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FROM:

JAMES COHEN Jim Cohen EXECUTIVE OFFICER, PROJECT MANAGEMENT

WESTSIDE PURPLE LINE EXTENSION SECTION 1 PROJECT **SUBJECT:**

FEBRUARY 2021 MONTHLY PROJECT STATUS REPORT

Enclosed herewith is the Monthly Project Status Report for the Westside Purple Line Extension Section 1 Project. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Westside Purple Line Extension Section 1 Project status for the period ending February 26, 2021.

If you have any questions regarding this report or its supporting information, please contact Salvador Chavez, Deputy Executive Officer, Program Control at (323) 900-2188.

JC: ah Enclosure

Westside Purple Line Extension Section 1 Project



Westside Purple Line Extension Section 1 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).

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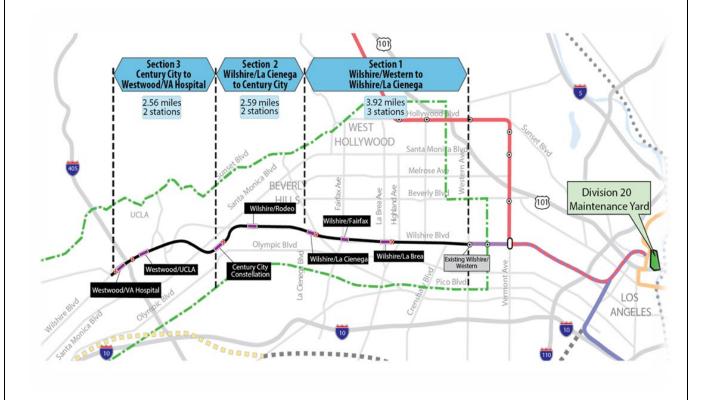
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PROJECT OVERVIEW

Project Background

Section 1 of the Westside Purple Line Extension Project is the first 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 1 will extend the existing Purple Line by 3.92 miles beginning at the Wilshire/Western Station. From this station, the twin tunnel alignment will travel westerly within the existing Wilshire Boulevard right-of-way. Stations will be located at the intersections of Wilshire/La Brea, Wilshire/Fairfax, and Wilshire/La Cienega. All three of the station boxes will be located within the Wilshire Boulevard right-of-way with station portals extending to off-street entrances. Two of the stations, Wilshire/La Brea and Wilshire/Fairfax, are within the jurisdiction of the City of Los Angeles. The Wilshire/La Cienega Station is within the City of Beverly Hills jurisdiction.



The Wilshire/La Brea Station box will be located under the center of Wilshire Boulevard in between Detroit Street and Orange Drive. A double crossover will be located east of the station box. The station entrance will be on the northwest corner of Wilshire Boulevard and La Brea Avenue.

The Wilshire/Fairfax Station box will be located under the center of Wilshire Boulevard west of Fairfax Avenue to west of Ogden Drive. The station entrance will be on the southeast corner of Wilshire Boulevard and Orange Grove Avenue.

The Wilshire/La Cienega Station box will be located under the center of Wilshire Boulevard immediately east of La Cienega Boulevard. A double crossover will be located east of the station box. The station entrance will be on the northeast corner of Wilshire Boulevard and La Cienega Boulevard. Since the station will be the terminus station for Section1, tail tracks will be located west of the station box.

Major Procurements

Contract C1034 - Wilshire/Fairfax Exploratory Shaft

Metro constructed an exploratory shaft to observe ground conditions prior to the award of Contract C1045. The location of the exploratory shaft was adjacent to the future Wilshire/Fairfax Station. The construction of the shaft included furnishing and installing monitoring instruments, ventilation, and record and report instrumentation data during the excavation of the shaft. After construction of the shaft, the shaft was maintained for an observation period. Afterwards, the shaft was dismantled, and the site backfilled in a condition acceptable to the property owner. The contract was substantially completed on October 31, 2014.

Contract C1048 – Wilshire/La Brea Advanced Utility Relocations

The work scope of this contract included the relocation of existing LADWP power, water utilities and a sewer line within the construction limits of the Wilshire/La Brea Station. The contractor was responsible for working in streets, procuring materials, and coordinating with the utility owner. The contractor constructed the new facilities in accordance with the utility plans and specifications, provided traffic control, restored streets, and supported utility crews installing cabling and during cut-over of the existing utilities. The contract was substantially completed on October 27, 2014.

Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations

The work scope of this contract included the relocation of existing LADWP power and water utilities within the construction limits of the Wilshire/Fairfax Station. The contractor was responsible for working in streets, procuring materials, and coordinating with the utility owner. The contractor constructed the new facilities in accordance with utility plans and specifications, provided traffic control, restored streets, and supported utility crews installing cabling and during cut-over of the existing utilities. The contract was substantially completed on October 7, 2015.

<u>Contract C1056 – Wilshire/La Cienega Advanced Utility Relocations</u>

The work scope of this contract included the relocation of existing City of Beverly Hills water, storm drain and sewer utilities within the construction limits of the Wilshire/La

Cienega Station. The contractor was responsible for working in streets, procuring materials, and coordinating with the utility owner. The contractor constructed the new facilities in accordance with utility plans and specifications, provided traffic control, restored streets, and supported utility crews during cut-over of the existing utilities. The contract was substantially completed on August 5, 2016.

Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing The procurement of this contract utilizes 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 3.92-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 finish work. A retrieval shaft will be constructed to the west of the existing Wilshire/Western Station for extraction of the tunnel boring machines. Three underground stations are to be constructed, two with double-crossovers, and the terminus station to include tail tracks. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work includes all architectural finishes, mechanical, electrical, systems and equipment including train control, traction power, communications, trackwork and the system tie-in to the existing Metro Purple Line, testing and commissioning.

<u>Contract C1078 – Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building</u> Location 64

The Design/Build contract provided for the final design and construction of a new Maintenance-Of-Way (MOW) stores and Non-Revenue Vehicle (NRV) building at the south end of the existing Division 20 Yard (Location 64). The displacement of the former MOW stores building and NRV facility are due to the future turn-back facility site in the yard. The contract substantial completion date was extended from May 1, 2019 to August 31, 2019.

