Westside Purple Line Extension Section 1 Project



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QUARTERLY PROJECT STATUS REPORT

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December 2019

TABLE OF CONTENTS

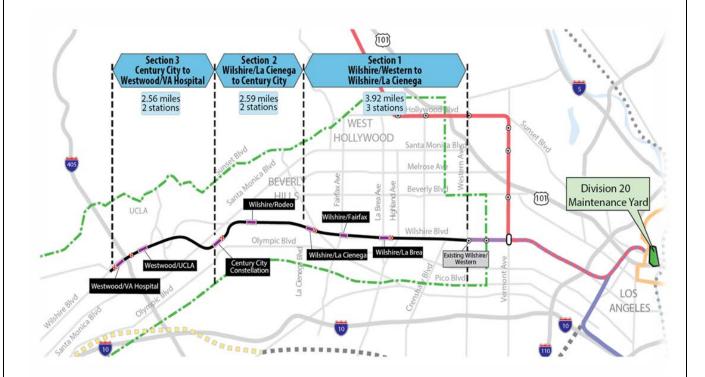
Project Overview1
Executive Summary 6
Project Status9
Project Schedule9
Project Summary Schedule9
Progress Summary 10
Planned vs. Actual Progress 10
Key Milestones Six-Month Look Ahead11
Major Equipment Delivery12
Critical Path
Project Schedule Contingency Drawdown14
Risk Management Narrative15
Project Cost
Project Cost Status & Analysis16
Cost Contingency Drawdown & Analysis 17
Summary of Contract Modifications 18
Disadvantaged Business Enterprise (DBE) 19
Project Labor Agreement 20
Financial/Grant
Project Staffing
Real Estate 24
Quality Assurance Report
Environmental
Construction and Community Relations
Creative Services
Safety and Security
Appendices
Chronology of Events

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 Section 1, 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.

Contract C1056 – Wilshire/La Cienega Advanced Utility Relocations

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.

<u>Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing</u> 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> <u>Location 64</u>

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 was substantially completed on May 1, 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 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 remains the same this period at \$3.2 billion. A detailed Life of Project Budget forecast is included under the Budget and Cost Forecast Section of this report.

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

- Federal Section 5309 New Starts
- Federal 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 the communication, community leadership councils have been formed which represent geographic-based constituent groups along the Project.

The Project is also engaged in social media outreach and various marketing and advertising efforts designed 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.

<u>Start Up:</u> The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a "stress test" of maximum operational service levels to be acceptable. Pre-Revenue Operations include train runs, especially those involving multiple trains, on the integrated and fully operational extension; rehearsal of expected revenue operations scenarios; 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 December, the Project achieved 56.0% completion based on earned value measurements for design and construction. The critical path of the project remains Reach One (Wilshire/La Brea Station to Wilshire/Western Shaft) cross passage construction. On November 6, 2019, Reach One (1) cross passage construction commenced. *Cross passage excavation is scheduled to start in January 2020.* The C1045 Design/Build Contract is on schedule to complete by the June 15, 2023, contract completion date, and the forecast Revenue Service Date (RSD) for the Project remains targeted for 2023.

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

As of December 30, 2019, TBM #2 (Elsie) has excavated 1,988 feet, or 45% of the Reach Two (2) (Wilshire/La Brea Station to Wilshire/Fairfax Station) alignment, and TBM #1 (Soyeon) has excavated 523 feet, or 12% of the Reach Two (2) alignment. Reach One (1) cross passage construction is underway. Cross passage excavation is scheduled to begin in January 2020.

At Wilshire/La Brea Station, concrete placement for the exterior wall at the east hammerhead is scheduled to complete in January 2020. Assembly of roof forms moves forward and 2nd lift exterior wall concrete placement continues.

At Wilshire/Fairfax Station, excavation at the entrance appendage is scheduled to commence in January 2020. Preparations for TBM acceptance at the station continues with tunnel eye, TBM cradle and temporary rail installation.

