

July 21, 2023

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SR. EXECUTIVE OFFICER (INTERIM)

**SUBJECT:** 

PURPLE (D LINE) EXTENSION TRANSIT PROJECT SECTION 3

JUNE 2023 QUARTERLY PROJECT STATUS REPORT

Enclosed herewith is the Quarterly Project Status Report for the Purple (D Line) Extension Transit Project Section 3. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Purple (D Line) Extension Transit Project Section 3 status for the period ending June 30, 2023.

If you have any questions regarding this report or its supporting information, please contact Marvin Li, Deputy Executive Officer, Program Control at (424) 551-4523.

KO: mh Enclosure

# Purple (D Line) Extension Transit Project Section 3

QUARTERLY 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).

June 2023

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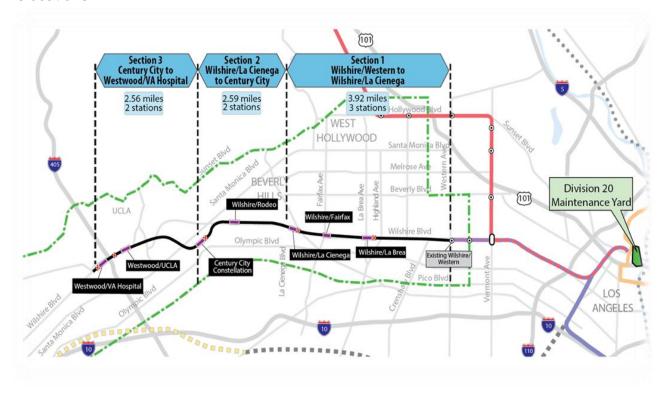
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#### PROJECT OVERVIEW

#### **Project Background**

The Purple (D Line) Extension Transit Project Section 3 (Project) is the third of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority's (Metro) Measure R and Measure M Programs. The Measure R and Measure M Programs were approved by Los Angeles County voters in November 2008 and in November 2016, respectively, and provide in total a one-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by Metro Board of Directors.

Section 3 will extend to Westwood from the future Century City Constellation Station that is part of the Westside Purple Line Extension Section 2 Project and currently under construction. The Project is located entirely underground, primarily following Wilshire Boulevard, and includes the design and construction of approximately 2.56 miles of double-track heavy rail, two new stations as well as the purchase of 16 heavy rail vehicles. The Westwood/UCLA Station is within the jurisdiction of the City of Los Angeles, and the Westwood/Veterans Administration (VA) Hospital Station is within the jurisdiction of the unincorporated area of Los Angeles County. The Project also includes train controls, signals, traffic controls, communications, traction power supply and distribution, fare collection systems and equipment, acquisition of right-of-way, and utility relocations.



The Westwood/UCLA Station box will be under Wilshire Boulevard beginning west of Westwood Boulevard and extending to the east of Veteran Avenue. The station will have three entrances, two full entrances on the north side of Wilshire Boulevard and one-half entrance on the south side of Wilshire Boulevard. The two full entrances will be located at Wilshire Boulevard and Gayley Avenue, and at Wilshire and Westwood Boulevards. The half entrance will be located at Wilshire and Westwood Boulevards.

The Westwood/VA Hospital Station box will be under the VA south campus, beginning west of the I-405 Freeway and extending west of Bonsall Avenue. The station will be equipped with double crossovers, one at each end of the station. The station entrance will be south of Wilshire Boulevard and east of Bonsall Avenue.

#### **Major Procurements**

<u>Contract C1151 – Tunnels:</u> The procurement of this design/build contract utilized a competitive negotiated procurement process to select a contractor that was determined to have met all the requirements set forth in the Request for Proposals (RFP) with a technically acceptable, "Lowest Evaluated Price" selection process. In June 2018, the Board authorized to award the C1151 Tunnels contract, subject to the FTA approval of the Letter of No Prejudice (LONP). The contract was awarded to Frontier-Kemper/Tutor Perini, (FKTP-JV) on November 30, 2018, after receiving the LONP from the FTA. Notice to Proceed (NTP) was issued on January 15, 2019.

The design/build contract provides for final design and construction of the twin bored tunnels, complete with cross-passages, along the 2.56-mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. A tunnel boring machine (TBM) launch shaft will be constructed at the westerly end of the Westwood/VA Hospital Station. Upon substantial completion, FKTP-JV will turn over all temporary lighting and ventilation to the follow-on contractor (Contract C1152).

Contract C1152 – Stations, Trackwork, Systems and Systems Integration Testing: The procurement of this design/build contract utilized a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals on a Best Value selection process with an option at Metro's discretion for Best and Final Offers (BAFO). In February 2019, the Board authorized the CEO to award the C1152 Stations, Trackwork, Systems, and Systems Integration Testing contract to Tutor Perini/O&G, JV (TPOG), subject to the FTA approval of a Full Funding Grant Agreement (FFGA). After the February Board action, FTA issued an LONP on April 18, 2019, that allows contract award to occur prior to receipt of an FFGA. The Board approved award of the C1152 contract at the May 2019 Board Meeting, and the Contract was awarded on May 28, 2019. Notice to Proceed was issued on July 15, 2019, with a commencement date of July 16, 2019.

The Design/Build contract provides for final design and construction of the infrastructure along the 2.56-mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. The twin bored tunnels will be complete with walkways including all mechanical, electrical, and finished work. Two underground stations are to be constructed, with the Westwood/VA Hospital Station having two double crossovers, one at each end of the station. Each station will be equipped with stairs, escalators, and elevators which meet ADA requirements. The scope of work also includes all architectural finishes, mechanical and electrical systems and equipment including train control, traction power, communications, trackwork, system tie-in at the future Century City Constellation Station, testing and commissioning.

Contract C1153 – Advanced Utility Relocations: The work scope of this firm fixed price contract included the relocation of existing LADWP power and water utilities within the construction limits of the Westwood/UCLA Station. Metro issued Notice of Intent (NOI) to award to Steve Bubalo Construction Company (SBCC) on October 2, 2017, and NTP on January 2, 2018. SBCC was responsible for working in streets, procuring materials, and coordinating with the utility owner. SBCC constructed 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. SBCC achieved contract substantial completion on June 30, 2019, and Contract Final Acceptance was issued by Metro on April 13, 2020.

Contract C1204 - Shuttle and Valet Services During Construction of the Westwood/VA Station: The work scope for this firm fixed price contract includes providing shuttle and valet services to the West Los Angeles Veterans Affairs (VA) Medical Center during the decommission of Parking Lot 42 and buildout of the replacement parking structure. The Request for Proposal (RFP) was issued on January 15, 2021. Contract awarded to Everpark Inc. on December 6, 2021, and NTP issued with shuttle and valet service transferred to Everpark Inc. on January 03, 2022.

<u>Contract C1212 - VA Parking Structure:</u> The Invitation For Bid (IFB) documents for the VA Parking Structure were solicited on October 14, 2022. C1212 consists of a multi-story parking structure and parking lot work at the West Los Angeles Veterans Affairs (VA) Medical Center and parking lot work at the General Services Administration in West Los Angeles.

#### Metro Furnished Equipment

Metro to procure a contract to provide 16 Heavy Rail Vehicles (HRV) necessary to operate the extension of the Purple Line. The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. An additional contract will be procured for the Universal Fare System (UFS). The scope of the UFS contract will include design, fabrication, and installation of equipment at the two new stations and system testing.

