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FROM: ALBERT SOLIZ, 
DEPUTY EXECUTIVE OFFICER,
PROJECT MANAGER

SUBJECT: DIVISION 20 PORTAL WIDENING
QUARTERLY PROJECT STATUS REPORT
FY24 Q4, JUNE 2024

Enclosed herewith is the Quarterly Project Status Report for the Division 20 Portal Widening Turnback Project. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Division 20 Portal Widening Turnback Project status for the period ending June 30th, 2024.

If you have any questions regarding this report or its supporting information, please contact Alexander Lampros, Senior Director, Program Control at (213) 407-0978.

Enclosure

Division 20 Portal Widening Turnback Project

QUARTERLY PROJECT STATUS REPORT



June 2024

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PROJECT OVERVIEW

Project Background

Per the project's Full Funding Grant Agreement (FFGA) for Section 1 of the Westside Purple Line Extension (WPLE), Metro is obligated to operate service at four-minute headways on the future Metro Purple Line. As a result of reduced headways, Metro will need to coordinate headways for Purple and Red Lines in the shared trunk portion of the tunnel system from Wilshire Vermont Station through 7th and Metro and Union Station.

Currently, the Metro Red/Purple Line trains "turn-back" at Union Station, reversing direction from east to west. The current minimum headway that can be achieved at Union Station is approximately four-minute service for combined Purple/Redline service (or seven-and-a-half minutes on the branches), but that will become impracticable and less efficient once the Westside Purple Line Extension begins operating and more trains are using the same tracks.



At present, non-revenue Metro B (Red)/ D (Purple) Line trains proceed south of Union Station and through the portal just south of the US 101 Freeway before entering a complex set of switches in the Division 20 rail yard. To increase train speeds and ensure the reliability of operations, the existing tunnel portal must be widened to accommodate additional tracks and switches that diverge to become the turnback and yard leads.

The trackwork at the portal will be reconfigured to connect to new storage tracks to the south and west side of the yard. The reconfiguration of the yard will not preclude a potential future revenue station at 6th Street. Construction and pre-revenue testing of the portal widening and turnback facility must be completed before WPLE Section 1 opens for revenue service.

EXECUTIVE SUMMARY

Metro awarded the Division 20 Portal Widening Turnback Facility Contract C1136 on February 25, 2020, and issued Notice to Proceed (NTP) on April 8th, 2020. Contract C1136 is a Design Bid-Build (DBB) contract with a 52-month forecast for construction.

Status through June 2024:

Division 20 Portal Widening Turnback Facility overall project progress is 74%. Project commitments and expenditures through June 2024 indicate that the current budget does not require increasing contract modification authority for the next reporting period.

The project's current substantial completion forecast is at the end of Winter 2025, in addition, the project schedule continues to be updated as the project team is working with the contractor to develop an updated schedule and in coordination with the completion of Westside Purple Line Extension Section 1 (PLE1). The project team continues to work with Tutor Perini to update the schedule, and to review mitigation opportunities in-order to improve the schedule and reduce impacts to the project budget.

Current Quarterly Accomplishments

Submittals

- Cutover Plans 2a reviewed and approved.
- Cutover Plan #8 was submitted for review.
- Procure Clean Agent Fire Suppression reviewed and approved.
- Union Station TCCB Room Submittal - Final Design reviewed and approved.

Viertel Site

- Install Comm Interface Cabinet #10 & 11 started and completed.
- Pull Fiber Optic Cables - Viertel/Portal completed.

Portal Area

Misc Utilities/Finishes - West Side:

- Install Lighting Poles - W Sec1
- Install Lighting Poles - W Sec2

East Cable Trench Ext at Sec 3/Seg 2 (after Stop YR):

- Demo Side of (E) Cable Trench- East
- Excav & Expose (E) Cable Trench- East
- Excavation for Lagging down to Bottom of (E) Cable Trench- East
- Drill Dowels & Bond into Slab/Wall/Deck- East
- Install Lagging down to Bottom of (E) Cable Trench- East
- Rebar Cable Trench Slab- East
- Form Cable Trench Slab- East
- Pour Cable Trench Slab- East
- Cure Cable Trench Slab- East

Current Quarterly Accomplishments – cont'd

Misc Utilities/Finishes - East Side:

- Excavate/Install/Backfill DB/MH CS46/32/50 for CS-13B from Wall to Portal Int Bungalow completed.

Early Backbone Fiber Optic:

- Cable Investigation completed.
- 25 Pair completed.

Portal Interlock Bungalow:

- Terminate Fire Suppression System at Portal Int Bungalow completed.
- Terminate HVAC System at Portal Int Bungalow completed.
- Set Portal Interlock Equipment at Portal Int Bungalow completed.
- Install UPS at Portal Int Bungalow completed.
- Install Transformer/Backup Generator at Portal Int Bungalow completed.

North Storage Yard

Lighting:

- Install Lighting Poles at North Yard - NY (YDS-B1: S11 to S16) started and completed.
- Install Lighting Poles at North Yard - NY (YDS-D4: S11 to S16) started and completed.
- Terminate at Lighting Poles/Panel North Yard - NY (YDS-B1: S11 to S16) started and completed.
- Terminate at Lighting Poles/Panel North Yard - NY (YDS-D4: S11 to S16) started and completed.
- Install Lighting Poles at North Yard - NY (YDS-B2: S17 to S20& TT) started and completed.

Communication (N211/311):

- Install Comm Interface Cabinet #1-5 - North Yard started and completed.

Bungalow C:

- Terminate Power at Bungalow C
- Pull FA Cables & Terminate FA Devices & LFAT at Bungalow C started and completed.
- LFAT New Bungalow C - Part 1 (WTP 2 Series) started and completed.