Metro Furnished Equipment

Metro has procured a contract to provide 34 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 1 Project is being managed under the direction of an Integrated Project Management Office (IPMO). WSP provides engineering and design support services, while the Westside Extension Support Team (WEST) provides construction management support services. An overview of staffing is provided under the Staffing section of this report. The on-site program management team is also supported by Metro Headquarters resources to include, but not be limited to, engineering, risk management, environmental, quality management, operations and creative services departments.

Project Schedule and Budget: The Revenue Service Date (RSD) is planned for 2023.

The Original Budget of \$3.2 billion reflects the Board approved Life of Project Budget, July 24, 2014, plus Finance Charges of \$0.4 billion. The Current Budget and Current Forecast remain the same this period at \$3.4 billion. A detailed Life of Project Budget forecast is included under the Budget and Cost Forecast Section of this report.

Both the RSD and the Project Budget are currently under review.

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

- Federal Section 5309 New Starts
- Federal Section 5339 Alternative Analysis
- Measure R TIFIA Loan (Transportation Infrastructure Finance & Innovation Act)
- Measure R 35%
- State STIP RIP
- CMAQ (Congestion Mitigation & Air Quality)
- State Capital Project Loans
- City of Los Angeles

<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 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 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 as well as abnormal and emergency scenarios in which random combinations of system interactions are tested; equipment "burned-in"; and training of Metro personnel who will eventually operate and maintain the extension and for emergency services personnel. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

EXECUTIVE SUMMARY

In February 2021, the Project achieved 68.4% completion based on earned value measurements for design and construction. The critical path of the project remains the completion of the TBM tunnel drive, which is currently scheduled to finish in April 2021. The project team continues to review impacts differing site conditions and third-party requirements have had on the project schedule.

The C1045 Design/Build Contract substantial completion date remains June 15, 2023, and the forecast Revenue Service Date (RSD) for the Project remains unchanged and is scheduled for completion in 2023. The forecast RSD is under review.

Design Status

The C1045 Contractor, Skanska, Traylor and Shea (STS), and their final design team, Parsons Transportation Group (PTG), completed final design in June 2017.

The Engineering Management Services (EMS) team continues to provide engineering services during construction to the C1045 design/build contract.

Construction Status

For Reach 3 tunnel mining (Wilshire/Fairfax to Wilshire/La Cienega), an anomaly was discovered and removed in the north tunnel. On February 25, 2021, the Purple TBM (Elsie) successfully reached Wilshire/La Cienega Station without incident. Anomaly intervention for the south tunnel (Red TBM - Soyeon) is scheduled to start in March 2021.

For Reach 1 cross passages, nine (9) out of twelve (12) cross passage structures are complete. Completion of all Reach 1 cross passages is planned for April 2021. Reach 1 tunnel invert concrete placement has commenced.

At Wilshire/La Brea Station, the permanent 24-inch sewer line was installed and placed into service on February 21, 2021. Masonry work was completed on the east side of the station platform level and continues on the concourse level. Work at Appendage #1 (Wilshire/Orange) was completed on February 28, 2021. K-Rails have been moved to Wilshire/Sycamore North for upcoming work on Appendage #4 (Mechanical Room Exhaust). Work on Appendage #2A (Exhaust Shaft) and Appendage #3 (between Orange & Sycamore) continues.

At Wilshire/Fairfax Station, work on Appendages A1C (Fan Room), A2A (Supply Room/Exhaust), A2B (Emergency Exit) and the entrance structure continues. *Another concourse concrete placement (Block 3) was completed on February 22, 2021. The first roof placement in the high bay area (Blocks 8 & 9) is scheduled at the end of March 2021.*

At Wilshire/La Cienega Station, the Purple TBM (Elsie) arrived at the Station on February 25, 2021. Entrance structure invert concrete was placed on February 23 and 25, 2021. The final invert placement is scheduled for March 10, 2021. Daily maintenance of dewatering wells continues, along with maintenance of surface aesthetics per the City of Beverly Hills (COBH) Memorandum of Agreement (MOA).

Substantial completion for the Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building Location 64 Contract (C1078) was extended to August 31, 2019. The final progress payment has been made, and contract close-out efforts are being finalized.

The C1045 design/build contractor has taken possession of the rail site at the Division 20 Rail Yard. The rail welding subcontractor commenced production welding on October 23, 2020. The welding of running rail at the Division 20 Rail Yard was completed on December 9, 2020. Preparation for the movement of running rail into the Reach One (1) tunnel continues. Rail delivery to the Reach One (1) Tunnel is scheduled for April 2021.

Cost and Schedule Summary

For the C1045 Design/Build contract, the re-sequenced schedule, which reflects the current construction approach for the remainder of the project, was incorporated into the schedule update process in July 2020. *Metro has received the February 2021 schedule update, which reports the substantial completion date finishing 274 calendar days after the June 15, 2023 contractual date.*

The project team continues to review the impacts differing site conditions and third-party requirements have had on the project schedule. No changes to the contractual substantial completion date of June 15, 2023, have been made at this time. The forecast completion date is currently under review.

The critical path of the project remains the completion of the TBM tunnel drive, followed by Wilshire/La Cienega Station structural concrete placement and finishes, systems, testing and pre-revenue operations. A summary graphic of the critical path is found on Page 14.

C1045 Design-Build Contract Schedule Metrics

	Original Contract Date/Duration	Time Extension (CD)	Current Contract Schedule	Forecast (Metro PMS)	Variance CD (Trending)
NTP	01/12/2015				
Substantial Completion	06/9/23	6	03/15/24	TBD	-274 days

The project budget and cost forecast has been adjusted to reflect the project's \$200M LOP budget increase approval by Metro's Board in August 2020. The Current Budget and Current Forecast for the Project are both at \$3.4 billion. The project team is reviewing the impacts differing site conditions and third-party requirements have had on the project budget.

There is currently one (1) open claim that is being evaluated.

 Differing Site Conditions (DSCs) experienced during the Reach 2 tunnel drive (Claim 002).

Detailed cost and budget information is provided on Page 17.

Key Management Concerns

Item 1: During Reach 3 (Wilshire/Fairfax to Wilshire/La Cienega) Horizontal Directional Drilling (HDD), which is done prior to the arrival of the TBMs, 'unknown potential anomalies' were discovered within the tunnel envelope near the Wilshire/San Vicente intersection. This discovery is impacting tunnel mining activities, the project schedule critical path and the substantial completion date.