#### **Program Management**

The Purple (D Line) Extension Transit Project Section 3 Project is being managed under the direction of an Integrated Project Management Office (IPMO). WSP Global (WSP) provides engineering and design support services, while MPPC Partners, a Joint Venture provides construction management support services. The on-site program management team is also supported by Metro headquarters' resources and includes, but not limited to, engineering, risk management, environmental, quality management, operations, and creative services departments.

<u>Project Schedule and Budget:</u> The Revenue Service Date (RSD) is planned for 2027. In June 2018, the Board authorized to establish the Life of Project (LOP) Budget for the Tunnels portion of the Project. In February 2019, the Board amended the LOP Budget to include the Stations portion of the Project. The LOP Budget for the Westside Purple Line Extension Section 3 Project is \$3.2 billion excluding Finance Charges of \$387.4 million. A detailed LOP Budget forecast is included under the Budget and Cost Forecast section of this report.

Funding is projected from a variety of sources to include:

- Federal Section 5309 New Starts
- Federal Section 5309 New Starts (ARPA-CIG)
- Federal STBG (Surface Transportation Block Grant)
- Federal CMAQ (Congestion Mitigation & Air Quality)
- Local Agency Contributions
- TCRP (Transit Cooperative Research Program)
- Measure R 35%
- Measure M 35%
- State RIP (Regional Improvement Program)

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

#### **EXECUTIVE SUMMARY**

In June 2023, the Project achieved 48.5% completion to-date based on earned value measurements for the overall Project. The current focus of the Project is production excavation of tunnel cross passages, continuing final design for Contract C1152 (Stations, Trackwork, Systems and Systems Integration Testing), utility relocations at Westwood/UCLA Station, and station excavation at the Westwood/UCLA and Westwood/VA stations.

The re-sequenced/coordinated schedule jointly proposed by both C1151 Tunnels and C1152 Stations Contractors has been approved resulting in time extensions for both C1151 Tunnels and C1152 Stations substantial completion dates. The current forecast Revenue Service Date will be towards the end of 2027.

The following is an overview of current design and construction activities.

#### **Design Status**

- The Engineering Management Services team continues to provide engineering services during construction, real estate support services, supporting Metro in reviewing the C1152 Stations final design submittals and the C1151 and C1152 review of submittals, responding to RFIs, and assisting in the preparation and review of Changes.
- C1151 Tunnels Contract: The design work for this contract is substantially complete. Metro has Approved for Construction all of the design unit packages.
- C1152 Stations Contract: The list of the various design unit (DU) packages is listed below:
  - DU 40: VA Station Temporary Works
    - APDU 41 (41A, 41B, 41D)
    - APDU 42
    - APDU 43 (43A)
    - APDU 44 (44A, 44B)
    - APDU 45
    - APDU 46
  - DU 50: UCLA Station Temporary Works
    - APDU 51 (51A, 51B, 51C)
    - APDU 52, 52A, 52B
    - APDU 53
    - APDU 54
    - APDU 55
  - DU 60: VA Station
    - APDU 61 (61A, 61B)
    - DU 60 (60, 60A, 60B)
  - DU 70: UCLA Station

- DU 70 (70, 70A, 70B, 70C, 70D)
- DU 81: Tunnels/Cross Passages and Track
- o DU 82: Systems
- DU 90: Tail Track Exit Shaft and Western VA Staging Area (APDU 90A/90B)

Final design for the various design packages is on-going. Design unit packages progress to date:

- o DUs 60, 70, 81, 82:
  - 100% design is on-going for DUs 70A, 70B
  - AFC design is on-going for DU 60B, 70, 70C, 70D, 81, 82
  - IFC is on-going for DU 60, 60A, APDU 61A/61B
- o DU 90:
  - IFC is on-going for APDU 90A, 90B
- o APDUs 41, 42, 43, 44, 45, 51, 52, 53, 54:
  - 100% design is on-going for APDUs 41A, 53
  - AFC design is on-going for APDUs 52A, 52B, 55 (Parts 1, 2, & 4)
  - IFC is on-going for APDUs 41D (LA County portion), 54 (Parts 2 & 4), 55 (Part 3)

#### Approved for Construction (AFC) design packages:

- o APDUs 41A, 41D (LA County portion)
- o APDU 54 (Part 2)
- APDU 61A/61B
- o DU 70D
- APDUs 90A, 90B

#### Issued for Construction (IFC) design packages:

- APDUs 41B, 42, 43, 44, 45, 46
- o APDUs 51A, 51B, 51C, 52, 54 (Part 3), 55 (Part 3)
- o APDU 90B IFC
- DU 60A IFC

#### DUs and APDUs submitted this reporting period:

- o APDU 41D
  - o DWPWS (CO-48.2 Barry-Federal) AFC
  - o 100pct Water Connection to VA Sta (LADWP-WS) LACDPW
- APDU 51B IFC Rev2 (CO-98)
- APDU 52A AFC OTS LABOE Response
- APDU 52B AFC OTS LABOE Response
- APDU 52
  - UCLA SOE AFC Rev 1 LABOE
  - AFC SOE at UCLA Sta Water Supports LADWP-WS
  - UCLA Sta SOE ECI-015
- o APDU 53 Part 8 (CO-79) UCLA Alt. Temp Restoration Attachment D OTS
- APDU 54 CB Lateral 1 Post Re-alignment CCTV

#### **Construction Status**

• C1153 – Advanced Utility Relocations: (Complete) Substantial completion occurred on June 30, 2019, and the contract is 100% complete. The City of Los Angeles' Bureau of Contract Administration signed-off on all punch list items on July 31, 2019. SBCC completed all punch list items and submitted 100% billing for all remaining items. SBCC submitted request for Certificate of Final Acceptance and release of retention on April 12, 2020, and Final Acceptance was issued by Metro on April 13, 2020. Metro has issued a contract modification to close the balance of provisional sums and final payment and the release of retention was processed to the contractor. Metro issued the final release of retention check and SBCC issued "Unconditional Waiver and Release on Final Payment" on July 16, 2020.

#### • C1151 – Tunnels Contract:

Tunnel cross passage work is ongoing. Ground treatment for cross passage CP55 from BR was completed and excavation is ongoing (50%). Ground improvement works for cross passage CP54 from BL was completed and excavation and initial lining is ongoing. Preparatory works for cross passage CP53 started. Removal of TBM operation related equipment within the tunnels is ongoing. (Update as of 6/30)

#### • C1152 – Stations Contract:

Final design continues and is about 97% complete. At the Westwood/UCLA station, station excavation is in progress and 26% complete. The progress for walers and struts at level 2 & 3 are at 20% for walers and 13% for struts. Work continues for stormwater line A3 underneath Wilshire Blvd. Geotechnical instrumentation installation is nearing completion. Hanging of utilities from road deck inside the station box is ongoing and approximately 66% complete. At the Westwood/VA station, excavation is approximately 31% complete. Walers and struts continue to be installed at excavation levels 1, 2, and 3; 34% of walers and 28% of struts have been installed at excavation levels 1, 2, and 3. Excavation and installation of lagging and struts are ongoing for level 1 at Bonsall West. At the station entrance, two levels of tiebacks and shotcrete have been installed. Hanging of utilities within/over the station box continues. Work inside the VA steam tunnel continued with the Mechanical, Electrical, and Plumbing systems remaining at 90% complete, and backfilling around the VA steam tunnel vaults is 95% complete. Installation of geotechnical instrumentation continues at both UCLA and VA stations.

