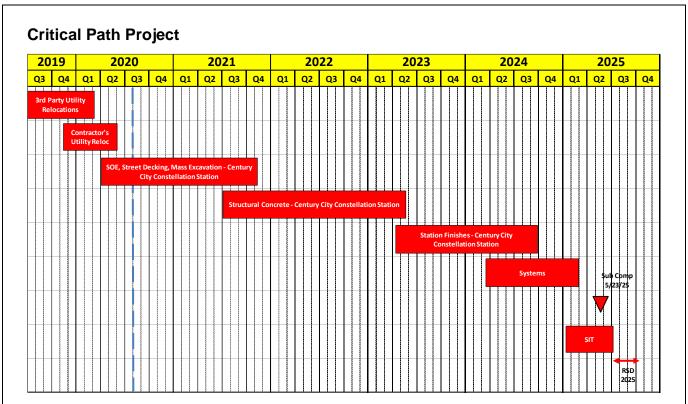
## **Major Equipment Delivery**

	Submittal	Procurement	Delivery	Installation
C1120 DESIGN/BUILD*				
Tunnel Boring Machines	7/27/17(A)	8/14/17(A)	9/13/18(A)	12/26/19(A)
Emergency Ventilation Fans	Nov-20-20	Nov-23-20	May-13-21	Mar-08-22
Station Elevators/Escalators	Jan-29-21	Jan-29-21	Jan-19-23	Jul-05-23
Track - Running Rail	Jan-07-21	Jan-07-21	Apr-05-21	Jul-05-23
Traction Power Equipment	Jan-27-21	Jan-28-21	Oct-04-21	Oct-13-23
Automatic Train Control	Sep-04-20	Sep-04-20	Apr-09-21	Dec-01-23
Radio System	Sep-04-20	Sep-04-20	Apr-09-21	Dec-22-22
SCADA RTU System	Sep-04-20	Sep-04-20	Apr-09-21	Dec-22-22
Heavy Rail Vehicles***	E	xercise Option #3	March 1, 202	1
Universal Fare System***	TBD	TBD	TBD	June 2023**

<sup>\*</sup> Dates derived from TPOG's August 2020 Schedule.

<sup>\*\*</sup> Forecast release date by TPOG to UFS contractor access at stations.

<sup>\*\*\*</sup> Metro supplied equipment.



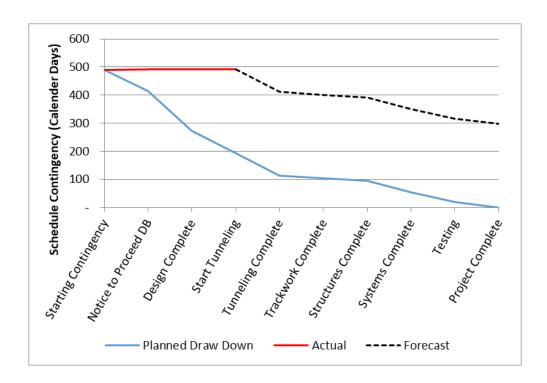
The Critical Path in August -2020 remained the same as portrayed last month.

#### **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 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 (16) months has been maintained.