Fine Grade & Track Bed (including Surface under 1st Bridge):

- Install Track Flangeway Guard Bars - Storage Area/North Yard started and completed.
- F/R/P/C Curb & Gutter - Rd M - North Yard started and completed.
- Procure Material (including road J) started and completed.
- Surface/Street Marking & Painting at North Yard Track area started and completed.
- AC Base/Base/Paving Road M (across tracks) E-W at Track area started and completed.
- AC Base/Paving Road M (E of Yard) N-S started and completed.

Current Quarterly Accomplishments – cont'd

Cutover 7/MS 5 - New N Yard Tracks S13-20, Portion of S11, Comp MS # 5:

- Install Cables/Bond/Grounding at North Yard S11 & S18 CONNECTION TO CCP started and completed.
- Install Cables/Bond/Grounding at North Yard (YDS-D4: S11 to S16) started and completed.
- Install Cables/Bond/Grounding at North Yard (YDS-C4: S17 to S20) started and completed.
- Install Tracks at North Yard Area 4 (3rd Rails) started and completed.

New TPSS Site

Pulling TP/C/S/FO Cables:

- Install FA Devices at TPSS started and completed.
- Pull FA Cables & Terminate FA Devices & LFAT at TPSS started and completed.

South Storage Yard

- Pull YCS/TCC Cables at Bungalow B (Tower) started and completed.

North Ladder Tracks

- Pull TC/Power Cables from Bungalow B to Devices/Wayside
- Install Cables/Bond/Grounding at North Ladder Track (ST4, ST5, ST6,ST7, ST8,TO26,TO24) started and completed.
- Install Top Ballast North Ladder Track started and completed.
- Install Junction Boxes at North Ladder Track (ST4, ST5, ST6,ST7, ST8,TO26,TO24) started and completed.
- Install Signals at North Ladder Track (ST4, ST5, ST6,ST7, ST8,TO26,TO24) started and completed.

Mainline Tracks Area

- Set New Pocket Int Bungalow started and completed.

Shop Building Area to Road G & Yard Tower

- Pull FA Cable from Yard Tower to Bungalow B (thru DB) started and completed.
- Pull FA Cable from Yard Tower to TPSS Bungalow (Thru DB) started and completed.
- Pull FA Cable from Yard Tower to Bungalow C started and completed.

Activities Planned for the Next Quarter

- LFAT New Bungalow B- Part 1 & 2 (Cutover A)
- LFAT New Portal Int Bungalow
- System Integration Testing (North Ladder Track) (Cutover A)
- Generator Start Up and Testing (LFAT)
- TPS AC/DC Cable Termination Landing

Project Scope

The scope of work is composed of several major construction elements, each with its own subset of work components. The major elements are portal widening; First Street Bridge modification & seismic upgrade trackwork; power substation; system installation & integration and not precluding future 6th Street station.

Turnback Facility (3 pocket tracks)

- Mainline Trackwork and Special Trackwork Construction
- Signals and Communication Lines (CCTV, PA, Telephone, Radio, Fire Alarm) and New Duct banks
- Portal Widening (Shoring, Excavations, Soil testing and Soil Disposal)
- Modifications to 1st Street Bridge
- Two Storage Yards (North and South) with Cleaning Platforms
- Demolition of MOW 61A and Viertel's Buildings
- Center Street Improvements
- Surface Parking at Viertel's Tow Yard
- Utility Protection and Relocation
- Drainage
- Yard Perimeter (Retaining Walls, Fences, and gates)
- Access Roads
- TPSS Pads and Connections (Removal of Existing TPSS)
- Yard and Surface Parking Lighting
- Trackwork/Emergency walkway Modifications at East US Double Crossover
- Communications Conduits for Metro Center Project
- Yard Tower – Control Room Equipment
- System Integration Testing and Start-up

Adjacent Projects Coordination

- Early Demolition Contract
- TPSS Early Procurement Contractor (C1184)
- Pickle Works Building Demolition by City
- Early Construction of Duct banks
- Sixth Street Bridge
- Metro Center Street Project Construction
- Link US
- Purple Line Extension Section 1 – Rail Welding
- Eastside CTS Bus Bridge by Regional Connector
- Demolition of MOW Buildings B&C
- MOW 61A Equipment Relocation, Vacation and Abatement
- Shop Building Expansion
- Metro Rail Car Delivery Program
- Southern California Gas Co.

Project Facts

- Approximately 16 miles of duct banks installation
- Track installation of 28,217 feet of ballasted track and 4,294 feet of direct fixation tracks
- Approximately additional 6 acres added to the Division 20 yard
- Additional storage capacity of 120 train vehicles

Risk and Management Issues Management Issues

1. MOD No.20 (CN006) - *executed*

- Major design changes (e.g., track spacing)
- Work not completed from previous contracts (early utilities)
- Specs and criteria changes/updates
- Responses to bidders' questions
- Completed negotiations with Contractor

2. Long Lead Items

- Contract provisions for long lead items
- Identify Multiple Suppliers
- Weekly meetings with Nortrak
- Shortage of fiber optic cable

3. Modification of Construction Scope within the Yard during Construction

- Modifications to design should be avoided. However, if mitigation is required, timely design changes and review cycles to be implemented
- Alert contractor to upcoming changes to avoid rework and obtaining contractor input to help mitigate time delay caused by RFI process

4. Maintaining Train Operations during Construction

- Develop intricate staging plan with Metro Operations & Maintenance approval
- Allow for single tracking to the yard to expedite construction delivery
- Develop and maintain an O&M plan during construction & a Metro Ops staffing plan
- Close coordination with contractor

5. Install Conduits to Regional Connector to Bus Bridge Start. - *completed*

- Provide Access to Construction Crew for Installation of Communications Fiber, Overlapping with Regional Connector Activities
- Frequent coordination between both contractors
- Collaborate between Metro and both contractors, a solution for temporary connection

6. Completion of Design /Construction by DWP to Energize New TPSS

- Active and continuous coordination/bi-weekly meetings with DWP

7. Significant number of Contractor questions regarding the design

- Design inconsistencies noted between drawings and details causing contractor to submit multiple RFIs.