#### Third Party Utility Relocations:

The LADWP power cutover to 10921 Wilshire Boulevard (Westwood Medical Center) is expected to be completed in Fall 2023.

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

Metro issued Contract Modification 2 to the C1151 Tunnels contractor for extending Substantial Completion by 95 calendar days, and in October 2022 Metro issued Contract Modification 23 that approved a time extension for 60 calendar days. The total time extension for C1151 Substantial Completion is 155 calendar days. Mitigation efforts are being evaluated to improve on the Substantial Completion date and minimize impact to the C1152 Stations contractor. It is anticipated that the forecast revenue service date can be achieved.

The Critical Path (CP) of the Project includes third party utility relocations, C1152 Contractor required utility relocations, followed by both stations' support of excavation, street decking, station structural box excavations, and structural concrete for the stations. Next it flows into installation of the interior finishes and electrical equipment, followed by systems, testing and pre-revenue operations. A summary graphic of the critical path is found on Page 17.

#### C1151 Tunnels

	Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
Notice to Proceed	01/15/19A	0	01/15/19A		0
Substantial Completion	11/15/22	155	04/19/23	05/15/25	757

#### C1152 Stations, Trackwork, Systems, and Testing

	Original Contract Dates	Time Extension	Current Contract	I FORECast I	
Notice to Proceed	7/16/19A	0	7/16/19A		0
Substantial Completion	06/08/26	0	6/08/26	11/16/26	161

Project costs continue to track within budget and projected contingency limits. The Current Budget and Current Forecast remain the same this period at \$3.6 billion. Detailed cost and budget information is provided on Page 19.

The following claims that are being evaluated:

- C1151 Tunnels
  - NOIC 05 STV's Notice of Intent to Claim pertaining to RFC 12.4 -3rd Party Delays
- C1152 Stations, Trackwork, Systems, and Testing
  - Claims 01 & 02 General Requirement Items (Insurance & Bond Cost)
  - o Claim 03 Reserve right for time extension under unilateral change orders
  - o NOIC 04 Delay impact due to utilities relocation at Wilshire & Gayley
  - o NOIC 05 VA grade separated pedestrian connection reconfiguration
  - o NOIC 06 RFC-019 Design cost regarding TTES reconfiguration
  - o NOIC 07 RFC-020 Design cost regarding TTES Vane Implementation
  - NOIC 08 RFC-011 Time impact on design management related to CO-001 thru CO-030
  - o NOIC 09 RFC-011 Additional time & compensation for CO-15.5
  - NOIC 10 RFC-025 Acoustic Criteria and Speech Intelligibility Criteria (Design)
  - NOIC 11 RFC-28 Added Cost to Remove & Dispose Unsuccessful Tree Relocation
  - NOIC 12 RFC-14 UCLA Station East UPE Grates (Design)

#### **Key Management Concerns**

Impacts to the C1152 contract work due to the slower than planned progress by the C1151 Tunnels contract.

# **Project Construction Photos**



Cross Passage CP-54 in BL Tunnel: Excavation at Top Heading



Installation of Level 2 Tiebacks & Shotcrete at the Westwood VA Station Entrance



Westwood/VA Station: Installation of Level 1 Struts Between GL22 & GL44, West of Bonsall



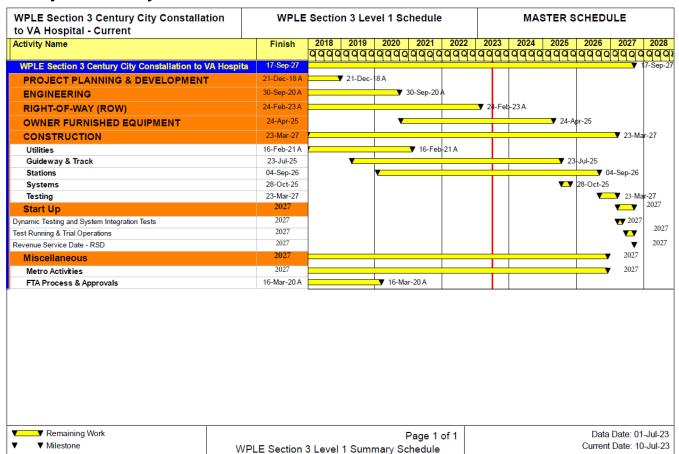
Westwood/UCLA Station: Station Box Excavation and Utility Supports

# **PROJECT UPDATE**

## **PROJECT SCHEDULE**

#### **Project Summary Schedule**

Summary

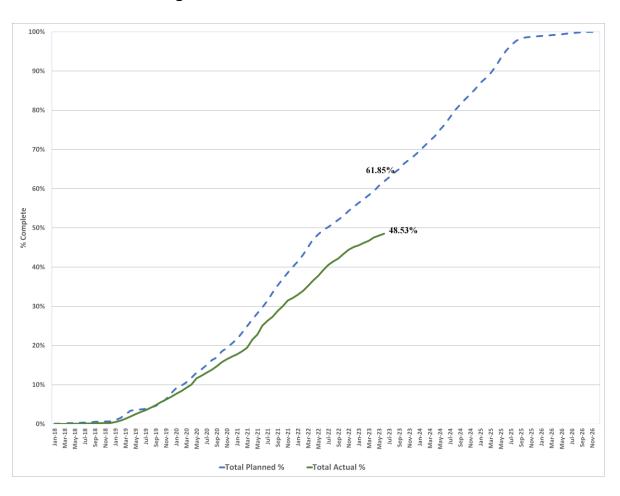


Los Angeles County Metropolitan Transportation

## **Progress Summary**

	Status	Change from Last Period	Comment
Forecast Revenue Service	2027		
FFGA Revenue Service	2028		FFGA was awarded in March 2020
Final Design Progress:			
Contract C1151	99%	0%	
Contract C1152	97%	0%	
Construction Contracts Progress:			
Contract C1151	93.1%	0.03%	
Contract C1152	26.9%	0.6%	
Contract C1153	100%	0%	Substantial Completion occurred on 6/30/19

# **Planned vs. Actual Progress**



# **Key Milestones Six-Month Look Ahead**

	Milestone Date	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
C1152 Submitted APDU 41D AFC, (DWPWS, Berry - Federal)	6/13/23A						
C1152 Submitted APDU 52 AFC, UCLA SOE	6/13/23A						
C1152 Issue APDU 61B IFC, Westwood VA Station N. Entrance & Ped Bridge	07/12/23						
C1152 Issue DU 82 IFC, System Design	07/13/23						
C1152 Issue APDU 41D IFC, LADWP Water Main	07/14/23						
C1152 Complete VA Steam Tunnel	07/21/23		$\bigcirc$				
C1152 Begin UCLA Level 3 Excavation	07/21/23						
C1152 Begin UCLA Level 4 Excavation	07/21/23						
C1152 Submit DU 70 AFC, UCLA Station	07/31/23						
C1152 Issue DU 60 IFC, VA Station	08/18/23						
C1152 Complete All Final Design Packages	08/28/23			$\bigcirc$			
C1152 Complete VA Level 4 Excavation (East Sequence)	09/15/23						
C1152 Begin VA Level 5 Excavation (East Sequence)	09/18/23						
C1152 Begins Rail / Track Procurement	10/02/23						
C1152 Begin UCLA Level 5 Excavation	11/01/23						
♦ MTA Staff MTA Board Action FTA (Federal Transit Administration)	Other Agencies	Cont	tractor (	D/B Con	tractor		