<u>Status/Action</u>: Remedial efforts, which include the installation of a chemical grout block at the Wilshire/San Vicente intersection, continue to mitigate impacts associated with the San Vicente anomaly intervention. A re-sequencing of follow-on construction activities has also been implemented to address the impacts associated with the San Vicente anomaly intervention. As of this reporting period, an anomaly was discovered and removed in the north tunnel. On February 25, 2021, the Purple TBM (Elsie) successfully reached Wilshire/La Cienega Station without incident. Anomaly intervention for the south tunnel (Red TBM - Soyeon) is scheduled to start in March 2021.

Project Construction Photos



Wilshire/Western Interface Chamber



Masonry Work at Wilshire/La Brea Station



Roof Falsework Installation at Wilshire/Fairfax Station



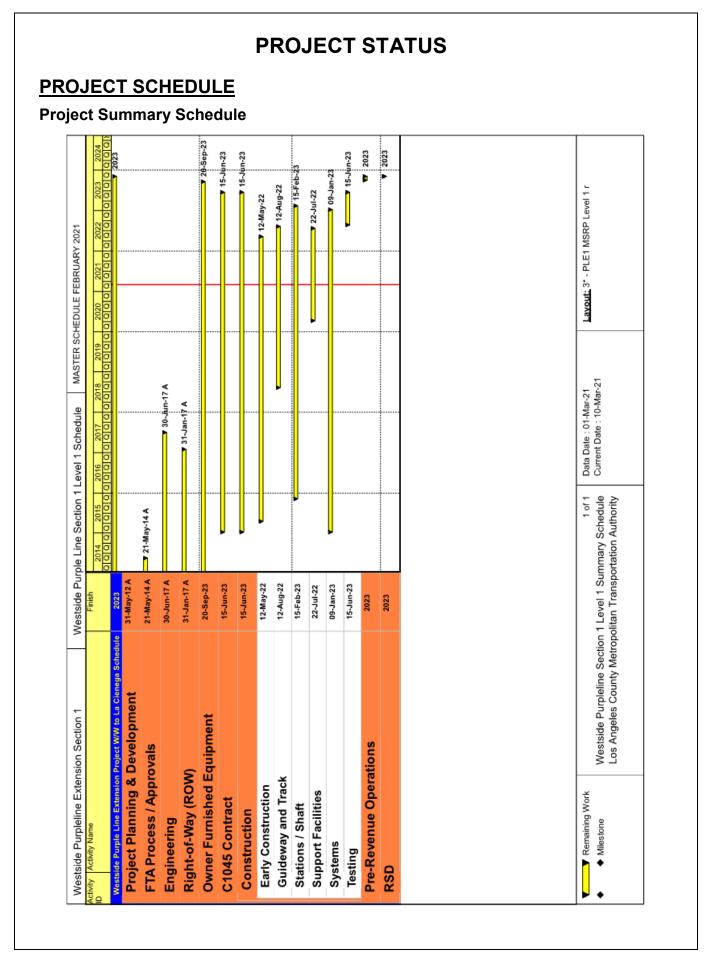
Wilshire/La Cienega Roof Concrete Placement



Purple TBM Arrival at Wilshire/La Cienega Station



I Beam (Anomaly) Discovered in North Tunnel

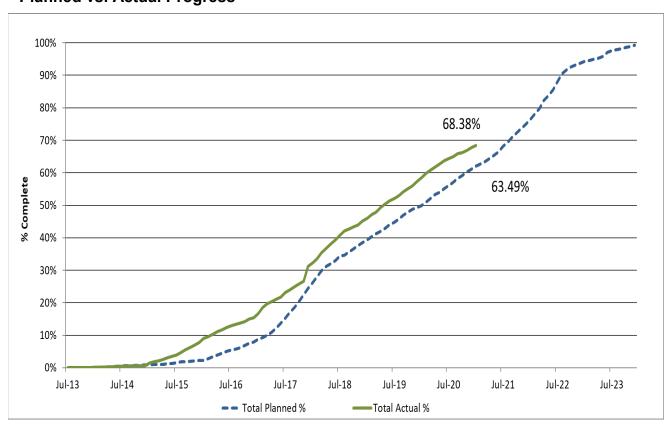


Progress Summary

	Status	Change from Last Period	Comment
Forecast Revenue Service	TBD		Reach 3 Tunnel issues have impacted the project schedule.
TIFIA Revenue Service	10/31/2024	None	
FFGA Revenue Service	10/31/2024	None	
Final Design Progress:			
Contract C1045	100.0%	0.0%	
Contract C1078	100.0%	0.0%	
Construction Contracts Progress:			
Contract C1048	100.0%	0.0%	Completed on Schedule
Contract C1045	66.1%	0.7%	
Contract C1055	100.0%	0.0%	Completed on Schedule
Contract C1056	100.0%	0.0%	Completed on Schedule
Contract C1078	100.0%	0.0%	Completed

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

Planned vs. Actual Progress



	Milestone Date	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
Wilshire/La Cienega: Roof Concrete Placement (Block 14)	02/09/21 A						
Wilshire/Fairfax: Concourse Level Slab Placement (Block 3)	02/22/21 A						
Purple TBM (Elsie) Arrived at Wilshire/La Cienega Station	02/25/21 A						
Red TBM (Soyeon) Restarts the Reach 3 Tunnel Drive	03/08/21						
Reach 1 Tunnel Invert Concrete Placement Commences	03/10/21						
Rail Deliveries to the Reach 1 Tunnel Commence	04/15/21						
Reach 1 Cross Passage Concrete Activities Complete	04/20/21						
Red TBM (Soyeon) Arrives at Wilshire/La Cienega Station	04/21/21						
Commence Wilshire/Fairfax Station Platform Concrete Activities	05/13/21						
Commence Installation of LADWP Ductbank at Wilshire/La Brea Station	05/15/21						
Commence Wilshire/La Brea Entrance Structure Activities	06/02/21						
Complete WPLE Section 1 Mining Activities	07/01/21						
Other Agencies Contractors A" follow ing date is actual and completed	* New	n Consulta			D/B Contr		