8. MOD No.151- *executed*

- Time Impact 3 Settlement for Schedule Impacts, Extension of Time Impacts, and associated costs related to, among other items, the 1st Street Bridge/1st Street Viaduct

9. MOD No.161.1- *executed*

- Resequenced schedule to achieve Substantial Completion by December 31, 2025

10. MOD No.162.1- *executed*

- Time Impact 4 Settlement for Schedule Impacts, Extension of Time Impacts, and associated costs related to, among other items, revised Contract Milestones

Construction Progress Photos

Portal West

Remove decommissioned cables from Headwall to Union Station and TC & C room



Pull train control cables into AL cable trough



Construction Progress Photos *cont'd*
Portal West
VDE static clearance testing



Test , cut, lug, & land 500 Kcmil contact rail jumpers on 3rd rail



Construction Progress Photos *cont'd*

Portal East

Pour & backfill duct bank CS-13B part 1



Construction Progress Photos *cont'd*

North Yard

Install, tag, test, & terminate track circuit wires in J-boxes



Adjust track switch machines



Construction Progress Photos *cont'd*

North Yard

Install cameras, PA speakers and Wi-Fi hotspots



Construction Progress Photos *cont'd*
South Yard

Export concrete rubble and native soil offsite



Excavate, install, form, pour light pole foundations and backfill lighting duct bank between
LPB 129 to LPB 145



Construction Progress Photos *cont'd*

South Yard – Ladder Track

Spray insulated material on rail and flangeway, apply membrane tape, holiday test, pave Road “K”, pave Road “G”, and pave longitudinal cart paths

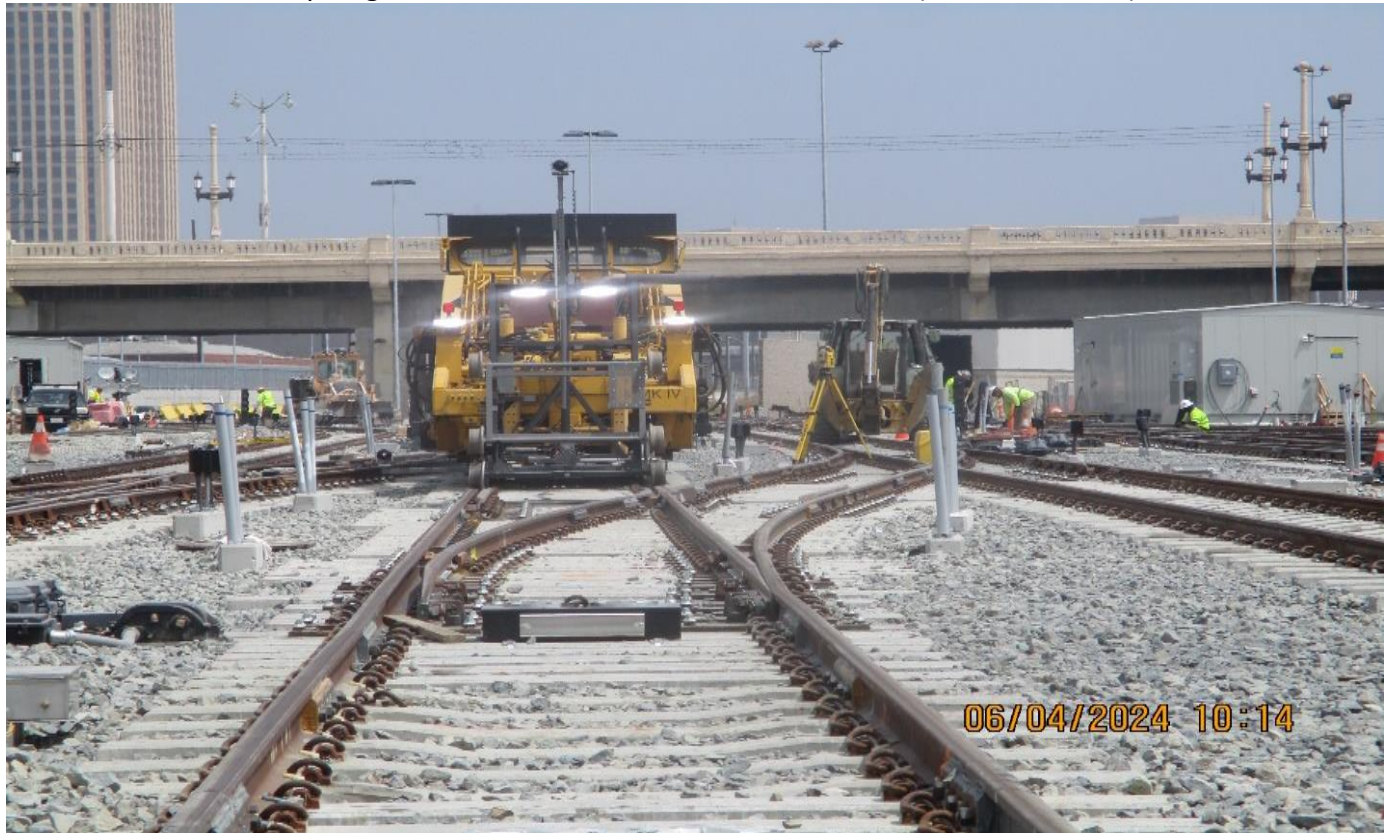


Adjust switch machines, install track circuit receiver/transmitter, install SPI boxes, pull train control cables to DJ/SW boxes, and pour light poles foundations.



Construction Progress Photos *cont'd*
South Yard – Ladder Track

Tamp, regulate, and distribute ballast ladder tracks (CW & RA tracks)



PROJECT STATUS

SAFETY

C1136 (TPC)

- Ongoing monitoring of construction activities to ensure safety compliance.
- TPC (contractor) reported 1,020,473 total man hours period ending June 2024 with 599 calendar days without a loss time incident.