#### PROJECT COST

#### Project Cost Analysis – 865522

SCC CODE	DESCRIPTION		CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST BUDGET
CODE		BUDGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	346,440	-	321,703	-	311,273	3,973	99,838	-	321,703	
20	STATIONS, STOPS, TERMINALS, INTERMODAL	434,990	-	455,245	36	415,499	8,714	96,721	-	455,245	
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	-	-	-	-	-	-	-	-	-	-
40	SITEWORK & SPECIAL CONDITIONS	553,282	-	583,924	1,156	564,543	2,632	379,125	-	583,924	
50	SYSTEMS	81,457	-	80,525	-	69,958	-	8,267	-	80,525	
	CONSTRUCTION SUBTOTAL (10-50)	1,416,169	-	1,441,396	1,193	1,361,272	15,319	583,952	-	1,441,396	
60	ROW, LAND, EXISTING IMPROVEMENTS	426,396	-	430,075	-	318,091	730	242,046	-	430,075	
70	VEHICLES	42,000	-	42,000	-		-		-	42,000	
80	PROFESSIONAL SERVICES	374,878	-	403,558	5,172	286,377	3,267	234,639	-	403,558	
	SUBTOTAL (10-80)	2,259,444	-	2,317,029	6,364	1,965,740	19,317	1,060,637	•	2,317,029	
90	UNALLOCATED CONTINGENCY	177,176	-	119,591	-		-	-		119,591	
100	FINANCE CHARGES	88,695	-	88,695	-		-	-		88,695	
тота	L PROJECT 865522 (FFGA & NON-FFGA CONCURRENT ACTIVITIES)	2,525,314		2,525,314	6,364	1,965,740	19,317	1,060,637	-	2,525,314	
	ENVIRONMENTAL/PLANNING 465522	4,349	-	4,349	-	3,957	-	3,377	-	4,349	
	TOTAL PROJECT 465522 (ENV / PLAN'G)	4,349		4,349		3,957	-	3,377	-	4,349	
	TOTAL PROJECTS 465522 & 865522	2,529,664		2,529,664	6.364	1,969,698	19.317	1,064,014	_	2,529,664	

#### **Original Budget**

Original 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 Budget and Current Forecast**

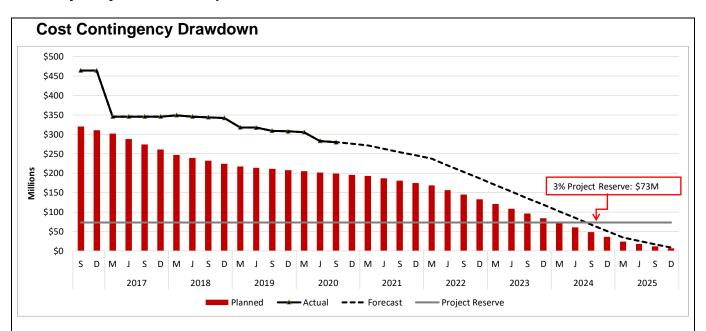
Current Budget and Current Forecast remain the same this period at \$2.5 billion.

#### **Commitments**

The Commitments increased this period by \$6.4 million due to an executed Contract Modification for the Design/Build Contract C1120, Task Orders for Project Management Support Services, Work Orders for Third Party Private Utilities, and FY21 Annual Work Order with the City of Beverly Hills. The \$1.9 billion in Commitments to date represent 77.9% of the Current Budget.

#### **Expenditures**

The Expenditures increased this period by \$19.3 million primarily for costs associated with Design/Build Contract C1120, Third Party Private Utilities, Environmental Services, Real Estate Acquisitions, Metro Project Administration, Engineering Management Support Services, Construction Management Support Services, Quality Management Services, Legal Services, and City of Los Angeles Master Cooperative Agreement. The \$1.1 billion in Expenditures to date represent 42.1% of the Current Budget.



#### **Cost Contingency Drawdown Analysis**

The Original 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 a 2025 Forecast Revenue Service Date (RSD).

The allocated contingency decreased this period by \$36K due to an executed Contract Modification for the Design/Build Contract C1120.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS								
BOLLANO IN THOUSANDO	Original Contingency (LOP Budget)	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)			
Unallocated Contingency	177,176	(57,585)	-	(57,585)	119,591			
Allocated Contingency	168,534	(8,476)	(36)	(8,512)	160,022			
Total Contingency	345,710	(66,061)	(36)	(66,097)	279,613			

## **Risk Management**

#### **Summary of Risks**

During the quarterly risk register meeting that occurred on July 16, 2020 for the previous quarter, one (1) new risk was identified and one (1) risk was closed. There is a total of sixty-seven (67) risks to be managed in the next quarter.

#### New Risk Identified:

Risk ID	Risk Description	scc	Risk Score
PLE2-101	Increase of City Staffing for Reviews due to COVID-19 (More than Required)	80	4.0

#### Closed Risk:

Risk ID	Risk Description	SCC	Risk Score
PLE2-128	Potential for rejected Pilot Car for weight restrictions may impact execution of Option	70	4.0

Of the sixty-seven (67) risks, four (4) are scored as high, twenty-six (26) are scored as medium and thirty-seven (37) as low.