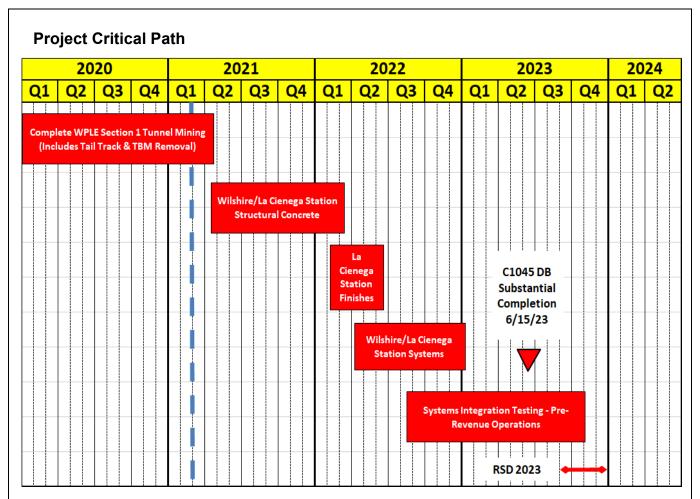
Major Equipment Delivery

	Submittal	Procurement	Delivery	Installation
C1045 DESIGN/BUILD*				
Tunnel Boring Machine	1/29/16A	8/14/2017A	12/15/17A	7/13/18A
Emergency Ventilation Fans	11/30/18A	4/1/19A	9/15/21	9/16/21
Station Elevators	4/27/18A	4/27/18A	1/28/22	1/25/23
Station Escalators	4/27/18A	4/27/18A	9/27/21	7/25/22
Track - Running Rail	7/09/19A	8/09/19A	4/9/20A	4/15/21
Traction Power Equipment	3/8/21	8/27/21	3/4/22	3/11/22
Automatic Train Control	4/1/16A	7/1/16A	12/20/16A	5/31/22
SCADA RTU System	2/2/17A	1/16/18A	5/18/18A	8/2/21
Radio System	2/2/17A	2/03/20A	5/24/21	10/26/21
Heavy Rail Vehicles***	7/16/15A	5/1/19A	3/31/23	4/15/23
Universal Fare System**	02/15/21 A	11/17/21	9/14/22	1/12/23

^{*} Dates derived from STS's February 2021 Schedule.

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

^{***} Metro supplied equipment



The re-sequenced schedule, which reflects the current construction approach for the remainder of the project, was incorporated into the schedule update process in July 2020.

For the month of February 2021, the critical path of the project remains the completion of the TBM tunnel drive, which is currently scheduled to finish in April 2021.

During Reach 3 (Wilshire/Fairfax to Wilshire/La Cienega) Horizontal Directional Drilling (HDD), which is done prior to the arrival of the TBMs, 'unknown potential anomalies' were discovered within the tunnel envelope near the Wilshire/San Vicente intersection. This discovery is impacting critical path tunnel mining activities.

Remedial efforts, which include the installation of a chemical grout block at the Wilshire/San Vicente intersection, continue to mitigate impacts associated with the San Vicente anomaly intervention.

As of this reporting period, an anomaly was discovered and removed in the north tunnel. On February 25, 2021, the Purple TBM (Elsie) successfully reached Wilshire/La Cienega Station without incident. Anomaly intervention for the south tunnel (Red TBM – Soyeon) is scheduled to start in March 2021.

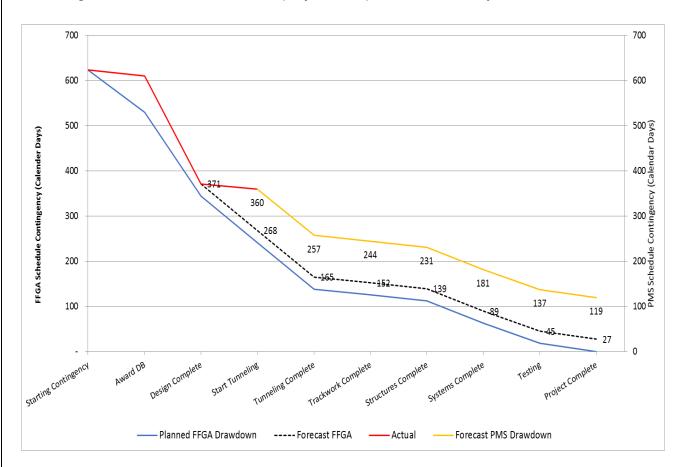
The Revenue Service Date remains targeted for 2023. This forecast completion date is under review.

Project Schedule Contingency Drawdown Analysis

The project schedule contingency drawdown model provides a dual-axis perspective based upon the FFGA RSD of October 2024 and Metro's Project Master Schedule (PMS) forecast of fall 2023.

The introduction of the PMS model axis reflects a proportional distribution of available float relative to the FFGA model. Based on an October 15, 2018 actual start of TBM mining, schedule contingency appears to maintain a noticeable buffer from the FFGA model. This model will be updated when TBM mining is complete. The TBM mining completion date is currently being impacted by the Reach 3 anomaly intervention effort at the Wilshire/San Vicente intersection.

With regards to the FFGA RSD, the project completion is currently under review.



Risk Management Narrative

Summary of Risks

During the quarterly risk register meeting, no new risks were identified and one (1) risk was closed. A total of thirty-four (34) risks remain to be managed in the next quarter.

Of the thirty-four (34) risks, three (3) are scored as high, ten (10) as medium and twenty-one (21) as low.

The next WPLE Section 1 Project Risk Register quarterly update is scheduled for April 2021.

Top Five (5) Risks

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

Top Risks

Risk ID	Risk Description	Risk Score	Action Items
625.1	Encountering unknown anomalies during tunneling (e.g. tie-backs, steel beam, oil wells).	16	1. Continued investigation of anomaly under investigation at western array of Reach 3. 2. Work activities for surface chemical grouting from inside the box culvert and from the surface is underway. 3. The grout block for the north and south tunnels have been completed. An anomaly was discovered and removed in the north tunnel. The Purple TBM (Elsie) successfully reached the Wilshire/La Cienega Station without incident on February 25, 2021. Anomaly intervention for the south tunnel is scheduled to start in March 2021. Project impacts are currently being assessed.
678.0	COVID-19 Pandemic Impact	15	Evaluate state and local government guidelines Put contingency plans in place.
676.0	Subcontractor ability to get the required resources to perform work. Resource (Labor) shortage (Direct and Indirect).	10	Actively manage schedule and resource needs.
203.1	Dewatering cost increase (main issues are for cross passages).	8	Performing jet grouting. All Reach 1 Cross Passages have been excavated except for Cross Passage #7.
628.0	Systems integration with existing Purple Line at Wilshire/Western Station.	6	Contractor complying with Systems Integration Plan [In Progress].