At Wilshire/La Cienega Station, station invert concrete placement continues. Rebar installation for the 1st lift walls is scheduled to start in February 2020. Daily maintenance of dewatering wells continues, along with maintenance of surface aesthetics per the COBH MOA.

The design/build contractor for the Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building Location 64 Contract (C1078) achieved substantial completion on May 1, 2019. Final punch list items continue to be worked on by the contractor. The process of moving Metro staff into the new building is complete.

Demolition of the existing Division 20 Building is complete. The C1045 design-build contractor is scheduled to take possession of the Division 20 site for rail welding in February 2020.

Cost and Schedule Summary

For the C1045 Design/Build contract, Metro has received the December 2019 schedule update, which reports the substantial completion date finishing 74 calendar days after the June 15, 2023 contractual date. Mitigation efforts, along with other planned remedial actions for follow-on construction activities, continue to be implemented. It is anticipated that the contractual completion date will be achieved.

The critical path of the project continues to run through Reach One (Wilshire/La Brea Station to Wilshire/Western Shaft) cross passage construction, tunnel concrete/MEP and trackwork installation along Reach One, followed by systems, testing and pre-revenue operations. A summary graphic of the critical path is found on Page 13.

Long range schedule planning for the second half of the project through substantial completion of C1045 continues. The immediate goal is to incorporate the current construction approach into the monthly schedule update for the following remaining components of work:

- Phasing between TBM mining, cross passages, tunnel concrete, tunnel/cross passage MEP and track (rail); and follow-on milestones for systems (wayside) access.
- Scope of work/sequence associated with station concrete.
- Detail MEP schedule for all three stations, including permanent power and systems integrated testing.
- Detail appendage schedule for all three stations.
- Early systems/tie-in at Wilshire/Western Station.

Potential schedule impacts are being identified and assessed as this long-range plan continues to be refined. It is anticipated that the first elements of this plan will be incorporated into the project schedule by the first quarter of 2020.

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	08/28/23	06/15/23	-74 days

Project costs continue to track within budget and projected contingency limits. To date, the Current Budget and Current Forecast remains the same this period at \$3.2 billion. There are no claims on the Project. Detailed cost and budget information is provided on Page 16.

Key Management Concerns

No concerns to report at this time.

Project Construction Photos



Cross Passage 10 Construction



Wilshire/La Brea Station North Exterior Wall



Temporary Rail Installation at Wilshire/Fairfax Station



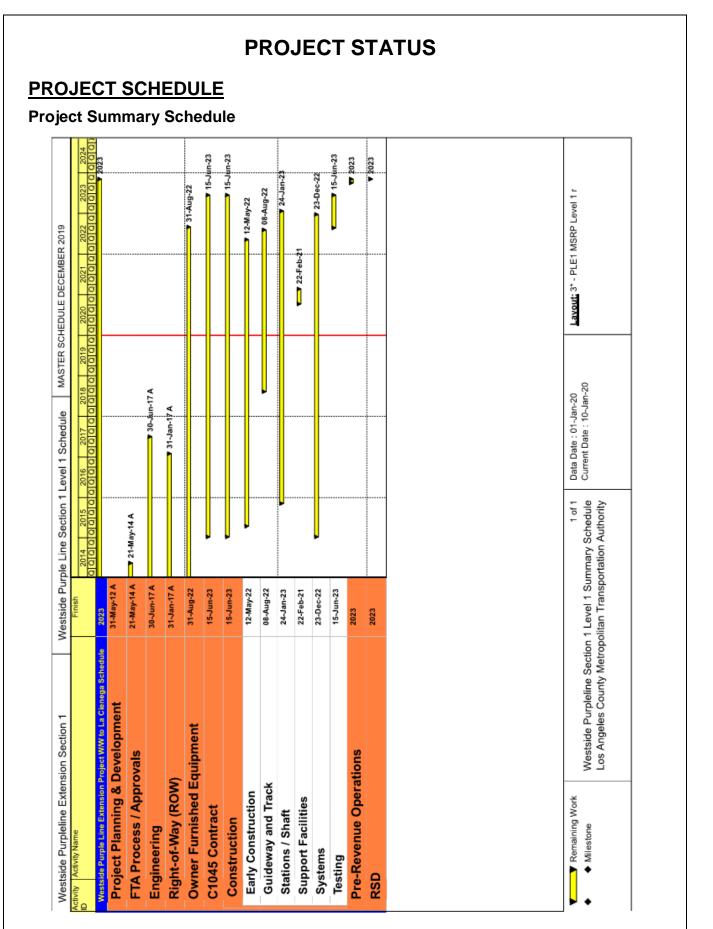
Invert Rebar Installation at Wilshire/La Cienega Station