C1184 (C3M)

- Participated in meetings, reviewed, and approved submittals, monitored construction activities.
- Conduct safety and security sweeps.
- C3M and their subcontractors continue to report zero incidents period ending March 2024.

PROJECT SCHEDULE

Project Summary Updates

The Notice to Proceed for the main construction contract was issued in April 2020. Construction submittal preparation started right after and is still in progress. Stage 1 construction started with field investigation throughout the Yard, utility relocation and power modifications leading to the start of selective track demolition, under the 1st Street Bridge, to allow the bridge modification work to start. Selective demolition began in October 2020, and was substantially complete in January 2023 with the successful removal of Bents 13 and 16. Bent 16 was removed in August 2022 followed by Bent 13 in January 2023.

Quarter 4, Fiscal Year 24 continues with Portal Widening work, track installation, train control Local Field Testing, ductbank and site utilities. West Portal civil construction completed new emergency walkways and crosswalks, light poles and continues with handrail installation in progress. At the Portal Widening East at East Union Station, punch-list in progress. Northern Storage Yard activities conclude with the installment of train control train control devices, associated equipment and wiring; poured CIC cabinet pad, installed insulated track joints, rail crossties, tracks, turnout, bumping posts, light pole installation, walking ballast and bungalow LFAT testing . The Traction Power Substation concludes with DWP energization, Power cable, equipment installation and currently powers carwash and Bungalow B. South Storage Yard construction continues with lighting ductbank excavation and installation, and site preparation for the installation of track underdrains, track installation of north ladder tracks, train control and third rail installation.

As of FY24 Q4, and in coordination with completion of Westside Purple Line Extension Section 1 (PLE1), the D20 Northern Yard will be accessible for Mainline Track by Spring 2025. The project team worked with the contractor to develop an updated schedule to resequence the current schedule and milestones to achieve substantial completion by December 31, 2025.

15-Jul-24 11:55

Division 20 QPSR Report

15-Jul-24 11:55

Division 20 Portal Widening Turnback Working Schedule (Rev w/ New MS)

15-Jul-24 11:55

Activity ID

Activity Name

Start

Finish

2024

2025

2026

Q1

Q2

Q3

Q4

Q1

Q2

Q3

Q4

Q1

Q2

Q3

16-May-16 A

30-Jun-26

08-Nov-23 A

31-Dec-25

08-Nov-23 A

31-Oct-24*

30-May-25

31-Dec-25

03-Jul-17 A

05-Dec-19 A

20-Jul-16 A

18-Apr-17 A

18-Apr-17 A

18-Sep-19 A

16-May-16 A

17-Jan-20 A

18-Sep-17 A

28-Jun-18 A

30-Mar-18 A

27-Oct-23 A

03-Apr-23 A

30-Mar-18 A

19-Feb-19 A

19-Feb-19 A

10-Jul-19 A

10-Jul-19 A

27-Oct-23 A

28-Dec-18 A

08-Apr-20 A

07-Apr-20 A

30-Jun-26

07-Apr-20 A

30-Jun-26

07-Apr-20 A

22-Jul-22 A

19-Nov-24

30-May-25

31-Dec-25

30-Jun-26

08-Apr-20 A

30-May-23 A

08-Sep-20 A

24-Sep-25

08-Dec-20 A

06-Jan-25

31-Aug-20 A

06-Feb-23 A

29-Jan-21 A

10-Jan-25

19-Apr-21 A

19-May-25

26-Feb-22 A

02-Aug-24

31-May-23 A

15-Sep-25

19-Jan-21 A

01-Jul-25

29-Apr-21 A

31-Dec-25

01-Jul-24

30-Dec-25

Key Milestones / Interfaces

PRTL-MS-0082

PRTL-MS1160

PRTL-MS-1000

PRTL-MS-0084

Environmental Clearance

Design Procurement

Design

Property Parcels

CMSS Consultant Procurement

TPSS/EBPS

PRTL-PRO-1110

TPSS Design

TPSS C1184 Contract Bid/Award

TPSS C1184 (Procurement / Installation / Commissioning)

Division 20 C1136 Contract Bid/Award

Division 20 C1136 Construction

Milestones

PRTL-CON-4900

PRTL-CON-5410

PRTL-CON-5180

PRTL-CON-4918

PRTL-CON-4920

PRTL-CON-6550

Submittals and Long-Lead Procurement

Portal Area

North Storage Yard

1st Street Bridge

New TPSS Site

South Storage Yard

East of South Storage Yard (Existing; S. of 1st Street Bridge)