PROJECT COST

Project Cost Analysis – 865518

DOLLARS IN THOUSANDS

SCC	DESCRIPTION	ORIGINAL BUDGET	CURREN	T BUDGET	СОММІ	TMENTS	EXPENI	DITURES	CURRENT	FORECAST	CURRENT BUDGET / FORECAST
CODE		BODGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	388,294	-	452,400	4,200	424,088	6,323	291,009	-	452,400	-
20	STATIONS, STOPS, TERMINALS, INTERMODAL	440,621	-	572,197	-	535,329	4,581	357,743	-	572,197	-
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	43,323	-	46,012	-	45,712	-	45,702	-	45,723	(288)
40	SITEWORK & SPECIAL CONDITIONS	751,566	1	825,008	-	805,251	3,185	656,398	1	824,103	(905)
50	SYSTEMS	113,574		118,995	1	102,477	672	35,541		118,995	-
	CONSTRUCTION SUBTOTAL (10-50)	1,737,378		2,014,612	4,200	1,912,857	14,761	1,386,392		2,013,419	(1,193)
60	ROW, LAND, EXISTING IMPROVEMENTS	175,634		202,980	-	202,980	0	185,192		202,980	-
70	VEHICLES	160,196	1	108,302	-	98,248	-	24,549	1	108,302	-
80	PROFESSIONAL SERVICES	412,710	1	575,463	400	457,956	3,160	415,121	1	575,450	(13)
	SUBTOTAL (10-80)	2,485,918		2,901,357	4,600	2,672,040	17,922	2,011,254		2,900,151	(1,206)
90	UNALLOCATED CONTINGENCY	248,592	i	38,153	-	1	-	-	i	39,359	1,206
100	FINANCE CHARGES	375,470	ı	375,470	-	1	-	i	ı	375,470	-
	TOTAL PROJECTS 465518 & 865518 (10-100)	3,109,980	٠	3,314,980	4,600	2,672,040	17,922	2,011,254	٠	3,314,980	-
	ENVIRONMENTAL/PLANNING - 405518	8,505		8,505	-	8,505	-	8,505		8,505	-
	ENVIRONMENTAL/PLANNING - 465518	30,865	-	30,865	-	30,865	-	30,852		30,865	-
	TOTAL PROJECTS 405518 & 465518 (ENV / PLAN'G)	39,370		39,370	-	39,370		39,357	-	39,370	-
	TOTAL PROJECTS 405518, 465518 & 865518	3,149,350	•	3,354,350	4,600	2,711,410	17,922	2,050,611	•	3,354,350	-

Original Budget

The Original Budget of \$3.1 billion reflects the Board approved Life of Project Budget, July 24, 2014, plus Finance Charges of \$0.4 billion.

Current Budget and Current Forecast

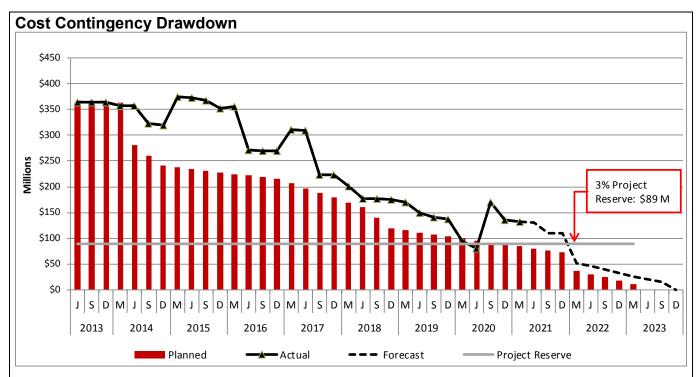
The Current Budget and Current Forecast remain the same this period at \$3.4 billion.

Commitments

The Commitments increased by \$4.6 million primarily due to an executed Contract Modification and Change Order for the Design/Build Contract C1045. The \$2.7 billion in Commitments to date represent 80.8% of the Current Budget.

Expenditures

The Expenditures increased by \$17.9 million for costs associated with the Design/Build Contract C1045, Engineering Management Support Services, Construction Management Support Services, and Metro Project Administration. The \$2.1 billion in Expenditures to date represent 61.1% of the Current Budget.



Cost Contingency Drawdown Analysis

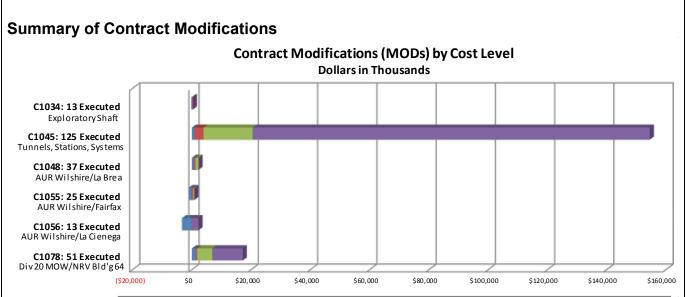
The Project's Original Budget of \$3.2 billion (plus Finance Charges of \$0.4 billion) included a project cost contingency of \$320.6 million or 10.2% of the total project budget. In June 2020, the remaining contingency balance was below the 3% project reserve threshold of \$83.4 million. To date, the Project has experienced higher than expected differing site conditions, an increase in third party and safety requirements, and changes in scope.

In August 2020, the Board approved to amend the life-of-project (LOP) budget to address the cost contingency drawdowns, fund ongoing construction, third party and professional services expenses. The LOP budget was increased by \$200.0 million and the 3% project reserve is now \$89.4 million.

The project cost contingency drawdown curve is based on a 2023 Revenue Service date. *This date is currently under review.*

The allocated contingency decreased this period by \$4.5 million due to an executed Contract Modification and Change Order for the Design/Build Contract C1045.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS								
Original Contingency (Budget) Previous Period Current Period To-Date Remaining Contingent (Forecas)								
Unallocated Contingency	248,592	(209,233)	-	(209,233)	39,359			
Allocated Contingency	71,963	24,719	(4,490)	20,228	92,192			
Total Contingency 320,555 (184,514) (4,490) (189,004) 131,55								



	C1034	C1045	C1048	C1055	C1056	C1078	Total
	13 Executed	125 Executed	37 Executed	25 Executed	13 Executed	51 Executed	Total
■ Under \$100K	(164)	745	574	(1,179)	(3,325)	1,217	(2,132)
■ \$100K to \$250K	321	3,177	617	436	245	578	5,374
■ \$250K to \$1M	-	16,539	1,051	391	-	5,034	23,015
Over \$1M	-	134,059	-	-	1,983	10,309	146,351
Total Contract MODs	157	154,520	2,242	(352)	(1,097)	17,138	172,608
Contract Award Amount	6,487	1,636,419	6,181	14,430	20,250	52,830	1,736,597
% of Contract MODs	2.4%	9.4%	36.3%	-2.4%	-5.4%	32.4%	9.9%

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

Thirteen Contract MODs with a total value of \$0.2 million have been executed since the award of Contract C1034 – Exploratory Shaft Construction by Innovative Construction Solutions (ICS). The contract has been completed and is closed out.