Entrance Appendage Excavation at Wilshire/Fairfax Station



2nd Lift Exterior Wall Forms at Wilshire/La Brea Station



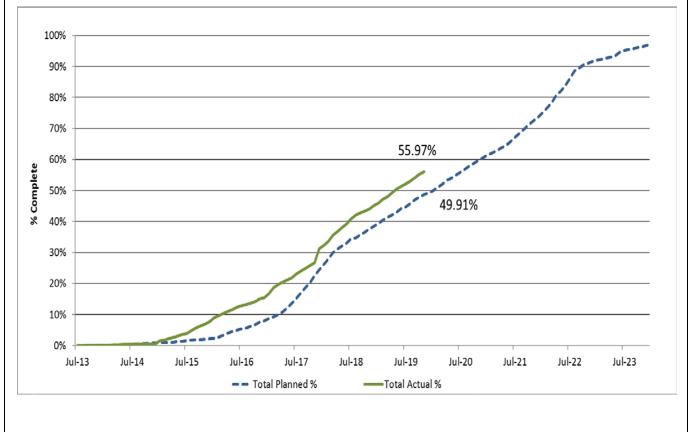
Westside Purple Line Extension Section 1 Project Quarterly Project Status Report

	Status	Change from Last Period	Comment
Forecast Revenue Service	2023		
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 Progre	SS:		
Contract C1048	100.0%	0.0%	Completed on Schedule
Contract C1045	52.6%	0.8%	
Contract C1055	100.0%	0.0%	Completed on Schedule
Contract C1056	100.0%	0.0%	Completed on Schedule
Contract C1078	99.8%	0.1%	Punchlist/Close-out Remain

Progress Summary

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





Key Milestone Six-Month Look Ahead							
	Milestone Date	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
Wilshire/La Cienega: Commenced Invert Concrete Placement	12/05/19 A	\bigcirc					
Wilshire/Fairfax: Commenced Piling Activities at Entrance Structure	12/09/19 A	\bigcirc					
Commence Excavation at Cross Passage #10	01/06/20		\bigcirc				
Wilshire/La Brea: Place Platform Level North Exterior Wall (GL 1-5)	01/07/20		\bigcirc				
Wilshire/La Brea: Place Concourse Exterior Wall Concrete (Blocks 8 & 9)	01/14/20		\bigcirc				
Wilshire/Fairfax: Complete TBM Acceptance Preparation	02/03/20			\bigcirc			
Wilshire/La Cienega:Complete Invert Concrete Placement	03/02/20				\bigcirc		
TBM #2 (Elsie) Completes Reach #2 Tunnel Drive	03/02/20				\bigcirc		
Wilshire/La Cienega:Complete 1st Lift Exterior Wall Concrete Placement	03/28/20				\bigcirc		
TBM #1 (Soyeon) Completes Reach #2 Tunnel Drive	04/06/20					\bigcirc	
Wilshire/Fairfax: Commence Falsework for High Bay Wall	04/20/20					\bigcirc	
Wilshire/La Brea: Complete East End Roof Concrete Placement	05/11/20						\bigcirc
MTA Staff MTA Board Action	FTA Admi	(Federal T inistration)	ransit	\bigtriangledown	Utility Con	npany	
△ Other Agencies	🔵 Design	n Consulta	nt	\bigcirc	D/B Contr	actor	
"A" following date is actual and completed	* New						
"A" following date is actual and completed	* New						
"A" following date is actual and completed	* New						
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Major Equipment Delivery 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	1/19/21	1/20/21				
Station Elevators	4/27/18A	4/27/18A	12/26/20	9/30/21				
Station Escalators	4/27/18A	3/29/20	2/24/21	9/30/21				
Track - Running Rail	3/29/20	5/8/20	1/3/21	6/25/21				
Traction Power Equipment	3/26/20	6/5/20	9/28/20	3/1/21				
Automatic Train Control	4/1/16A	7/1/16A	12/20/16A	2/17/22				
SCADA RTU System	2/2/17A	1/16/18A	5/18/18A	7/1/21				
Radio System	2/2/17A	6/5/20	7/31/20	8/16/21				
Heavy Rail Vehicles***	7/16/15A	5/1/19A	8/31/22	1/9/23				
	TBD		TBD	10/14/04				
Universal Fare System***	עמו	TBD	ТВО	12/14/21				