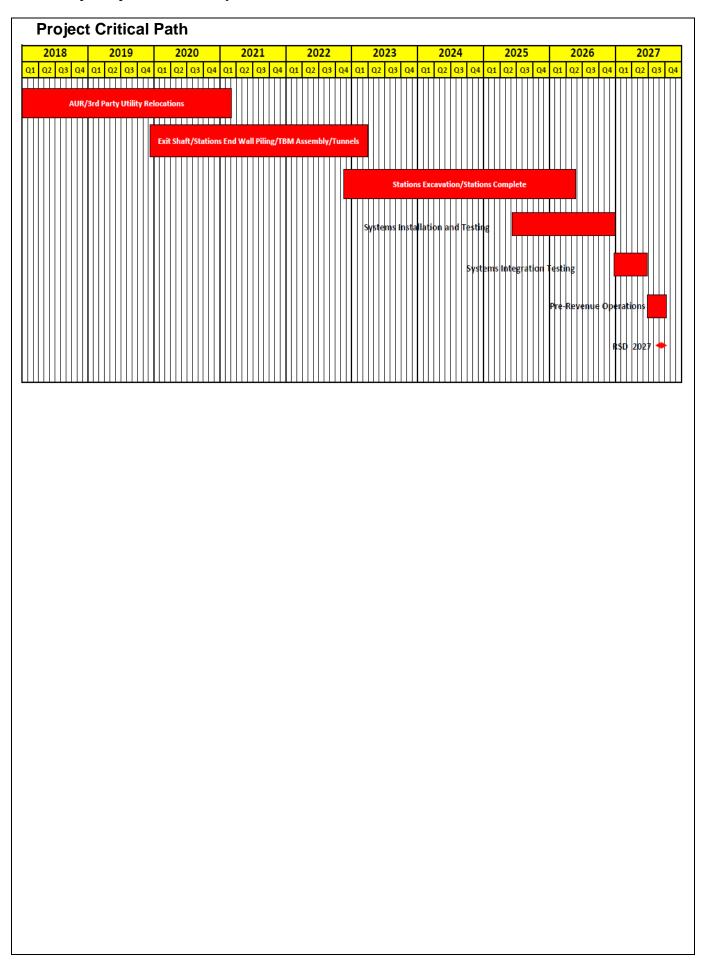
# **Major Equipment Delivery**

	Submittal	Procurement	Delivery	Installation	
C1152 Design/Build (Stations)*					
Emergency Ventilation Fans	10/06/23	10/09/23	06/14/24	09/09/24	
Station Elevators	12/13/23	12/14/23	12/06/24	07/25/25	
Station Escalators	04/05/24	04/08/24	04/01/25	07/25/25	
Track – Running Rail	09/29/23	10/02/23	01/25/24	11/06/24	
Traction Power Equipment	01/04/24	01/05/24	09/10/24	03/03/25	
Automatic Train Control	10/06/23	07/14/23	02/07/25	09/19/25	
SCADA RTU System	01/04/24	01/05/24	09/10/24	12/12/25	
Radio System	01/04/24	07/14/23	02/07/25	12/12/25	
Heavy Rail Vehicles***	Proposal Received 04/17/23 and under review				
Universal Fare System**	TBD	TBD	TBD	2027	

<sup>\*</sup>Dates derived from TPOG's May 2023 Schedule Update.

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

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

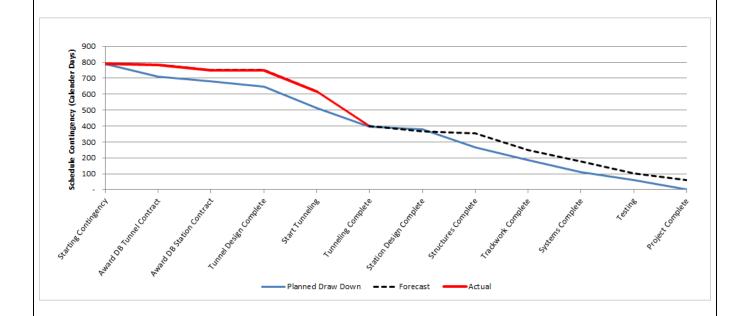


# **Project Schedule Contingency Drawdown Analysis**

The project schedule contingency drawdown model provides a dual-axis perspective based upon the FFGA RSD of December 2028 and Metro's Project Master Schedule (PMS) forecast of 2027.

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

With regards to the FFGA RSD, schedule float is currently Thirteen (13) months with respect to the current forecast project completion.



#### PROJECT COST

#### **Project Cost Analysis**

SCC CODE	DESCRIPTION	ORIGINAL BUDGET	CURR	ENT BUDGET	COMMITMENTS					RENT CAST	CURRENT BUDGET/ FORECAST	
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE	
10	GUIDEWAYS & TRACK ELEMENTS	490,712	7,400	455,671	0	419,181	944	284,124	7,400	455,671	0	
20	STATIONS, STOPS, TERMINALS, INTERMODAL	624,995	-77,650	639,987	0	595,879	5,762	184,551	-103,469	639,987	0	
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN, BLDGS	0	0	0	0	0	0	0	0	0	0	
40	SITEWORK & SPECIAL CONDITIONS	497,805	184,281	943,289	5,199	691,731	9,500	498,031	184,281	943,289	0	
50	SYSTEMS	130,778	0	81,835	62	57,329	1,343	1,569	0	81,835	0	
	CONSTRUCTION SUBTOTAL (10-50)	1,744,291	114,031	2,120,782	5,261	1,764,121	17,550	968,274	88,212	2,120,782	0	
60	ROW, LAND, EXISTING IMPROVEMENTS	467,874	-161,057	255,000	100	78,891	2,073	79,415	-165,057	255,000	0	
70	VEHICLES	38,092	0	43,806	0	0	0	0	0	43,806	0	
80	PROFESSIONAL SERVICES	508,093	80,924	614,075	1,744	357,952	7,344	318,631	72,456	614,075	0	
	SUBTOTAL (10-80)	2,758,350	33,899	3,033,663	7,105	2,200,964	26,968	1,366,321	-4,389	3,033,663	0	
90	UNALLOCATED CONTINGENCY	464,142	19,101	242,085	0	0	0	0	4,389	242,085	0	
100	FINANCE CHARGES	387,375	0	387,375	0	3,739	0	3,739	0	387,375	0	
	TOTAL PROJECTS 865523 (FFGA & Non-FFGA)	3,609,867	53,000	3,663,123	7,105	2,204,703	26,968	1,370,060	0	3,663,123	0	
	ENVIRONMENTAL/PLANNING - 465523	1,131	0	875	0	875	0	875	0	875	0	
	TOTAL PROJECTS 465523 (ENV/PLAN'G)	1,131	0	875	0	875	0	875	0	875	0	
	TOTAL PROJECTS 465523 & 865523	3,610,998	53,000	3,663,998	7,105	2,205,578	26,968	1,370,935	0	3,663,998	0	

#### **Original Budget**

Original Budget of \$3.6 billion reflects the Life of Project (LOP) budget approved by the Board on February 28, 2019, plus Finance Charges of \$387.4 million.