One hundred and twenty-five Contract MODs with a total value of \$154.5 million have been executed since the award of Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing by Skanska - Traylor - Shea, a Joint Venture.

Thirty-seven Contract MODs with a total value of \$2.2 million have been executed since the award of Contract C1048 – Advanced Utility Relocations at Wilshire/La Brea by Metro Builders & Engineering Group, LTD. The contract has been completed and is closed out.

Twenty-five Contract MODs with a total value of (\$0.4) million have been executed since the award of Contract C1055 – Advanced Utility Relocations at Wilshire/Fairfax by W. A. Rasic Construction Company, Inc. The contract has been completed and is closed out.

Thirteen Contract MODs with a total value of (\$1.1) million have been executed since the award of Contract C1056 – Advanced Utility Relocations at Wilshire/La Cienega by Steve Bubalo Construction Co. The contract has been completed and is closed out.

Fifty-one Contract MODs with a total value of \$17.1 million have been executed since the award of Contract C1078 – Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building Location 64.

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

As of January 2021:

DBE Goal – Design The percentage of funds apportioned to Design Contracts	20.25%
Current DBE Commitment Design Total DBE Committed Dollars divided by Total Contract Value for Design	\$14.2 M 20.25%
Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$13.2M 19.89%

Sixteen (16) 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	\$200.2 M 12.53%
Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$160.2 M 14.04%

One hundred forty-seven (147) Construction DBE sub-contractors have been identified to date.

PROJECT LABOR AGREEMENTS (PLA)

As of January 2021:

Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Areas in the United States	40.00%
Targeted Worker Current Attainment	61.84%
Apprentice Worker Goal Construction work to be performed by Apprentices	20.00%
Apprentice Worker Current Attainment	20.04%
Disadvantaged Worker Goal Construction work to be performed by disadvantaged workers	10.00%
Disadvantaged Worker Current Attainment	12.42%

FINANCIAL/GRANT

Status of Funds by Source DOLLARS IN MILLIONS

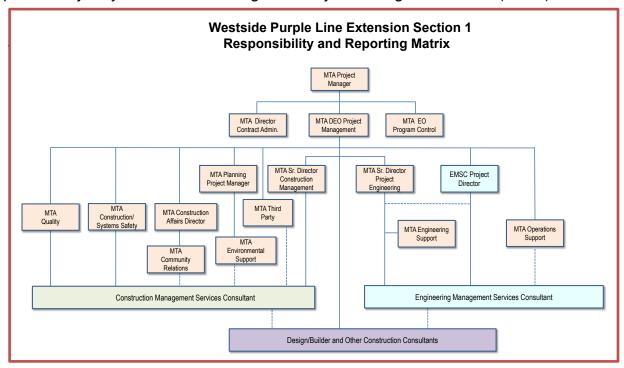
SOURCE	(A) (B) ORIGINAL TOTAL BUDGET FUNDS		(C) (D) TOTAL COMMI		(D/B) (E) TMENTS EXP		(E/B) NDITURES	(F) (F/B) BILLED TO FUNDIN SOURCE	
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL - SECTION 5309 NEW STARTS	\$1,250.000	\$1,250.000	\$665.000	\$1,250.000	100%	\$660.942	53%	\$651.080	52%
FEDERAL CMAQ	\$12.171	\$12.171	\$12.171	\$12.171	100%	\$12.171	100%	\$12.171	100%
FEDERAL SECTION 5339 - ALTERNATIVES ANALYSIS	\$0.512	\$0.512	\$0.512	\$0.512	100%	\$0.512	100%	\$0.512	100%
MEASURE R - TIFIA LOAN	\$856.000	\$749.306	\$749.306	\$749.306	100%	\$749.306	100%	\$749.306	100%
MEASURE R 35%	\$869.178	\$1,213.622	\$932.750	\$644.665	53%	\$572.924	47%	\$561.909	46%
STATE STIP RIP	\$2.568	\$2.568	\$2.568	\$2.568	100%	\$2.568	100%	\$2.568	100%
STATE CAPITAL PROJECT LOANS - OTHERS *	\$83.648	\$50.898	\$50.898	\$50.898	100%	\$50.898	100%	\$50.898	100%
CITY OF LOS ANGELES	\$75.273	\$75.273	\$1.290	\$1.290	2%	\$1.290	2%	\$1.290	2%
TOTAL	\$3,149.350	\$3,354.350	\$2,414.495	\$2,711.410	80.8%	\$2,050.611	61.1%	\$2,029.734	60.5%

EXPENDITURES ARE CUMULATIVE THROUGH FEBRUARY 28, 2021 ORIGINAL BUDGET BASED ON JULY 2014 BOARD APPROVED LOP BUDGET

^{*}OTHERS INCLUDE Prop A/C/TDA Admin (\$4.1M), General Fund (\$1.8M), and State Capital (\$45.0M)

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).



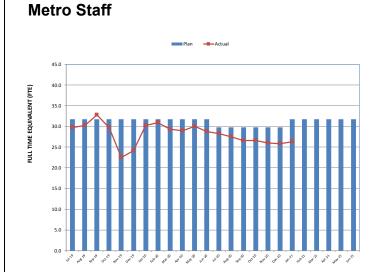
The overall FY21 Total Staffing Plan averages 105.4 FTEs per month.

For January 2021 there were a total of 26.3 FTEs for MTA's Project Administration Staff and 69.7 FTEs for Consulting Staff. The total project staffing for January 2021 was 96.0* FTEs.