* Dates derived from STS's December 2019 Updated Schedule.

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

*** Metro supplied equipment

Pr	ojec	t Cr	itica	l Pa	th																
	20	19			20	2020			20	21			20	22			20	23		20	24
Q1	Q2	Q3	Q 4	Q1	Q2	Q3	Q 4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
	Assem (ssages)																				
			Reach :																		
						Tunnel	Concre	ete / M	EP												
						- La B	irea Sta	ation to	.												
						West	tern (R	each 1)													
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														S		: Integr evenue		esting ations	-		
																R	SD 20	23 🔶			

For the month of December 2019, the critical path of the project remains Reach One (Wilshire/La Brea Station to Western Shaft) cross passage construction.

On November 6, 2019, Reach One (1) cross passage construction commenced. *Cross passage excavation is scheduled to start in January 2019.*

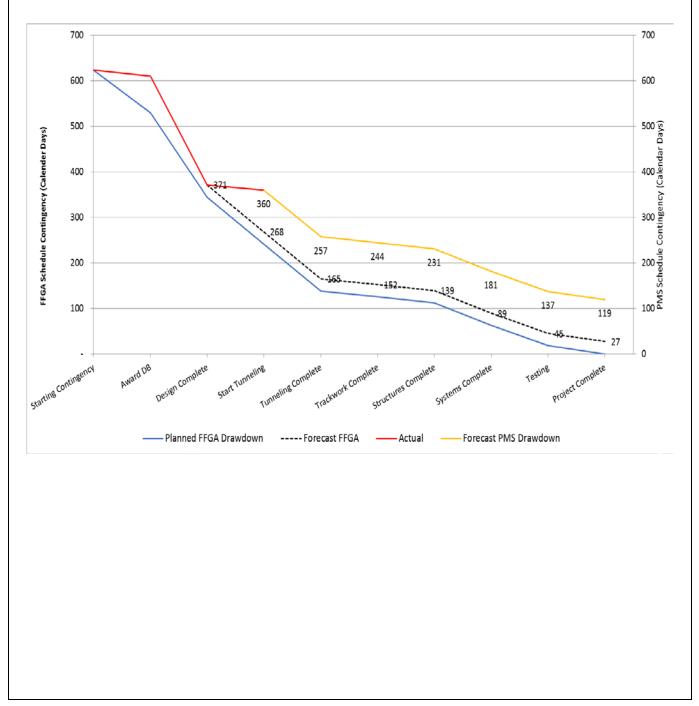
The Revenue Service Date remains in 2023.

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.

With regards to the FFGA RSD, schedule float of twelve (12) months has been maintained.



Risk Management Narrative

Summary of Risks

The WPLE Section 1 Project Risk Register has been updated through December 2019. Within this quarterly reporting period there were no new risks identified and no risks were closed. A total of thirty-five (35) risks remain to be managed in the next reporting period.

Of the thirty-five (35) risks, four (4) are scored as high, nine (9) as medium and twenty-two (22) as low.

Top Four (4) Risks

The table below shows the top four (4) project risks.