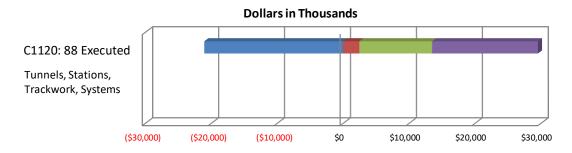
The Project Risk Register will continue to be updated quarterly.

#### **Top Five Risks**

The table below shows the top five (5) Project risks.

Risk ID	Risk Description	Risk Score	Action Items
PLE2-136	COVID-19 Pandemic Impact	20.0	1) Evaluate the guidelines from State and local Government.
			2) Put contingency plans in place.
PLE2-54	Turnover of remaining property to DB	15.0	Metro to complete property acquisition before the need date.
	contractor is delayed beyond the need		2. Building demolition to be part of DB contract. DB Contractor to start work as early as
	dates in the Contractor's current		possible.
	schedule.		3. Task force to be created to look into issue. Look at utilities and identify potential
			opportunities, e.g., area(s) where contractor can work given partial access to site.
PLE2-95	Magnetic anomalies discovered in tunnel	14.0	1. Complete HDD study per approved plan.
	alignment.		2. Additional Investigations are required to determine the exact location and nature of
			the three (3) anomalies.
			3. If the anomalies are proven to be well casings, follow MMRP Con-53.
			4. Metro and BHUSD continue to coordinate with CalGEM with regards to next steps.
			Metro will continue to monitor the progress of the investigations and any subsequent oil
			well abandonment work that may be required if the presence of oil wells is confirmed
			on the alignment of either tunnel.
PLE2-70	Public protest to the Project causes	12.0	Continue working collaboratively with the COLA and COBH communities.
	delays.		
PLE2-34	TBM breaks down in tunnel and has to be	9.0	1. Metro to discuss with Section 1 regarding TBM screw issues and review TBM design
	repaired/retrieved.		and spare parts if necessary.

#### **Summary of Contract Modifications**



	C1120: 88 Executed
■ Under \$100K	(21,078)
■ \$100K to \$250K	2,436
■ \$250K to \$1M	11,033
Over \$1M	16,051
Total Contract MODs	8,442
Contract Award Amount	1,376,500
% of Contract MODs	0.61%

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

Eighty-eight (88) Contract Modifications (MODS) with a total value of \$8.4 million have been executed since the award of C1120 Contract – Tunnels, Stations, Trackwork and Systems.

## **DISADVANTAGED BUSINESS ENTERPRISE (DBE)**

As of July 2020:

DBE Goal – Design The percentage of funds apportioned to Design Contracts	25.31%
Current DBE Commitment Design Total DBE Committed Dollars divided by Total Contract Value for Design	\$16.9M 27.49%
Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$18.4M 32.79%

Twenty (20) Design DBE sub-consultants have been identified to date.

DBE Goal – Construction The percentage of funds apportioned to Construction Contracts	17.00%
Current DBE Commitment Construction Contract commitment divided by current contract value for Construction	\$137.3 10.52%
Current DBE Participation  Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$62.2M 11.97%

Forty (40) Construction DBE sub-contractors have been identified to date.

# PROJECT LABOR AGREEMENTS (PLA)

As of July 2020:

Targeted Worker Goal	40.00%
Construction work to be performed by residents from Economically	
Disadvantaged Area in the United States	
Targeted Worker Current Attainment	42.61%
Apprentice Worker Goal	20.00%
Construction work to be performed by Apprentices	
Apprentice Worker Current Attainment	15.17%
Disadvantaged Worker Goal	10.00%
Construction work to be performed by disadvantaged workers	
Disadvantaged Worker Current Attainment	1.63%