#### **Current Budget**

In June 2023, the Board amended the LOP Budget by +\$53 million resulting in an increase in the Current Budget to \$3.7 billion. The Current Budget also includes an annual Project budget change for cost elements and line items in accordance with the Program Management Department Policies and Procedures, PC02 Project Budget. The ROW budget was decreased by \$161M to reflect the latest forecast. The reduction from ROW budget was used to offset increases in Construction, Professional Services, and Unallocated Contingency budgets. The net increase of \$114M in Construction is primarily for the award of VA Parking Structure Contract C1212 and increase in C1151 Tunnels contingency for the remaining work. The Professional Services category increased by \$80.9M to reflect the latest forecast for Engineering Management Support Services, Construction Management Support Services, C1152 Stations Design changes. Unallocated Contingency budget increase of \$19M is attributed to ROW budget decrease and LOP budget amendment.

#### **Current Forecast**

The Current Forecast remains the same this period at \$3.7 billion. The adjustment of the Current Forecast is the reconciliation with the annual budget adjustment. Therefore, the Current Forecast is now in sync with the Current Budget at the start of FY24.

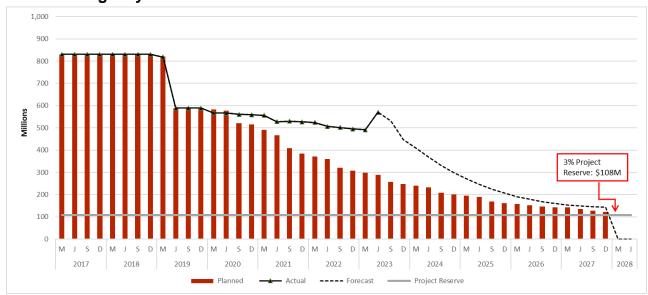
#### Commitments

The Commitments increased by \$7.1 million primarily due to Change Orders for Stations Contract C1152 and Contract Modifications for Stations Contract C1152, Systems Engineering Support, Project Management Support Services, Environmental Support Services, and Quality Assurance Support Services. The \$2.2 billion in Commitments to date represent 60.2% of the Current Budget.

#### **Expenditures**

The Expenditures increased by \$27.0 million primarily due to costs associated with the Tunnels Contract C1151, Stations Contract C1152, VA Shuttle and Valet Services Contract 1204, Metro Project Administration, Engineering Management Support Services, Construction Management Support Services, Project Management Support Services, Environmental Support Services, Quality Assurance Support Services, Legal Services, ROW Agreement, appraisal and acquisition fees, Engineering Design Services, and Third Party Master Cooperative Agreements. The \$1.4 billion in Expenditures to date represent 37.4% of the Current Budget.

#### **Cost Contingency Drawdown**



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

The Original Budget of \$3.6 billion includes finance charges of \$387.4 million. It also includes a project cost contingency of \$830.6 million or 23.1% of the total project, which is based on the amended Life of Project (LOP) Budget approved by the Board in February 2019. An allocated contingency amount of \$366.5 million is included in the total cost contingency. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro [when applicable to specific contracts within each Standard Cost Category (SCC)].

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

The project cost contingency drawdown curve is based on a 2027 Forecast Revenue Service Date (RSD).

The allocated contingency increased this period by \$79.4 million due to forecast adjustment, approved Contract Change Orders and executed Contract Modifications for Stations Contract C1152.

Previous	Current		Remaining
Previous	Current		Remaining
- I Period	Period	To-Date	Contingency (Forecast)
142 (241,15)	9) 19,101	(222,058)	242,085
455 (98,71)	3) 60,332	(38,381)	328,074
597 (339,87)	79,433	(260,438)	570,159
•	•		
	) 142 (241,15) 455 (98,71)	) 142 (241,159) 19,101 455 (98,713) 60,332	) 142 (241,159) 19,101 (222,058) 455 (98,713) 60,332 (38,381)

# **Risk Management**

#### **Summary of Risks**

During the quarterly risk register meeting, no new risk was identified, eight (8) risks were closed, resulting in a total of sixty-three (63) risks to be managed in the next quarter.

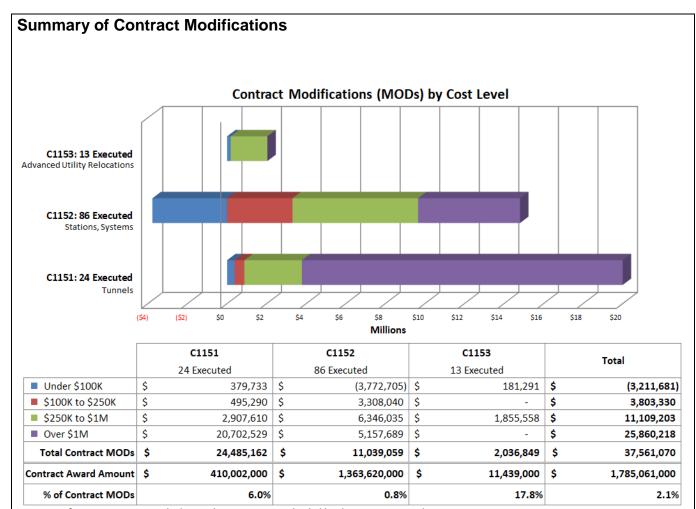
Of the sixty-three (63) risks, nine (9) are scored as high, thirty (30) as medium, and twenty-four (24) as low.

The next Purple (D Line) Extension Transit Project Section 3 Risk Register quarterly update is scheduled for September 2023.

#### Top Risks

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

Risk ID	Risk Description	Risk Score	Action Items
10.001	Cross passage work coordination between 2 contractors - C1151 & C1152	22.5	C1152 to re-evaluate and re-sequencing the schedule to interface with C1151 cross passage construction.     Metro issued direction to proceed with the re-sequencing schedule. Pending negotiation with the contractor on final agreement.
653.30	Delay of contract turnover from tunnels to stations.	22.5	1. Review schedule interface between tunnels and stations contracts. 2. Setup regular collaboration meeting. 3. Monitor the tunneling and station excavation progress and seek opportunities for schedule recovery. 4. Review the contractor's cost and schedule from C1151 for the resequencing 5. C1152 Contractor to submit an integrated schedule with C1151 Tunnel Contractor. 6. Metro issued direction to proceed with the re-sequencing schedule. Pending negotiation with the contractor on final agreement.
90.4	Covid 19 pandemic impact	20.0	1. RFCs under review by Metro.
383.4	Temporary power supply from SCE /LADWP may not be available for Station Contract	17.5	Setup regular meeting with SCE/LADWP to monitor their progress.     Temporary power availability delay can be mitigated by using generators.     LADWP temp power is required for dewatering as well as ventilation. Risk can be mitigated by use of a large number of generators. However, delays could be incurred if there are O&M issues with generators, and excavation work can get delayed in absence of power connection to station.
PLE3-116	Potential impact to Metro project if C1151 extract TBM from Constellation	15.0	FKTP to provide plan and schedule for Metro approval, and the proposed plan shall include concurrence from C1120 & C1152. (On going)     Metro to check environmental compliance, logistic and permit requirements. Also need stakeholder buy-in. (On going)     Environmental work is complete and received buy-in from stake holders.



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

Twenty-four Contract Modifications (MODS) with a total value of \$24.5 million have been executed since the award of C1151 Contract for Tunnels.