Shop Building and Yard Tower

Road A Area

Mainline Tracks Area

South Ladder Tracks

EBPS need by date Regional Connector

Access to South Yard Storage Area

Cutover 3 & 7 (MS #5) North Storage Yard Complete

MS A Cutover A, Electrical tie-in and AR Track for Crosso

MS B Substantial Completion

MS C Contract Completion

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

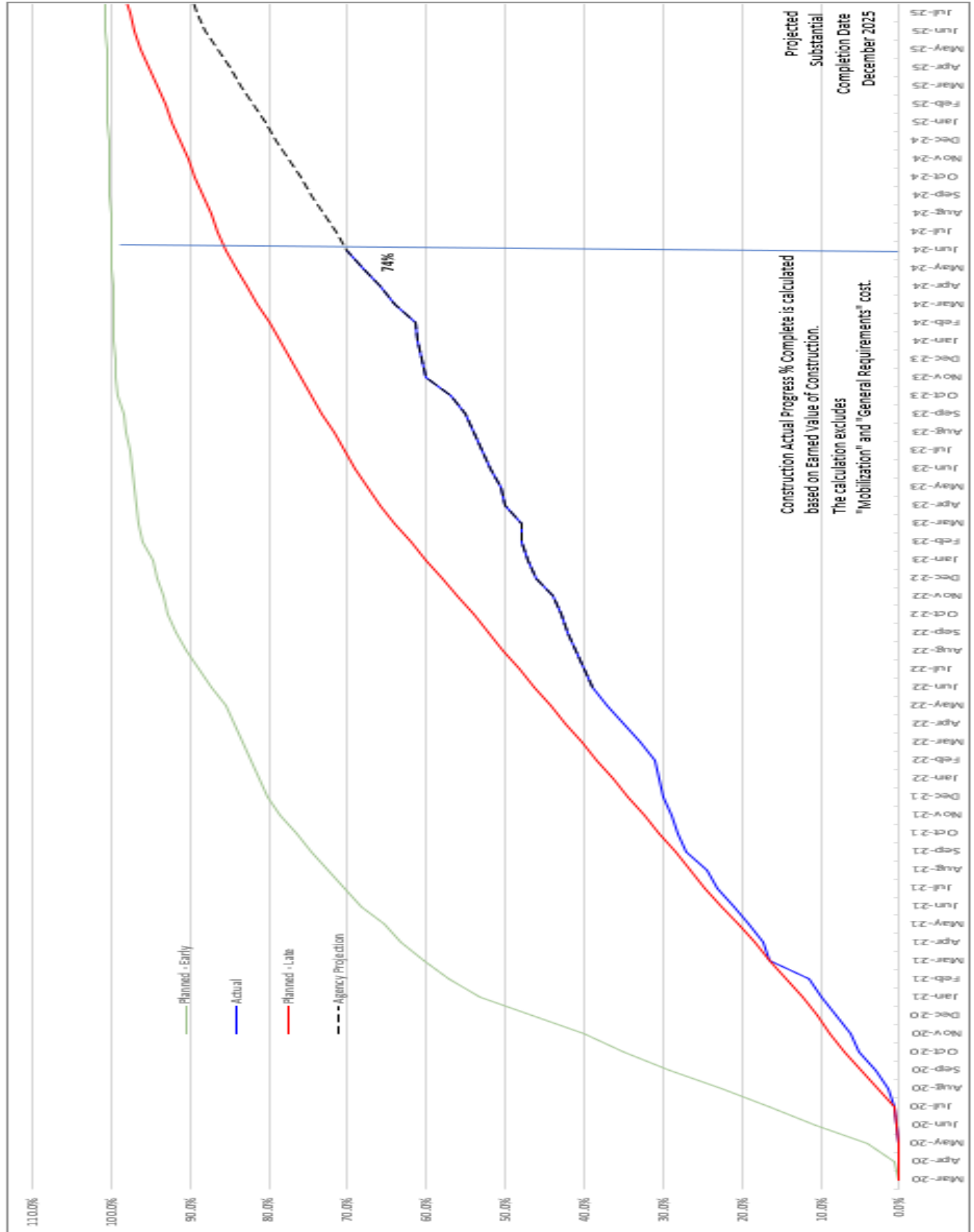
Milestone

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Planned vs. Actual Progress

C1136 Construction Progress



Planned vs. Actual Progress *cont'd*

The actual overall project progress is 74% versus an early planned of 95% (or late planned of 90%) through June 2024. The progress curves represent the physical progress of work performed to complete the current contract. The early and late planned % curves are based on the Contractor's schedule dates from the approved baseline schedule.

The physical progress percentage excludes non-construction items such as contractor's construction mobilization costs and all general requirement costs not tied to construction work effort.

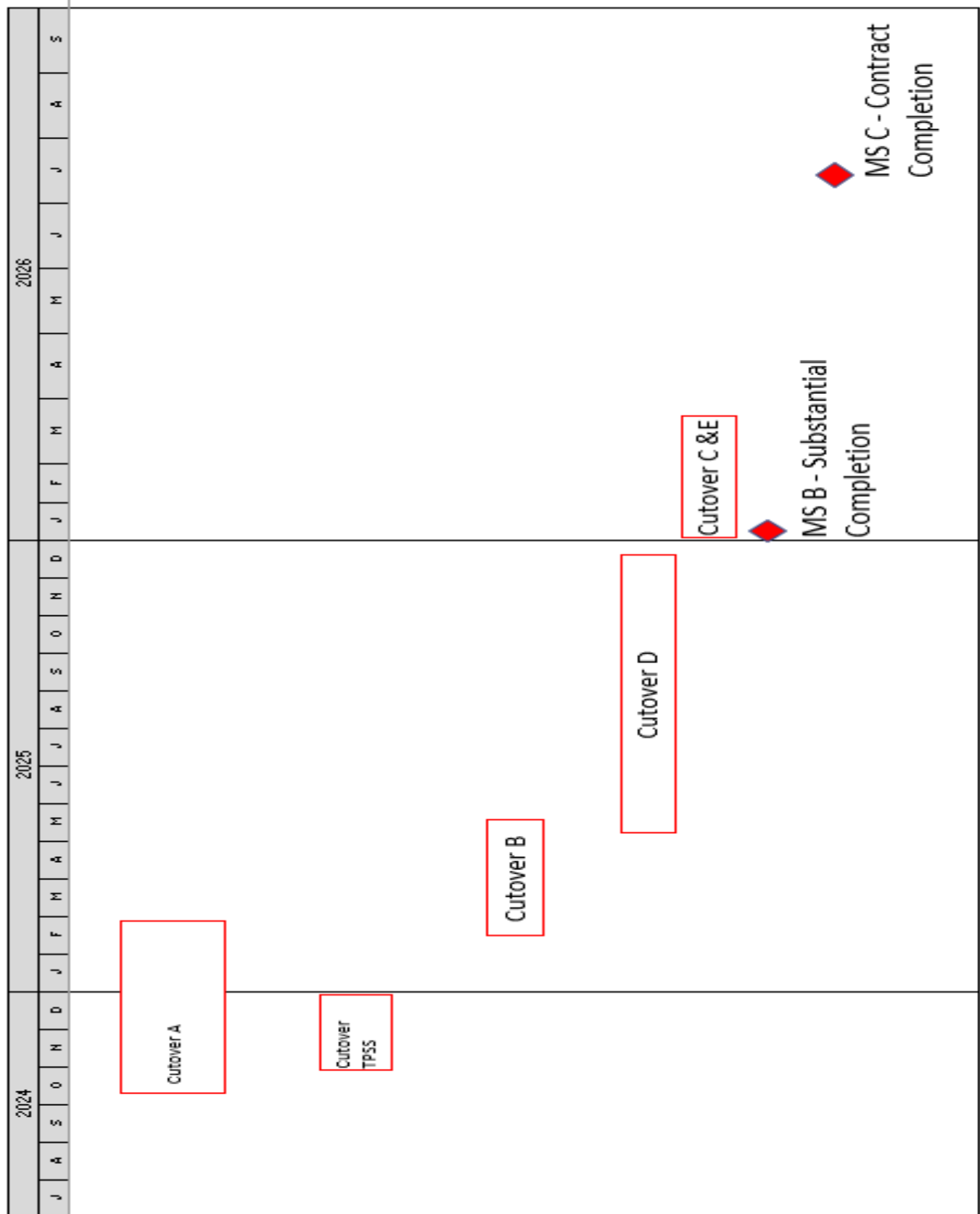
Key Activities and Milestone Six-Month Look Ahead