## FINANCIAL/GRANT

#### Status of Funds by Source

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMIT \$	(D/B) MENTS %	(E) EXPEN	(E/B) NDITURES %	(F) BILLED TO SOURC \$	
FEDERAL - SECTION 5309 NEW STARTS	\$1,187.000	\$1,187.000	\$500.000	\$1,055.995	89%	\$427.817	36%	\$427.817	36%
FEDERAL CMAQ	\$169.000	\$169.000	\$169.000	\$160.329	95%	\$134.487	80%	\$134.487	80%
MEASURE R - TIFIA LOAN	\$307.000	\$307.000	\$307.000	\$307.000	100%	\$307.000	100%	\$307.000	100%
MEASURE R 35%	\$811.902	\$811.902	\$206.783	\$391.611	48%	\$139.948	17%	\$137.055	17%
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	\$1,237.545	\$1,969.697	77.9%	\$1,064.014	42.1%	\$1,061.121	41.9%

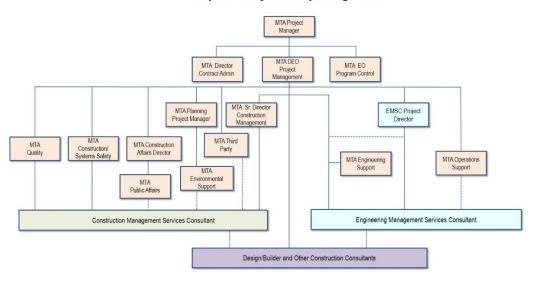
EXPENDITURES ARE CUMULATIVE THROUGH AUGUST 31, 2020

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).

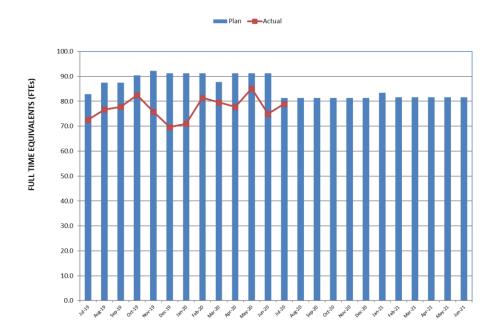
# Westside Purple Line Extension Section 2 Responsibility and Reporting Matrix



The overall FY21 Total Project Staffing Plan averages 82.8 FTEs per month.

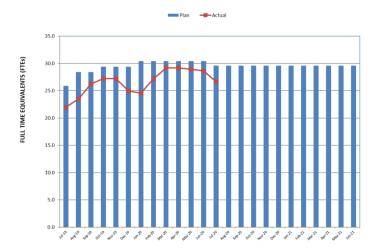
For July 2020, there were a total of 26.7 FTEs for MTA's Project Administration Staff and 52.3\* FTEs for Consulting Staff. The total project staffing for July 2020 was 79.0 FTEs. Review of staffing plans is on-going to ensure staffing needs are appropriately managed.

#### Total Project Staffing - Metro and Consultants

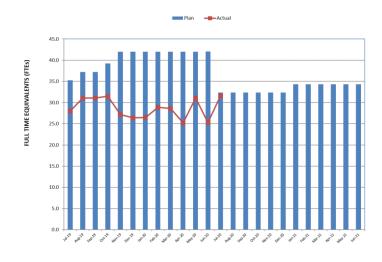


Actuals include 3.7 FTEs related to Project Management Support Services (PMSS)

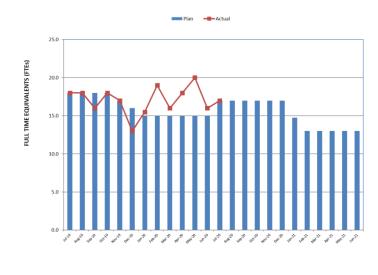




#### **CM Support Services Staff (Consultant)**



#### **Engineering Services Staff (Consultant)**



#### **Staffing by Group**

The opposing graphs represent planned vs. actual staffing levels by group.

Metro staffing includes full time staff located in the IPMO as well as part-time support located at Gateway Headquarters.

Staffing plans are developed for each fiscal year based on project needs.