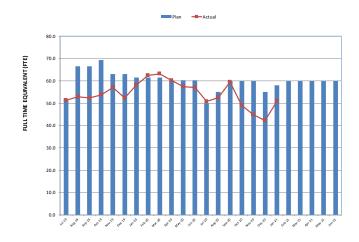
Total Project Staffing - Metro and Consultants



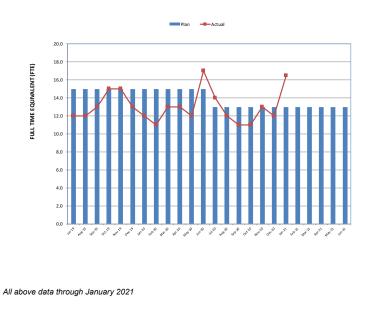
*Actuals include 2.3 FTEs related to Project Management Support Services (PMSS).



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

	Purple Line Extension Section 1 - Real Estate Status Summary							
D	Number	C4:6:1	d Appraisals Completed	Offers Made	Agreements/ Settlements Signed	Reloc	Parcels	
Description	of Parcels	Certified				Required	Completed	Available
Full Takes	9	9	9	9	9	109	109	9
Part Takes	6	6	6	6	6	0	0	6
TCE	4	4	4	4	3	0	0	4
Total Parcels	19	19	19	19	18	109	109	19

Metro has possession of all the parcels by either acquisition, possession and use agreements or stipulations. The C1045 contractor has possession of all properties along the alignment needed to construct the Project.

There remains one parcel at the Wilshire/Fairfax Station location in the condemnation phase. The final settlement agreement has been reached and is expected to be closed in March 2021.

QUALITY ASSURANCE

C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

- Reviewed daily inspection reports from the Contractor/Field Technician and CMSSC oversight inspection personnel. Inspections show that the work is predominately compliant.
- Reviewed and provided comments on quality related submittals construction work plan, project specifications, product data and quality manuals.
- Station quality progress:
 - Wilshire/La Brea engaged in oversight activities for construction of roof structure, plenum structure, spray applied fire proofing, and masonry walls.
 - Wilshire/Fairfax monitored entrance structure (SOE) excavation, concourse deck level walls, and exhaust supply appendages.
 - Wilshire/La Cienega engaged in oversight activities for construction of station entrance structure, HDPE, roof structure, and concourse deck structure.
- Processed 42 surveillances, 22 Quality Action Requests (QARs), 30 Nonconformance Reports (NCRs) and one (1) Corrective Action Request (CAR).

C1078 - Division 20 MOW and NRV Building Location 64

- Project is in final phase of completing punch list items.
- Processed two (2) surveillances, 11 QARs (all closed), 17 NCRs and one (1) CAR.

ENVIRONMENTAL

- Conducted field environmental monitoring and spot inspections for stormwater BMPs, dust, and cultural resources for Contract C1045 and third-party work activities.
- Gathered feedback and supporting documentation in response to comments on Mitigation Monitoring Reporting Program report for 4th Quarter, 2020 (Q31) from FTA reviewer.
- Performed review of 2020 Annual Paleo Report and the July through December 2020 Biannual Cultural Monitoring Report from Cogstone.
- Performed review of planned traffic control, pedestrian access, and bicycle routes adjacent to planned construction areas for Wilshire/La Cienega appendage activities for 2021 and beyond.

CONSTRUCTION AND COMMUNITY RELATIONS

- Attended virtual Neighborhood Council meetings, monthly environmental mitigation meetings, held meetings online and made Project presentations to: Beverly Hills residents and business stakeholders, elected officials' deputies, construction community meetings and various stakeholders.
- Continued with the "Eat, Shop, Play Spotlight" (ESP) campaign to advertise and promote businesses that participate in ESP Wilshire and Beverly Hills, specific to eateries that remained open for pick-up and delivery during COVID-19 restrictions.
- Continued additional construction mitigations including business signage, street signs and print ads at no cost to the businesses.
- Corresponded with Los Angeles City Council district offices and City of Beverly Hills regarding construction effects on traffic and shared major stakeholder concerns.
- Updated website, Facebook, Twitter as needed. Published monthly PLE (Purple Line Extension) newsletter to email list. Placed monthly ads in local papers.
- Tours were suspended due to COVID-19.
- Produced and distributed:
 - Eleven (11) construction work notices for construction activities;
 - The La Cienega Monthly Look Ahead;
 - Weekly look-ahead for Division 20;
 - Weekly construction look-ahead emails to construction stakeholders; and
 - o Monthly look-ahead emails for the City of Beverly Hills.

CREATIVE SERVICES

- Continued design development for artwork lighting.
- Continued design development for Wilshire Customer Center artwork relocation to Wilshire/Western Station.
- Continued design development for concourse glass tile artwork design at Wilshire/La Cienega Station.
- Coordination underway with design-builder for fabrication procurement.

SAFETY & SECURITY

- There were no recordable injuries in February 2021.
- Metro Safety staff conducted daily safety inspections, attended weekly Tool Box, Progress, readiness review and other project meetings to evaluate Contractor's safety program compliance with contract requirements.
- Metro Safety staff worked regularly 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.
- The Purple (Elsie) Tunnel Boring Machine (TBM) crews prepared for hyperbaric entry for reducing the anomaly in the grouted zone at San Vicente and Wilshire Blvd.
- January 2021 Contractor Work Hours (Design & Construction): 87,782
- Contractor Project to Date Work Hours (Design & Construction) (through 1/31/21): 4.345.564
- Total Project to Date Work Hours (Contractor & the IPO Staff) (through 1/31/21): 5,421,029
- Project to Date Recordable Injury Rate: 1.37 (37 Recordable Injuries) (each rate is per 200,000 work hours) (National Rate: 2.5)
- Project to Date Total Days Away (DART) Injury Rate: 0.11 (3 Days Away or Lost Time) (each rate is per 7 Days/Time Away from Work Injuries) (National Rate: 1.5)

APPENDIX CHRONOLOGY OF EVENTS

June 2007 Began Alternatives Analysis study

January 2009 Board approval of Alternatives Analysis study and next phase

February 2009 Began Draft Environmental Impact Statement / Report (EIS / EIR)

October 2010 Board approval of Draft EIS / EIR and selection of locally preferred

alternative

January 2011 FTA approval to enter Preliminary Engineering

May 2011 Began Preliminary Engineering

April 2012 Board certification of Final EIS / EIR and adoption of project

July 2012 Completion of Exploratory Shaft final design

August 2012 FTA Record of Decision

September 2012 Began Real Estate Acquisition

November 2012 Began Final Design - C1048 - Advanced Utility Relocations contract -