Risk ID	Risk Description	Risk Score	Action Items
633.0	Cost of ROW acquisition exceeds the FFGA SCC Line Item.	15	 Metro's Life of Project Budget includes contingency that covers the increase. The Risk Score will remain as "high" until the \$3.15 billion Life of Project Budget is reconciled with the \$2.82 billion FFGA Budget. FTA has approved the property sale. Escrow on the Gale property has closed. Proceeds from the sale have been reflected in FIS (Financial Information System). Project cost reconciliation with Real Estate is nearly complete. One parcel at Wilshire/Fairfax remains in the condemnation phase.
675.0	DBE Participation Goal for Construction. Currently targeted at 17%.	13	 DB Contractor making good faith efforts to meet DBE goals.
676.0	Subcontractor ability to get the required resources to perform work.	13	1. Actively manage schedule and resource needs.
677.0	Resource (Labor) shortage (Direct and Indirect).	13	1. Actively manage schedule and resource needs.

Top Risks

PROJECT COST

Project Cost Analysis - 865518

DOLLARS IN THOUSANDS

SCC	SCC DESCRIPTION		CURREN	T BUDGET	СОММІ	TMENTS	EXPEN	DITURES	CURRENT	FORECAST	CURRENT BUDGET / FORECAST
CODE		BUDGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	388,294	-	388,294	-	391,424	5,057	220,893	-	395,023	6,729
20	STATIONS, STOPS, TERMINALS, INTERMODAL	440,621	-	440,621	972	490,809	7,034	240,565	-	522,582	81,961
30	Support Facilities: Yards, Shops, Admin. Bldgs	43,323	-	43,323	239	45,269	622	45,017	483	45,447	2,124
40	SITEWORK & SPECIAL CONDITIONS	751,566	-	754,491	12	787,379	4,373	592,214	(498)	810,081	55,590
50	SYSTEMS	113,574	-	113,574	-	101,293	86	29,402	-	116,993	3,419
	CONSTRUCTION SUBTOTAL (10-50)	1,737,378	-	1,740,303	1,224	1,816,173	17,172	1,128,091	(15)	1,890,126	149,823
60	ROW, LAND, EXISTING IMPROVEMENTS	175,634	-	175,634	-	202,980	770	183,900	-	202,980	27,346
70	VEHICLES	160,196	-	160,196	-	98,118	-	17,527	-	108,302	(51,893)
80	PROFESSIONAL SERVICES	412,710	-	414,785	3	436,767	3,536	362,134	15	511,053	96,268
	SUBTOTAL (10-80)	2,485,918	-	2,490,918	1,227	2,554,038	21,477	1,691,651	-	2,712,461	221,543
90	UNALLOCATED CONTINGENCY	248,592	-	248,592	-	-	-	-	-	71,454	(177,138)
100	FINANCE CHARGES	375,470	-	375,470	-	-	-	-	-	331,065	(44,405)
	TOTAL PROJECTS 465518 & 865518 (10-100)	3,109,980	-	3,114,980	1,227	2,554,038	21,477	1,691,651	-	3,114,980	-
	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	-	3,154,350	1,227	2,593,408	21,477	1,731,008	-	3,154,350	-

Original Budget

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.

Current Budget

The Current Budget remains the same this period at \$3.2 billion.

Current Forecast

The Current Forecast remains the same this period at \$3.2 billion. However, the Support Facilities: Yards, Shops, Admin. Bldgs. increased by \$0.5 million, and the Sitework & Professional Services increased by \$15K for anticipated future changes associated with the Design/Build Contract C1078.

Commitments

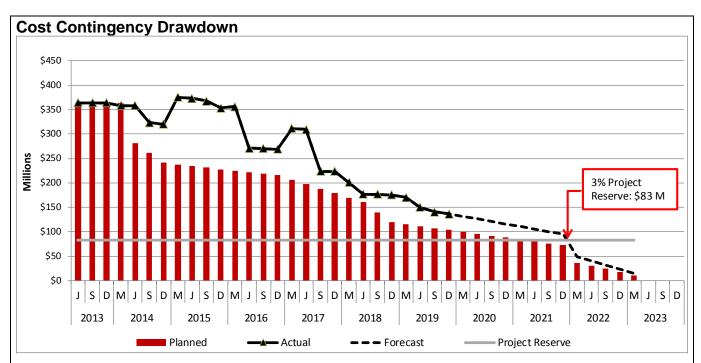
The Commitments increased by \$1.2 million primarily due executed Contract Modifications for the Design/Build Contracts C1045 & C1078. The \$2.6 billion in Commitments to date represent 82.2% of the Current Budget.