Eighty-six Contract Modifications (MODS) with a total value of \$11.0 million have been executed since the award of C1152 Contract for Stations.

Thirteen Contract Modifications (MODS) with a total value of \$2.0 million have been executed since the award of C1153 Contract for Advanced Utility Relocations.

# **DISADVANTAGED BUSINESS ENTERPRISE (DBE)**

#### **Contract C1151**

As of May 2023:

DBE Goal – Design The percentage of funds apportioned to Design Contracts	11.19%
Current DBE Commitment Design Total DBE Committed Dollars divided by Total Contract Value for Design	\$3.17M 17.22%
Current DBE Participation  Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$3.19M 18.10%

Six (6) Design DBE sub-consultants have been identified for Design.

DBE Goal – Construction The percentage of funds apportioned to Construction Contracts	17.10%
Current DBE Commitment Construction Contract commitment divided by current contract value for Construction	\$87.76M 22.10%
Current DBE Participation  Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$79.98M 21.76%

Seventy-Eight (78) Construction DBE sub-contractors have been identified to date.

#### **Contract C1152**

As of May 2023:

DBE Goal – Design The percentage of funds apportioned to Design Contracts	19.25%
Current DBE Commitment Design Total DBE Committed Dollars divided by Total Contract Value for Design	\$15.82M 17.98%
Current DBE Participation  Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$14.28M 17.20%

Nineteen (19) Design DBE subcontractors have been identified for Design.

DBE Goal – Construction The percentage of funds apportioned to Construction Contracts	21.00%
Current DBE Commitment Construction  Contract commitment divided by current contract value for Construction	\$56.93M 4.60%
Current DBE Participation  Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$34.47M 6.87%

Twenty-two (22) Construction DBE sub-contractors have been identified to date.

# **PROJECT LABOR AGREEMENTS**

As of May 2023

#### **Contract C1151**

Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Area of Los Angeles County	40.00%
Targeted Worker Current Attainment	42.90%
Apprentice Worker Goal	
Construction work to be performed by Apprentices	20.00%
Apprentice Worker Current Attainment	16.02%
Disadvantaged Worker Goal	
Construction work to be performed by Disadvantaged Workers	10.00%
Disadvantaged Worker Current Attainment	10.22%

#### **Contract C1152**

Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Area of Los Angeles County	40.00%
Targeted Worker Current Attainment	61.07%
Apprentice Worker Goal	
Construction work to be performed by Apprentices	20.00%
Apprentice Worker Current Attainment	13.21%
Disadvantaged Worker Goal	
Construction work to be performed by Disadvantaged Workers	10.00%
Disadvantaged Worker Current Attainment	11.13%

# **Contract C1153**

Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Areas in the United States	40.00%
Targeted Worker Current Attainment (Final)	47.64%
Apprentice Worker Goal Construction work to be performed by Apprentices	20.00%
Construction work to be penormed by Apprentices	20.00%
Apprentice Worker Current Attainment (Final)	21.18%
Disadvantaged Worker Goal	
Construction work to be performed by Disadvantaged workers	10.00%
Disadvantaged Worker Current Attainment (Final)	12.07%

# FINANCIAL/GRANT

## Status of Funds by Source\*

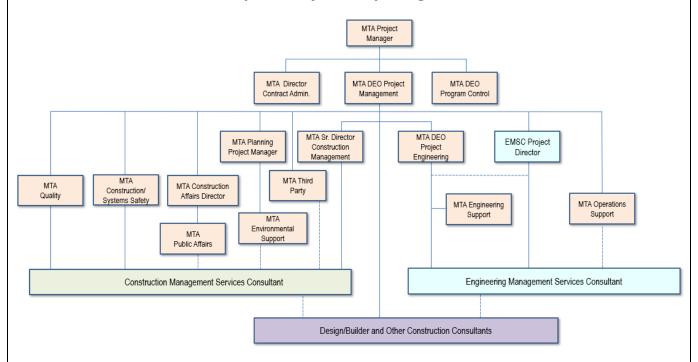
SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMITN \$	(D/B) MENTS %	(E) EXPEND \$	(E/B) ITURES %	(F) BILLED TO FUN SOURCE \$	
		7411011 71125	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•	,,,		,,,
FEDERAL - SECTION 5309 NEW STARTS	\$1,300.000	\$1,300.000	\$571.984	\$483.358	37%	\$483.353	37%	\$483.291	37%
FEDERAL - SECTION 5309 NEW STARTS (ARPA-CIG**)	\$0.000	\$93.438	\$93.438	\$93.438	100%	\$93.438	100%	\$93.438	100%
FEDERAL STBG	\$93.048	\$93.048	\$70.000	\$39.452	42%	\$28.490	31%	\$1.469	2%
FEDERAL CMAQ	\$45.000	\$45.000	\$45.000	\$45.000	100%	\$45.000	100%	\$45.000	100%
LOCAL AGENCY	\$96.391	\$96.391	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TCRP	\$10.001	\$10.001	\$10.001	\$10.001	100%	\$10.001	100%	\$10.001	100%
MEASURE R 35%	\$844.063	\$803.625	\$499.654	\$500.964	62%	\$31.936	4%	\$30.352	4%
MEASURE M 35%	\$1,190.661	\$1,190.661	\$689.591	\$1,033.365	87%	\$678.717	57%	\$678.493	57%
STATE RIP	\$31.834	\$31.834	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$3,610.998	\$3,663.998	\$1,979.668	\$2,205.578	60.2%	\$1,370.935	37.4%	\$1,342.044	36.6%

Original Budget based on 2019 Board approved LOP Budget, plus Finance Charges of \$387.4 million.

#### PROJECT ORGANIZATION AND STAFFING

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

# Metro Purple (D Line) Extension Transit Project Section 3 Responsibility and Reporting Matrix



The overall FY23 Total Project Staffing Plan averages 102.90 FTEs per month.

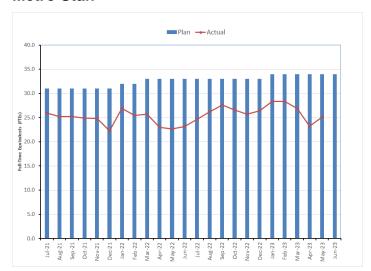
For May 2023, there were a total of 25.2 FTEs for MTA's Project Administration Staff and 55.0\* FTEs for Consulting Staff. The total project staffing for May 2023 was 80.2 FTEs.

#### Total Project Staffing - Metro and Consultants



\*Actuals include 4.7 FTEs related to Project Management Support Services (PMSS).