Milestone Date	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24
C1136 Portal Widening Turnback						
LFAT New Bungalow B- Part 1 & 2 (CutoverA)	☐					
LFAT New Portal Int Bungalow		☐				
System Integration Testing (North Ladder Track) (CutoverA)			☐			
Complete Cutover (North Ladder Track) (Pre-Revenue CutoverA)				☐		
Final Destressing and Pre-Revenue Complete Cutover (TPSS Cutover)					☐	
Demo U/G Utilities as Req'd @ Main Tracks/Existing TPSS Area						☐
C1184 Transfer Power Substation						
Generator Start Up and Testing (LFAT)	☐					
TPS AC/DC Cable Termination Landing			☐			

	MTA Staff Milestone		MTA Design Consultant		MTA Board Action
	Other Agencies		C1136		New Date
			C1184		

Project Critical Path

The critical path activities are shown in the schedule below.



Risk Management Narrative

Summary of Risks

The risk register was last updated in March 2024 during the third quarter of FY24 from the previous Quarterly December 2023 report. Since then, two (2) risks were closed and two (2) new risks were added. There is a total of thirty two (32) active risks remaining to be managed. Of the thirty two (32) risks one (1) are scored high (11 to 20 rating), eleven (11) as medium (4 to 10 risk rating), and twenty (20) as low (less than 3 risk rating).

Top Risks

The table below shows the top six (6) project risks.

Risk ID	Risk Description	Risk Score
1403	Contaminated water may be encountered which is not in the spec.	15
1584	Metro Ops request to replace an existing Bungalow which would increase costs and could delay schedule. - Link to Risk #1300	10
1447	Excessive amount of COs are affecting the progress of the contract work, but are necessary precursors.	9
1307	Encountering unknown and surprise underground utilities and inaccurate as-builts on utilities (Type II DSC) during construction project-wide. - Link to Risk #1446	9
1300	Modification to scope of construction within the yard during construction - Link to Risk #1584	9
1502	Identification of utilities at the Portal prior to demolition.	6

Newly Identified Risks

No (0) new risks were added to the risk register.

Closed Risks

Two (2) risks were closed in this period, are as follows:

- Risk #1377 – Delay to 1st Viaduct Bent 14 micropyles due to delay to duct bank work could result in future TIA
- Risk #1394 – Long lead items (fiber optic)

Risk Score Changes

Four (4) risks saw scores changed from red to yellow this period, as follows:

- Risk #1283 – Maintaining train operations during construction
- Risk #1300 – Modification to scope of construction within the yard during construction
- Risk #1402 – Disconnects in phase plans between different disciplines
- Risk #1502 – Identification of utilities at the Portal prior to demolition

One (1) risk saw score changed from red to green this period, as follows:

- Risk #1378 – Delays to the contractor due to denied track allocation requests

Actions in the Next Reporting Cycle

Continuous efforts in Risk Management will be made upon the next workshop to update the register. Next upcoming Risk Workshop is anticipated for FY25, Quarter 1.

PROJECT COST

Project Cost Analysis

DESCRIPTION	ORIGINAL LOP BUDGET	CURRENT BUDGET		COMMITMENTS			EXPENDITURES			CURRENT FORECAST	
		APPROVED	TO DATE	PERIOD	TO DATE	REMAINING BUDGET	PERIOD	TO DATE	% SPENT	PERIOD	TO DATE
EARLY DEMOLITION	36,350,437	-	39,489,733	-	39,489,733	-	-	39,479,775	100%	-	39,489,733
TPSS DESIGN/BUILD	19,124,994	428,953	20,103,062	5,124	19,469,211	633,851	13,505	19,140,064	95%	428,953	20,103,062
PORTAL WIDENING	447,575,987	2,716,931	571,680,082	13,766,445	571,680,082	-	22,111,619	474,176,655	81%	13,581,772	584,680,082
CONSTRUCTION SUBTOTAL	503,051,417	3,145,884	631,272,877	13,771,569	630,639,026	633,851	22,125,125	532,796,495	83%	14,010,725	644,272,877
RIGHT OF WAY	103,210,417	3,166	106,322,357	285,000	106,322,357	-	105,487	105,885,228	100%	3,166	106,322,357
THIRD PARTY	5,000,432	-	10,665,884	-	10,665,884	-	67,156	6,089,882	57%	-	10,665,884
PROFESSIONAL SERVICES	97,708,756	773,927	173,208,020	409,442	172,358,965	849,055	10,112,470	150,740,211	87%	773,927	173,208,020
SUBTOTAL	205,919,605	777,093	290,196,261	694,442	289,347,206	849,055	10,285,112	262,715,321	91%	777,093	290,196,261
CONTINGENCY	92,778,555	(3,922,977)	35,280,439	-	-	35,280,439	-	-	0%	(14,787,817)	22,280,439
TOTAL	801,749,577	0	956,749,577	14,466,012	919,986,232	36,763,345	32,410,237	795,511,816	77%	0	956,749,577