Expenditures

The Expenditures increased by \$21.5 million primarily for costs associated with the Design/Build Contracts C1045 & C1078, Real Estate Acquisitions, Engineering Management Support Services, Construction Management Support Services, and Metro Project Administration. The \$1.7 billion in Expenditures to date represent 54.9% of the Current Budget.

December 2019

Westside Purple Line Extension Section 1 Project Quarterly Project Status Report



Cost Contingency Drawdown Analysis

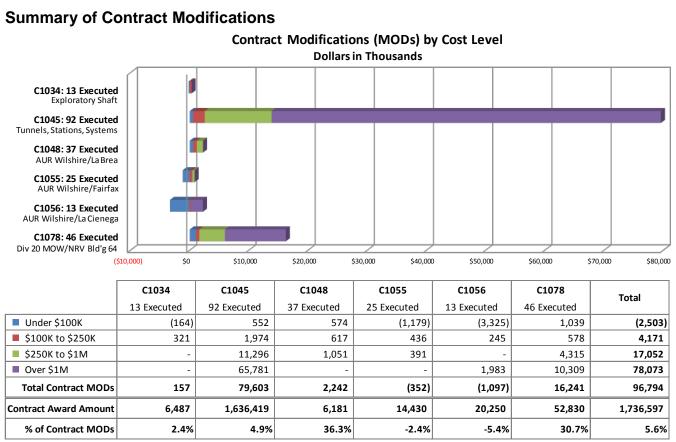
The Original Budget of \$3.2 billion (plus Finance Charges of \$0.4 billion) includes a project cost contingency of \$320.6 million or 10.2% of the total project. The project cost contingency of \$320.6 million is based upon the Life of Project (LOP) Budget that was approved by the Board in July 2014. The LOP Budget also included an allocated contingency amount of \$72.0 million. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro where applicable to specific contracts within each Standard Cost Category (SCC).

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

The project cost contingency drawdown curve is based on a 2023 Revenue Service date.

The allocated contingency decreased this period by \$1.2 million due to executed Contract Modifications for the Design/Build Contracts C1045 and C1078.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS								
Original Contingency (Budget) Period Period Current Period Contingency (Budget)								
Unallocated Contingency	248,592	(177,138)	-	(177,138)	71,454			
Allocated Contingency	71,963	(5,648)	(1,215)	(6,863)	65,101			
Total Contingency	320,555	(182,786)	(1,215)	(184,001)	136,555			



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.

Ninety-two Contract MODs with a total value of \$79.6 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.

Forty-six Contract MODs with a total value of \$16.2 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)

(Reported Data as of November 2019)

DBE Goal – Design The percentage of funds apportioned to Design Contracts	20.25%
Current DBE Commitment Design	\$13.6 M
Total DBE Committed Dollars divided by Total Contract Value for Design	20.25%
Current DBE Participation	\$12.5 M
Total amount paid to date to DBEs divided by the amount paid to date to Prime:	20.04%

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	\$168.5M
Contract commitment divided by current contract value for Construction	10.55%
Current DBE Participation	\$130.1M
Total amount paid to date to DBEs divided by the amount paid to date to Prime:	14.48%

One hundred twenty-six (126) Construction DBE sub-contractors have been identified to date.