#### **REAL ESTATE**

Real Estate Status Summary  Description Number Certified Appraisals Offers Agreements Condemnation Relocations Parcels										
							ations	Parcels		
Description	of Parcels	Certified	Completed	Made	Signed	Filed	Required	Completed	Available	
Full Takes	3	3	3	3	1	2	21	21	3	
Part Takes	3	3	3	3	2	0	0	0	2	
TCE	3	3	3	3	2	1	1	1	3	
SSE	23	23	23	23	15	9	3	3	15	
Permanent Easements	1	1	0	0	0	0	0	0	0	
Total Parcels	33	33	32	32	20	12	25	25	23	

- TPOG has possession of the former ACE Gallery property for 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.
- TPOG gained possession of the Wilshire/Rodeo Station footprint after completion of third party utility relocations on October 18, 2018.
- TPOG gained possession of W-3604 and W-3604-1 (AT&T) on March 20, 2019.
- Settlement agreement reached for W-3603 (Gillis) for loss of goodwill.
- TPOG gained site access to Parcel W-3901 located on the Southeast corner of Constellation Boulevard and Century Park West 10250 Constellation Boulevard on September 27, 2019.
- The acquisition for Parcel W-3604 (Pacific Bell) was completed on November 21, 2019.
- Settlement agreement reached for Subsurface Easement Parcel W-3402 (GCIP Holdings II, LLC).
- TPOG gained possession of W-3801 for the Century City Constellation Station entrance on August 21, 2020.
- Parcel W-3903 under platform exhaust will be moved to public sidewalk. Requirement from Westfield will be decertified.

#### **QUALITY ASSURANCE**

- Attended weekly Project construction progress meetings.
- Reviewed construction submittals, Inspection Reports at various job locations, Twining Independent test laboratory Reports (TPOG), Ninyo and Moore test laboratory Reports (Metro) and Invoices for the work performed by Ninyo and Moore and PQM.
- Contributed to the development of Metro Quality Management Oversight Program and managed the implementation of the Project.
- Chaired weekly quality meetings with TPOG Quality Manager for the status, corrective actions, close out documents and verification actions for NCRs issued by Metro; quality control results for the current works; planning activities of Metro Laboratory materials verification testing and special processes construction assessments.
- Reviewed the following with a disposition for record only/ approved/ approved as noted:
  - o Mud Slabs and Protective Slab Mix Design Project Wide
  - In-Situ Soil Gas Monitoring Work Plan Rev 02
  - o Galvanic Cathodic Protection Materials Product Data

#### **ENVIRONMENTAL**

- Confirmed asbestos ductbank in conflict with SOE pile line at Constellation Station.
   Abatement and removal TBD.
- Archeological/Paleontological monitoring at the tunnel access shaft and at Wilshire/Rodeo Station is on-going.
- Participated in various Project coordination meetings and evaluated progress and schedules for environmental compliance and sustainability efforts.
- Provided environmental awareness training as needed.
- Conducted field environmental monitoring and spot check inspections for construction noise and vibration, stormwater and fugitive dust BMPs, 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**

- Produced and distributed five (5) construction work notices including accelerated work updates in Beverly Hills and Century City and monthly look ahead notices for Century City and Beverly Hills.
- Conducted monthly construction update project presentations via webinar for community and business stakeholders in Beverly Hills and Century City. Multiple one on one stakeholder meetings were conducted in Century City regarding full closure plans for piling and decking activities.
- Extensive outreach at community meetings and events including distribution of notices door to door, digital and direct emails and paid advertising. Limited to online outreach efforts only during COVID19 restrictions.
- Participated in the following online meetings: Construction Management Weekly meetings, Construction Relations weekly meetings, Third Party Coordination, LADOT coordination, BOE and BSS coordination, LADWP review meeting, Wilshire/Rodeo Station and Century City Constellation Station Construction Coordination weekly meetings.
- Continued efforts for Eat Shop Play and Business Interruption Fund in Century City and Beverly Hills. Updated Facebook/Twitter and website as needed.

#### **CREATIVE SERVICES**

- Outreach and coordination with area stakeholders.
- Participation in Architecture Task Force Meetings.
- Conducted outreach and coordination with area stakeholders.
- Artist selection research and preparation.