#### **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.

# **REAL ESTATE**

Real Estate Status Summary of all Rights											
# Donorodles	D	Description	Number of Project Parcels	Certified	Appraisals	Offers	Agreements Signed	Condemnation Filed	Relocations		Parcels
# Properties	Properties			Certified	Completed	Made			Required	Completed	Available
	Westfield Mall (2)	SSE	2	2	1	1	0	1	0	0	1
	Westileid Mail (2)	TCE	1	1							_ '
		SSE	1	1		1					
	WW Med	SE	1	1	1		0	1	2	0	0
		TCE	1	1							
		SSE	1	1						0	
	10900	SE	1	1	1	1	0	0	1		0
		TCE	1	1							
	UCLA	PE (SE & SSE)	1	1	0	0	0	0	0	0	1
		SSE	1	1							
		SE	1	1							
85		TCE	1	1							
	GSA	SSE	1	1	1	1	1	0	0	0	1
		PE (SE & SSE)	1	1	1	1	1	0	0	0	1
	VA	SSE	1	1							
	VA	SE	1	1							
		TCE	1	1							
	SSE Only (75)	SSE	75	75	75	75	26	62	0	0	75
F	Public street (2)	SSE (CPU code)	2	2	N/A	N/A	N/A	N/A	N/A	N/A	2
	Caltrans	JUA (handled by Thirdy Party)	1	1	N/A	N/A	1	0	0	0	1
85		Total	96	96	80	80	29	64	3	0	82

#### **QUALITY ASSURANCE**

- Attended weekly project staff meetings for C1151 Tunnels, C1152 Stations, and FKTP & TPOG weekly progress meetings.
- Held QA/QC meetings with C1151 FKTP and C1152 TPOG Quality Teams.
- Attended QA/QC Priority Meeting for both C1151 and C1152 construction and process Assessments.
- Oversight Metro Management Audit exit meeting held on C1151 FKTP Construction Quality Program.
- Pre-meeting with Metro auditors on C1152 Station Contract TPOG Management System Audit.
- Coordinate with N & M / Metro ITL to schedule special testing on C1151 soil testing, cross passage shotcrete and grout tests, and C1152 tiebacks shotcrete tests. Reviewed construction materials test reports, special inspection reports (N & M) and Metro Oversight Inspectors' Daily Reports.
- Provided review comments on C1151 and C1152 submittals and RFIs.
- Attended Readiness Review Meeting of C1151 C-channels installation above the TBMs at the interface with Constellation Station West End Wall
- Conducted <u>new assessment</u> and issued subsequent conforming or non-conforming items for following:
  - C1151 (Tunnels Contract)
    - SEM Cross Passage Shotcrete Mix Design shall be approved by EOR prior to using on site per Specs 03 37 13-1.04.C.2.a
    - Environmental Assessment on GR-01 74 19 Waste Management
  - > C1152 (Stations Contract)
    - UCLA Station deck mat roadway Westbound Wilshire Westwood to Veterans uneven damaged, gaps, and not secured
    - VA Station\SOE Fontana Yard Shop Fabrication / Welding Struts and Wales (Bracing, struct) (Field Assessment)
    - UCLA Utility Line 503 Transverse Bracing missing, utility line hanging of 14inch HDPE sanitary sewer line (COLA 503) at GL19-20
    - UCLA SOE Utility Line 210 Transverse bracing is not installed (Max. Spacing 12 LF) per APDU IFC Drawing USCUT-402 and UDBUT-501-505 on DWPPS 24"x18" electrical duct bank (210) @ GL-19.5-19.0
    - UCLA and VA Stations welding inspection oversight at the Tutor Perini Fontana Yard. Welding inspection oversight consisted of verification of fit-up of strut splices and/or slotted plates, strut end plates, jacking ear
    - UCLA Station SOE Shop Fabrication Welding (Bracing, struct) Field Assessment at TPOG Fontana Yard
    - VA Station\SOE Welding (Bracing, struct) Shop Fabrication (Field Assessment)
    - UCLA Station SOE mass excavation in gut trench from grid line 15-17 along the north wall TPOG removed bench and cut verticals from north piles from elevation 300.0 to elevation 275.0 piles 61-65 north wall. The gut trench has approached the north wall
    - VA Station Steam Tunnel Vault 400 Roof Concrete Pre-Pour and Pour Jobsite Field Assessment

- UCLA SOE Utility Line 505, 18-inch HDPE sewer line COLA, unsupported utility no transverse bracing placed from GL-19 to 15
- UCLA Station SOE The baseline and production readings of inclinometers along the north side of Wilshire/Westwood Medical Center (10901 & 10921 Wilshire Blvd.) are missing or late performance to meet Specs 31 09 13-3.05.C.2 requirements
- VA Station SOE Voids behind lagging north and south walls during excavation and lagging placement
- Environmental Assessment on 01 35 63 Sustainability Plan
- Environmental Assessment on 01 71 43 Permits, Licenses, and Agreements
- Conducted <u>on-going monthly assessment</u> and issued subsequent conforming or nonconforming items for following:
  - C1151(Tunnels Contract)
    - Cross Passage Construction SEM Excavation/Grout/Shotcrete/ Dewatering
    - Environmental Assessment on GR-01 74 19 Waste Management
  - C1152 (Stations Contract)
    - VA Station and UCLA Station SOE Shop Welding (Struts, Walers, bracing fabrication) at TPOG Fontana Yard
    - VA and UCLA Station on site SOE Excavation / Lagging Installation / Struts & Walers Field Welding / Jacking and Strain Gauge Installation / Utility Support & hanging.
    - VA and UCLA Stations Geotechnical Instrumentation Installation and Baseline Reading
    - VA Station SOE tiebacks installation and shotcrete application
    - Environmental Assessments on 01 35 63 Sustainability Plan and 01 71 43 Permits, Licenses, and Agreements

#### **ENVIRONMENTAL**

- Conducted field environmental monitoring and inspections for environmental compliance and VA/UCLA MOA's for FKTP and TPOG.
- Paleontological monitoring at Westwood/UCLA and Westwood/VA Stations during excavations.
- Participated in discussion with TPOG on construction dewatering systems.
- Completed coordination with FTA and GSA on supplemental historical review for upcoming work at GSA.
- Attended discussion for station noise analysis.

#### CONSTRUCTION AND COMMUNITY RELATIONS

- Attended the following meetings: Construction Management meetings for the Tunnels and Stations contracts, Section 2 and 3 Coordination, LADOT, VA Coordination, LABOE, Tishman Speyer coordination, UCLA, Westwood Medical Plaza coordination, and Westwood Building Managers.
- Produced and distributed 62 construction work notices for Westwood/UCLA work activities, Westwood/VA work activities, and tunnel work activities.
- Continued coordination with major stakeholder groups including LA Council Districts 5 and 11, Department of Veterans Affairs, County of Los Angeles, UCLA, Westwood Village, Century City Building Managers.
- Updated Facebook/Twitter and Metro.net as needed.

#### **CREATIVE SERVICES**

- Final artwork designs provided to the C1152 contractor for procurement of porcelain enamel steel and glass artwork fabrication.
- Continued management of artist design development for integrated station artworks.
- Continued assessment of Project operating impacts to signage between sections and systemwide.
- Continued coordination with arts and cultural stakeholders.

#### **SAFETY AND SECURITY**

#### Contract C1151 Tunnels

- Metro Project Safety staff attended weekly Toolbox Meetings, Progress Meetings, readiness reviews, and other project meetings to evaluate Contractor's Safety Program compliance with contract requirements.
- Metro / FKTP-JV project safety staff conducted schedule, safety / security and over-theshoulder review meetings.
- Metro Project 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.
- Metro Project Safety staff conducted project Safety Orientation, SCSR and H2S Safety Training for new Metro / Consultants and IPMO project staff.
- Metro Project Safety staff conducted right-of-way (ROW) and safety/security walks, safety/security reviews, and coordination with FKTP-JV staff for oversight and support of all project field work activities.
- Metro Project Safety hosted the June Monthly Safety and Security Meeting for Section 3 Westside-Purple Line Extension Contractors on June 23, 2023.
- FKTP-JV reported Zero (0) Recordable Injury in June 2023.
- FKTP-JV reported 28,634 actual work hours through June 2023.
- FKTP-JV Project to Date through June 2023, Contractor FKTP-JV Work Hours are 1,474,635.
- FKTP-JV Project to Date, there are Twenty (20) Recordable Injuries and Five (5) Days Away from Work Injuries. The Recordable Injury Rate of 2.71. The Bureau of Labor Statistics reports the National Average Recordable Injury Rate is 2.4.