Original Budget

In December 2019, the Metro Board Approved the LOP Budget of \$801,749,577. At that time the project budget was allocated to match the forecasts for construction, third party, right of way, professional services, and contingency, as was indicated in the December 2019 Board report.

Current Budget

Since the start of the project there have been two LOP increases. The first occurred in February 2022, where the Board approved the LOP increase of \$75,000,000, bringing the LOP budget to \$876,749,577. The second occurred in April 2023, where the Board approved the LOP increase of \$80 million, increasing the Total LOP Current Budget to \$956,749,577. An LOP increase at the start of FY25 is being anticipated.

Commitments

Commitments increased by \$14.5 million this period (FY24 Q4) to \$920.0 million which represents 96.2% of the current budget. There was a \$0.7 million increase in commitments for this period under professional services and \$13.8 million increase in construction.

Expenditures

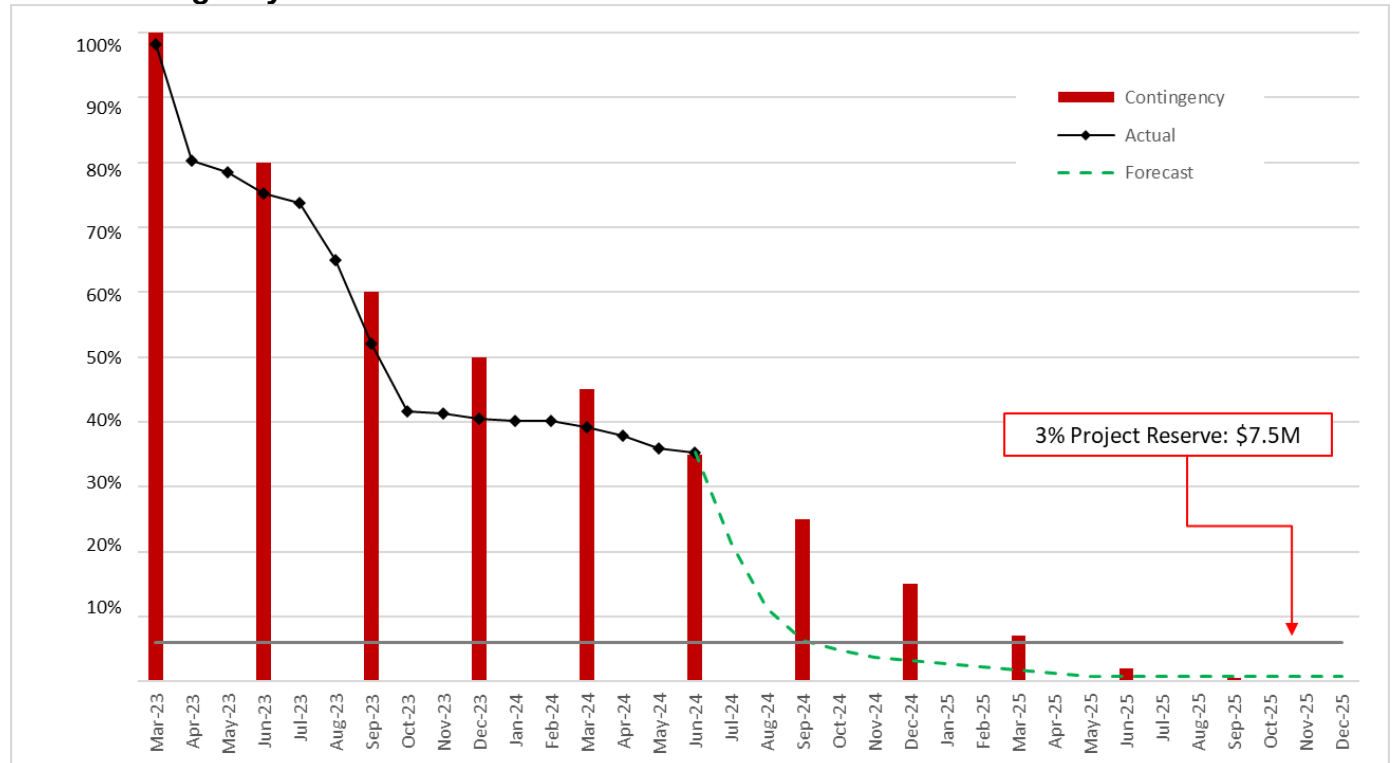
Expenditures increased by \$32.4 million this period (FY24 Q4) to \$795.5 million which represents 83.1% of the current budget. The total increase is for costs associated with construction and professional services.

Current Forecast (expressed in millions)

The overall project forecast remains the same at \$956,749,577 million this reporting quarter period.

- The forecast for Construction is \$644.3 for this reporting quarter.
- The forecast for Professional Services is \$173.2 for this reporting quarter.
- The forecast for Right of Way is \$106.3 for this reporting quarter.
- The forecast for Third Party Services is \$10.7 for this reporting quarter.
- The forecast for Contingency is \$22.3 for this reporting quarter.