Wilshire/La Brea

November 2012 Began Final Design - C1055 - Advanced Utility Relocations contract -

Wilshire/Fairfax

November 2012 Issued RFQ for C1045 Design / Build contract

December 2012 Began Final Design - C1056 - Advanced Utility Relocations contract -

Wilshire/La Cienega

January 2013 Began C1034 Exploratory Shaft construction

February 2013 Received RFQ responses for C1045 Design / Build contract

June 2013 Issued RFP for C1045 Tunnels, Stations, Trackwork, Systems and

Systems Integration Testing

June 2013 Beginning of C1055 AUR Wilshire/Fairfax Bid Period

July 2013 Submitted draft FFGA application

July 2013 Completed Final Design - C1048 - Advanced Utility Relocations contract -

Wilshire/La Brea

Westside Purple Line Extension Section 1 Project Monthly Project Status Report

July 2013	Submitted TIFIA loan application
August 2013	Began C1048 Advanced Utility Relocations contract – Wilshire/La Brea
August 2013	NTP for Construction Management Support Services Contract
January 2014	Submitted application to FTA requesting an FFGA
January 2014	Received RFP Proposals for Contract C1045
February 2014	Beginning of C1056 AUR Wilshire/La Cienega Bid Period
May 2014	FTA awarded FFGA
May 2014	Received TIFIA Loan
June 2014	Began C1055 Advanced Utility Relocations at Wilshire/Fairfax
July 2014	Metro Board approved staff recommendation to award Contract C1045 and approved Life-of-Project Budget
September 2014	Issued Invitation to Bid for Contract C1078
October 2014	Issued C1056 Contract Award
November 2014	Issued C1045 Contract Award
January 2015	Issued C1045 Contract Notice to Proceed
January 2015	Issued C1056 Contract Notice to Proceed
February 2015	Received Contract C1078 Bids
August 2015	Issued C1078 Contract Award
September 2015	Issued C1078 Contract Notice to Proceed
October 2015	Contract C1055 achieved Substantial Completion
December 2015	Began piling operations for Wilshire/La Brea Station
June 2016	Began deck beam and decking operations for Wilshire/La Brea Station
August 2016	Began piling operations for Wilshire/Fairfax Station
August 2016	Contract C1056 achieved Substantial Completion
February 2017	Began deck beam and decking operations for Wilshire/Fairfax Station

Westside Purple Line Extension Section 1 Project Monthly Project Status Report

March 2017	Began piling operations for Wilshire/La Cienega Station
June 2017	Decking operations for Wilshire/Fairfax Station are complete
September 2017	Began utility relocation work at the Wilshire/Western site
October 2017	Began street decking for Wilshire/La Cienega Station
November 2017	Began concreting activities for Wilshire/La Brea Station
December 2017	Structural steel erection commenced at the Division 20 Maintenance-of- Way and Non-Revenue Vehicle Building Location 64
January 2018	Decking operations for Wilshire/La Cienega Station are complete
February 2018	Began invert slab concrete placement at the Wilshire/La Brea Station
April 2018	Wilshire/Fairfax Station excavation cleared the Paleo Zone (Elevation 105')
June 2018	Concrete wall pours needed to support TBM assembly at Wilshire/La Brea Station have been completed
July 2018	Began delivery of TBM components to the Wilshire/La Brea Station site
October 2018	The Reach One (1) mining operation commenced with the launch of TBM #1 from Wilshire/La Brea Station.
November 2018	TBM #2 was launched from Wilshire/La Brea Station.
December 2018	The bottom of excavation was reached at the Wilshire/Western TBM Retrieval site.
January 2019	The temporary concrete slab at the Wilshire/Western TBM Retrieval site was placed.
February 2019	Reached the bottom of excavation at Wilshire/Fairfax Station.
March 2019	Completed mud mad placement at Wilshire/Fairfax Station.
April 2019	HDPE protection slab placement commenced at Wilshire/Fairfax Station.
May 2019	Substantial Completion for the C1078 Contract (Division 20 MOW/NRV Building Location 64) was achieved on May 1, 2019.
June 2019	Both TBM #1 (Soyeon) and TBM #2 (Elsie) completed the Reach One (1) tunnel alignment mining.

Westside Purple Line Extension Section 1 Project Monthly Project Status Report

July 2019	Began transport of both TBMs (#1 Soyeon and #2 Elsie) from the Wilshire/Western Shaft to Wilshire/La Brea Station.
August 2019	Completed invert concrete placement at Wilshire/Fairfax Station.
September 2019	Bottom of excavation reached at Wilshire/La Cienega Station.
October 2019	TBM #2 (Elsie) commenced Reach #2 tunnel drive.
November 2019	Completed 1 st lift exterior wall concrete placement at Wilshire/Fairfax Station.
December 2019	Commenced station invert concrete placement at Wilshire/La Cienega Station.
January 2020	Commenced Reach 1 cross passage excavation.
February 2020	Completed Wilshire/La Cienega Station invert concrete placement.
March 2020	Commenced Wilshire/La Brea Station roof concrete placement.
April 2020	Arrival of first rail delivery to the Division 20 Rail Yard.
May 2020	TBM #1 (Soyeon) completed the Reach #2 tunnel drive. TBM #2 (Elsie) commenced the Reach #3 tunnel drive.
June 2020	Completed 1st lift wall concrete placement (GL 3-15) at Wilshire/La Cienega Station. Completed Reach Two (2) tunnel mining.
July 2020	TBM #1 (Soyeon) commenced the Reach #3 tunnel drive.
August 2020	Commenced concourse concrete placement at Wilshire/Fairfax Station.
September 2020	The first roof placement (Block 7) at Wilshire/La Cienega Station was completed.
October 2020	Commenced welding running rail at the Division 20 Rail Yard.
November 2020	Placed protection slab at the Wilshire/La Cienega Station entrance.
December 2020	Completed welding of running rail at the Division 20 Rail Yard.
January 2021	The Purple TBM (Elsie) restarted the Reach 3 tunnel drive and has reached the Wilshire/San Vicente anomaly site.
February 2021	The Purple TBM (Elsie) completed the Reach 3 tunnel drive.

February 2021	Start of Reach 1 tunnel invert concrete placement.