PROJECT LABOR AGREEMENTS (PLA)

(Reported Data as of November 2019)

Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Areas in the United States	40.00%
Targeted Worker Current Attainment	62.67%
Apprentice Worker Goal	
Construction work to be performed by Apprentices	20.00%
Apprentice Worker Current Attainment	18.35%
Disadvantaged Worker Goal	
Construction work to be performed by disadvantaged workers	10.00%
Disadvantaged Worker Current Attainment	12.44%

FINANCIAL/GRANT

Status of Funds by Source DOLLARS IN MILLIONS

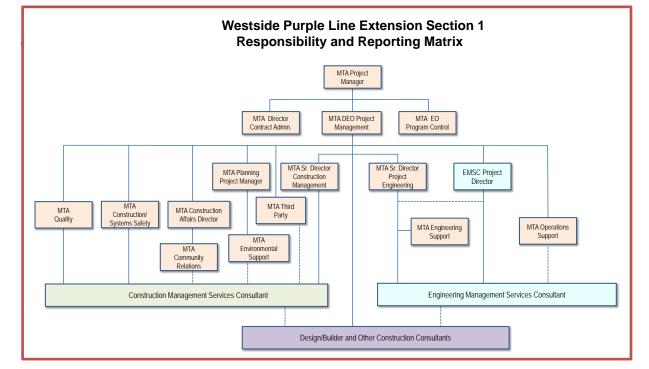
SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMIT \$	(D/B) MENTS %	(E) EXPE \$	(E/B) NDITURES %	(F) BILLED TC SOURC \$	
FEDERAL - SECTION 5309 NEW STARTS	\$1,250.000	\$1,250.000	\$565.000	\$1,250.000	100%	\$500.000	40%	\$485.028	39%
FEDERAL CMAQ	\$12.171	\$12.171	\$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	\$856.000	\$642.612	\$642.612	75%	\$610.479	71%	\$610.479	71%
MEASURE R 35%	\$869.178	\$874.178	\$700.000	\$600.607	69%	\$520.340	60%	\$494.989	57%
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	\$83.648	\$83.648	\$83.648	100%	\$83.648	100%	\$50.898	61%
CITY OF LOS ANGELES	\$75.273	\$75.273	\$1.290	\$1.290	2%	\$1.290	2%	\$1.290	2%
TOTAL	\$3,149.350	\$3,154.350	\$2,007.801	\$2,593.408	82.2%	\$1,731.008	54.9%	\$1,657.935	52.6%

EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 31, 2019 ORIGINAL BUDGET BASED ON JULY 2014 BOARD APPROVED LOP BUDGET

* OTHERS INCLUDE TDA ADMINISTRATION (\$4.1M), LTF GENERAL REVENUES (\$1.8M), AND LEASE REVENUES (\$37.8M)

PROJECT ORGANIZATION AND STAFFING

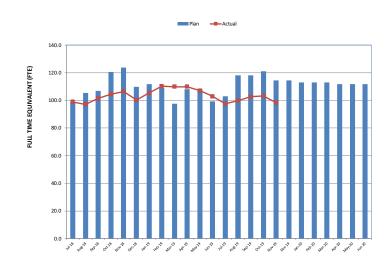
The design-build contract is being managed by a joint team of Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO).



The overall FY20 Total Staffing Plan averages 113.1 FTEs per month.

For November 2019, there were a total of 22.5 FTEs for MTA's Project Administration Staff and 75.9 FTEs for Consulting Staff. The total project staffing for November 2019 was 98.4* FTEs.

Total Project Staffing – Metro and Consultants



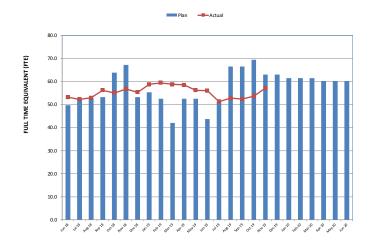
*Actuals include 3.8 FTEs related to Project Management Support Services (PMSS).

Westside Purple Line Extension Section 1 Project Quarterly Project Status Report

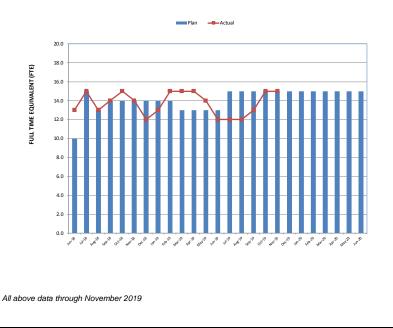
Metro Staff



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.