Contract C1152 Stations, Trackwork, Systems, and Testing

- Metro Project Safety staff attended weekly Toolbox Meetings, Progress Meetings, readiness reviews, and other project meetings to evaluate Contractor's Safety Program compliance with contract requirements.
- Metro/(TPOG-JV) project safety staff conducted schedule, safety/security, and over-theshoulder review meetings.
- Metro Project Safety staff conducted project Safety Orientation, SCSR and H2S Safety Training for new Metro/Consultants and IPMO project staff.
- Metro Project Safety hosted the June Monthly Safety and Security Meeting for Section 3 Westside-Purple Line Extension Contractors on June 23, 2023.
- Metro Project Safety staff conducted project Safety Orientation for new Metro/Consultants and IPMO project staff.
- Metro Project Safety conducted right-of-way (ROW) and safety/security walks, safety/security reviews, and coordination with TPOG-JV staff for oversight and support of all project field work activities.
- TPOG-JV reported Zero (0) Recordable Injuries in June 2023.
- TPOG-JV reported 32,205 actual work hours through June 2023.
- TPOG-JV Project to Date through June 2023 Contractor TPOG-JV Work Hours is 1,254,998.
- TPOG-JV Project to Date, there are Zero (0) Recordable Injuries and Zero (0) Days Away from Work Injuries. The Recordable Injury Rate of 0.0. The Bureau of Labor Statistics reports the National Average Recordable Injury Rate is 2.4.

# APPENDIX

#### CHRONOLOGY OF EVENTS

January 2011 FTA approval to enter Preliminary Engineering

August 2012 FTA Record of Decision

April 2017 Issued RFQ for C1151 Tunnels Design/Build Contract

May 2017 Issued IFB for C1153 AUR Contract

September 2017 Issued RFQ for C1152 Stations, Trackwork, Systems & Testing

Design/Build Contract

January 2018 Issued NTP for C1153 AUR Contract

April 2018 C1153 Contractor commenced work

August 2018 FTA approval to enter New Starts Engineering Phase

September 2018 Received FTA approval for Letter of No Prejudice for C1151 Tunnels

Contract

November 2018 Issued Contract Award for C1151 Tunnels Contract

December 2018 FTA completed environmental review of 23 CFR §771.130 (c)

January 2019 Issued NTP for C1151 Tunnels Contract

April 2019 Received FTA's Letter of No Prejudice for C1152 Stations Contract

May 2019 Issued Contract Award for C1152 Stations Contract

June 2019 C1153 AUR Contract achieved Substantial Completion

July 2019 Issued NTP for C1152 Stations Contract

September 2019 FKTP began SCE Ductbank Construction

December 2019 Partial VA Site Access Given for Tree Removal

January 2020 Access to Tail Track Exit Shaft & Western Staging Area

February 2020 UCLA Lot 36 Access Given to TPOG

March 2020 FTA Executed FFGA

# Purple (D Line) Extension Transit Project Section 3 Quarterly Project Status Report

June 2020	FKTP Completed SCE Ductbank Construction
July 2020	Began TBM Assembly in the Tail Track Exit Shaft
October 2020	TBM #1 Began Initial Tunnel Operations on October 23, 2020
November 2020	Access to VA Campus Lot 42
December 2020	Installation of Starter Gantry for TBM #1 (BR)
January 2021	TBM #1 (BR) Bore the first 415 feet. Permeation Grouting at Sepulveda started
February 2021	Removal of Starter Gantry for TBM #1 (BR)
March 2021	Installation of Starter Gantry and Cradle for TBM #2 (BL). Start Utilities Relocation in VA. Westwood/VA Station SOE pile installation started.
April 2021	Commission TBM #2 (BL) Starter Gentry & Start Boring. SOE Piling at VA started
May 2021	Storm Drain and Sanitary Sewer in VA completed
June 2021	West Endwall at VA completed
July 2021	Removal of Starter Gantry for TBM #2 (BL)
August 2021	UCLA Station SOE Pile Installation Started (Install West to East). Westwood/VA SOE pile installation complete. TBM #1 (BR) resumed full-mode mining.
September 2021	East Endwall at Westwood/VA Hospital Station completed. Permeation grouting work underneath Sepulveda Blvd completed.
October 2021	Install Soldier Piles Wilshire North - Stage 1 East - Gayley to Westwood.
November 2021	TBM #1 (BR) completed continuous mining underneath I-405 freeway and 96" MWD feeder. TBM #2 (BL) resumed full-mode mining.
December 2021	Contract C1204 – Shuttle and Valet Services During Construction of the Westwood/VA Station awarded to Everpark Inc. and NTP issued.
January 2022	BL TBM and BR TBM completed mining through the Westwood/VA Station and proceeding to the Westwood/UCLA Station. VA steam tunnel relocation work initiated.
February 2022	Concrete placement for the Construction on VA steam tunnel concrete cradle initiated. BR TBM reached the Westwood/UCLA Station, and the BL TBM completed the I-405/Sepulveda crossing.

March 2022	Installation of reinforced concrete pipes for the VA Steam tunnel commenced and was completed in the month. TBM #2 (BL) reached Westwood/UCLA Station.
April 2022	First hyperbaric intervention for tool changes on TBM #2 (BL).
May 2022	TBM #1 (BR) completed 50% of the tunnel drive. TBMs successfully passed through the location of Westwood/UCLA station. Casting of C1151 tunnel linings 75% complete.
June 2022	TBM #2 (BL) completed 50% of the tunnel drive.
July 2022	Current phase of Westwood/UCLA SOE piles complete (87% of piles) - SOE to be completed following pile installation for entrances in 2024.
August 2022	Commenced installation of Westwood/UCLA station road decking at Wilshire Blvd. Construction at relocated Chase Bank at Westwood/UCLA completed. SCE power cut-over at Westwood/VA completed.
September 2022	Ground improvement at Westwood/UCLA completed. Commenced change-over of Westwood/VA Steam lines to new condensate & steam lines.
October 2022	Completed Change-over of Westwood/VA Steam lines to new condensate & steam lines. Commenced excavation of Westwood/VA Station. TBM #1 (BR) completed 75% of the tunnel drive. Invitation For Bid (IFB) documents issued for the VA Parking Structure - Contract C1212.
November 2022	Completed temporary road decking at Wilshire Blvd over the Westwood/UCLA station box location. Started excavation of Westwood/UCLA station. At Westwood/VA station started installation of the first level of struts/bracing. Manufacture of seismic steel tunnel linings completed.
December 2022	TBM #1 (BR) started installation of seismic steel tunnel linings. Casting of C1151 tunnel linings 100% complete.
January 2023	Westwood/UCLA Station excavation 13% complete. Westwood/VA station excavation 16% complete. Both TBMs, BR & BL, have advanced east of Santa Monica Boulevard.
February 2023	Westwood/UCLA Station excavation 16% complete. Westwood/VA station excavation 17% complete.
April 2023	Guideway tunneling 100% complete.
May 2023	Cross passage excavation started.