#### **SAFETY & SECURITY**

- Tutor Perini-O&G (TPOG) reported two (2) Recordable Injuries in August 2020.
- Metro Safety staff attended daily tool box meetings, weekly crew all hand safety meeting, progress meetings, readiness reviews, and other project meetings to evaluate Contractor's Safety Program compliance with contract requirements.
- Metro and TPOG Project safety staff conducted schedule, safety/security and overthe-shoulder review meetings.
- Safety staff worked with Program Management and Construction Relations staff to monitor issues related to public concerns regarding noise, traffic and public/construction interfaces as well as public interactions with the construction crews.
- Metro project safety staff conducted project Safety Orientation, SCSR and H2S Safety Training for new Metro/Consultants and IPMO project staff.
- Hosted the Monthly All Hands Safety/Security Meeting Contractors on August 28, 2020.
- Metro project safety staff conducted right-of-way (ROW) and Safety/Security walks, Safety/Security reviews and coordination with TPOG staff for oversight and support of all project field work activities.
- TPOG-JV reported 62,846 actual work hours through August 2020.
- TPOG Project to Date Work Hours are 1,485,146 with fifteen (15) Recordable Injuries and three (3) Day's Away from Work Injuries.
- The Recordable Injury Rate is 2.02 The Bureau of Labor Statistics reports the National Average Recordable Injury Rate is 2.5.

# APPENDIX CHRONOLOGY OF EVENTS

January 2011 FTA approval to enter Preliminary Engineering

August 2012 FTA Record of Decision

December 2014 FTA approval to enter 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 TPOG and approved Life-of-Project Budget

January 2017 Issued C1120 Contract Award to 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

# **Westside Purple Line Extension Section 2 Project Monthly Project Status Report**

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
September 2018	Full street closure of Constellation Blvd. commenced
September 2018	Delivery of tunnel boring machines (TBMs) commenced
October 2018	Piling installation commenced at launch box in Century City
October 2018	Granted Wilshire/Rodeo Station footprint right-of-way (ROW) access to TPOG
December 2018	Completed all civil work for third parties at Century City Constellation Station
December 2018	Demolition of former Ace Gallery completed
January 2019	Completed soldier pile installation for the TBM launch box at the eastern end of the Century City Constellation Station
January 2019	Metro Board Approves City of Beverly Hills MOA for C1120 Contract
February 2019	City of Beverly Hills City Council Approves MOA for C1120 Contract
March 2019	Start of installation of deck beams for the TBM launch box
May 2019	Completed soldier pile installation for Tunnel Access Shaft in Century City
June 2019	TBM Unveiling Event
June 2019	Full Street Closure of Constellation Blvd. Extension Granted
August 2019	Completed Construction of Santa Monica Boulevard Bus Layover in Century City
September 2019	Metro's request to lift the holiday moratorium for construction activities in Beverly Hills was rejected by the City Council
October 2019	Piling installation commenced for the Wilshire/Rodeo Station box.
November 2019	Poured invert slab at TBM launch box in Century City.
1	

# **Westside Purple Line Extension Section 2 Project Monthly Project Status Report**

December 2019	An Additional 7-Month Full Street Closure of Constellation Blvd. was Granted by Los Angeles Board of Public Works.
December 2019	Started TBM Assembly.
December 2019	Motion for prejudgment possession for SSE under Beverly Hill High School was granted.
January 2020	Piling activities resumed at Wilshire/Rodeo Station after the holiday moratorium.
March 2020	LADWP completed 4.8kv system cabling pulling and splicing, along with the remaining cable removals at Century City Constellation Station.
March 2020	Beverly Hills City Council approved a full street closure of Wilshire Boulevard (between Beverly Drive and Crescent Drive) for the duration of the "Safer at Home" orders due to the COVID-19 Pandemic.
April 2020	Began tunneling operations of the BL Tunnel.
April 2020	Completed implementation of the Wilshire Boulevard closure (between Beverly Drive and Crescent Drive) for the duration of the "Safer at Home" orders due to the COVID-19 Pandemic.
May 2020	Completed station box and entrance piling activities at Wilshire/Rodeo Station.
June 2020	Wilshire Boulevard reopened to traffic following completion of decking at Wilshire/Rodeo Station.
July 2020	Began tunneling operations of the BR Tunnel
August 2020	Completed excavation of Tunnel Access Shaft
I	