			REA	AL EST	ATE			
Purple Line Extension Section 1 - Real Estate Status Summary								
Description	Number of Parcels	Certified	Appraisals Completed	Offers Made	Agreements/	Reloc	Parcels	
					Settlements Signed	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. Settlement discussions are on-going with the owner.

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 second lift walls at the high bay area.
 - Wilshire/Fairfax Station engaged in oversight activities for construction of first lift walls (rebar placement).
 - Wilshire/La Cienega engaged in oversight activities for construction of invert base slab, rebar placement.
- Processed 32 surveillances, 19 Quality Action Requests, 23 Nonconformance Reports and one (1) Corrective Action Request.

C1078 – Division 20 MOW and NRV Building Location 64

- Project is in final phase of completing punch list items.
- Closeout and completion of punch list items are in progress.
- Submission of Contract required documents for closing is in progress including owner's manual, warranties and record drawings.
- Contractor in the process of submitting remaining project deliverables such as rebar mill certifications, concrete test data and daily inspection reports.
- Processed two (2) surveillances, 11 Quality Action Requests (all closed), 17 Nonconformance Reports and one (1) Corrective Action Request.

ENVIRONMENTAL

- Conducted field environmental monitoring and spot inspections for stormwater BMPs, dust, and cultural resources for C1045 and third party work activities.
- Evaluation of impacts to sensitive receptors potentially affected by construction traffic at center muck shaft, appendages, station entrance, and Wilshire/La Cienega Station.
- Work with City of Beverly Hills staff in preparation for City Council approval of parking lot lease and prepare documentation of mitigation measures in place and proposed.
- Evaluate monitoring requirements and coordinate with paleontological consultant for upcoming cross passage excavation activities.
- Submit formal request for approval of new assigned Principal Paleontologist to the Natural History Museum in accordance with MOU.

CONSTRUCTION AND COMMUNITY RELATIONS

- Held meetings, attended monthly environmental mitigation meetings, and made Project presentations at the following: Beverly Hills City Hall, Elected Officials Deputies, Construction Community Meetings and various stakeholders.
- Continued additional business mitigations including: alternative parking options, business signage, street signs and print ads at no cost to the businesses.
- Continued with the "Eat, Shop, Play Spotlight" campaign to advertise and promote businesses that participate in ESP Wilshire and Beverly Hills.
- Updated website, Facebook, Twitter as needed. Published monthly PLE (Purple Line Extension) newsletter to email list.
- Continued site tours of PLE Section 1 stations for stakeholders.
- Corresponded with council district offices regarding construction effects on traffic and shared major stakeholder concerns.
- Produced and distributed:
 - o four (4) construction work notices for construction activities;
 - o the La Cienega Monthly Look Ahead;
 - o weekly construction look ahead emails to construction stakeholders; and
 - o monthly look ahead for the City of Beverly Hills.

CREATIVE SERVICES

- Design development for eight (8) artwork locations within the stations.
- Continued design development for Wilshire Customer Center artwork relocation to Wilshire/Western Station.
- Proposal development by artist finalists for concourse glass tile artwork design at Wilshire/La Cienega Station.
- Proposal development by arts and cultural organization finalists for artwork designs for construction site banners.

SAFETY & SECURITY

- There were no recordable injuries for December 2019.
- Metro Safety staff attended weekly Tool Box, Progress, readiness review and other project meetings to evaluate Contractors Safety Program compliance with contract requirements.
- 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.
- STS and Metro staff participated in two CAL OSHA work space inspections. No major violations were observed.
- November 2019 Contractor Work Hours (Design & Construction): 80,984
- Contractor Project to Date Work Hours (Design & Construction) (through 11/30/19): 3,171,441
- Total Project to Date Work Hours (Contractor & the IPO Staff) (through 11/30/19): 4,234,282
- Project to Date Recordable Injury Rate: 1.2 (30 Recordable Injuries) (each rate is per 200,000 work hours) (National Rate: 2.5)
- Project to Date Total Days Away (DART) Injury Rate: 0.3 (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

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 Quarterly 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.

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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.