Cost Contingency Drawdown



Cost Contingency Drawdown Analysis

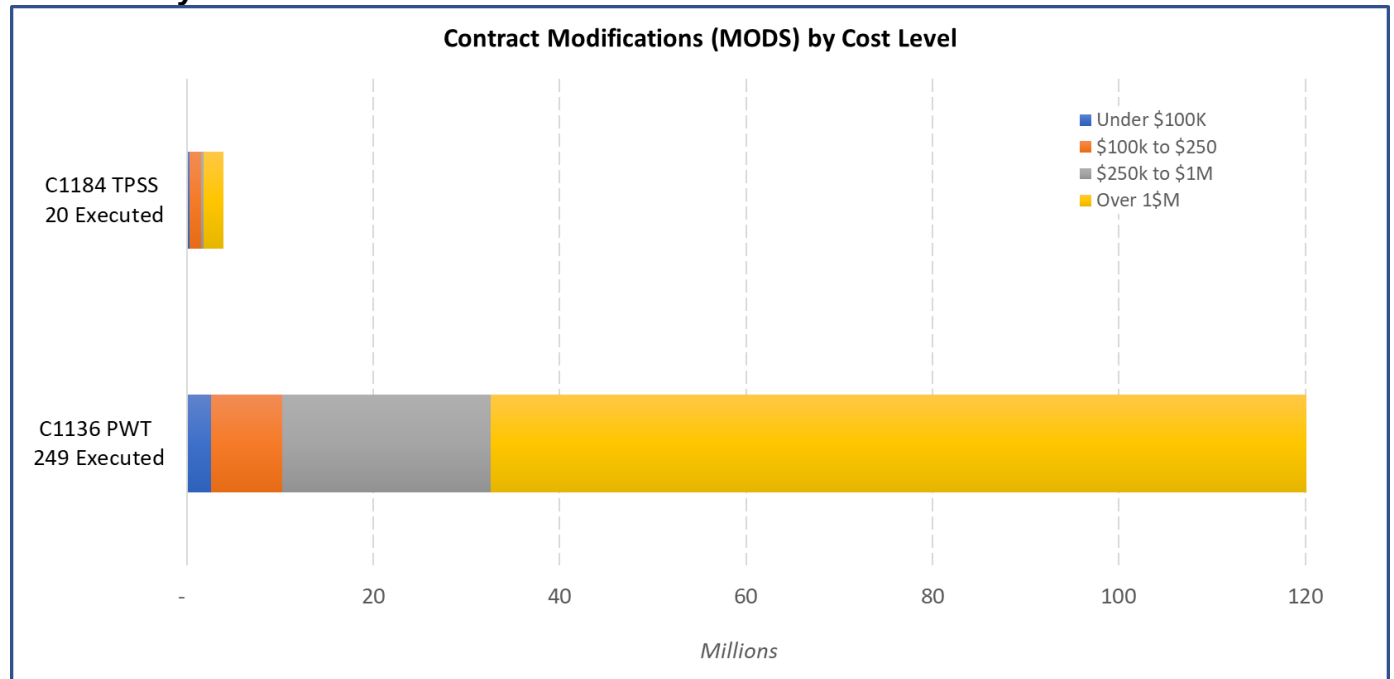
The Cost Contingency Drawdown curve reflects cost commitments and forecast exposure, thereby providing a depiction of overall contingency status. Basing the drawdown on exposures (issuances of change notices) rather than executed contract modifications, eliminates the administrative processing time involved to finalize contract modifications from the drawdown projections. Planned expenditures per quarter have also been updated to reflect the current schedule and risks.

Total Contingency is \$309.4 million with \$61.7 million in Allocated Contingency and \$247.8 million in Unallocated Contingency. An LOP increase of \$80 million and budget reallocation within the project at the end of Fiscal Year 2023 Quarter 4 reestablished project contingency levels. The Project Reserve and Contingency levels are approaching below 3% and will be proposing an LOP increase in the following fiscal year.

In Fiscal Year 2024 Quarter 4, the remaining total project contingency (allocated and unallocated) is \$35,280,439.

PROJECT COST CONTINGENCY UNITS in DOLLARS					
	LOP Contingency	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)
Allocated Contingency	61,665,813	(61,665,813)	-	(61,665,813)	-
Unallocated Contingency	247,778,555	(211,923,441)	(574,676)	(212,498,116)	35,280,439
Total	309,444,368	(273,589,253)	(574,676)	(274,163,929)	35,280,439

Summary of Construction Contract Modifications



Cost Level	C1136 PWT 249 Executed		C1184 TPSS 20 Executed	
Under \$100K	125	2,615,159	12	290,539
\$100k to \$250	47	7,638,829	6	1,236,309
\$250k to \$1M	47	22,383,036	1	292,562
Over 1\$M	30	113,056,424	1	2,101,007
Total Contract MODs	249	145,693,448	20	3,920,417
Contract Award Amount		431,777,000		16,187,495
% of Contract MODs		25%		19%

Two Hundred and Forty-Nine (249) Contract MODs with a total value of \$145.7 million have been executed since the award of Contract C1136 – Portal Widening Turnback by Tutor Perini Corporation.

Twenty (20) Contract MODs with a total value of \$3.9 million have been executed since the award of Contract C1184 – Transfer Power Substation by C3M.

FINANCIAL/GRANT

State of Funds Anticipated

Revised: updated April 2023

Proposed Funding (\$1,000s)						
FUND SOURCE	Prior	FY23	FY24	FY25	FY26	TOTAL
TIRCP	22,830		46,380			69,210
State SB1 LPP		20,000	84,090	29,000		133,090
Local Funds	512,720	147,150	8,960	56,000	29,620	754,450
TOTAL FUNDS	535,550	167,150	139,430	85,000	29,620	956,750

Superseded - Previous Statement July 2023

Proposed Funding (\$1,000s)						
FUND SOURCE	Prior	FY22	FY23	FY24	FY25	TOTAL
TIRCP	4,772	0	16,880	47,550		69,202
State SB1 LPP	16,880	37,510	35,080	43,790		133,260
Local Funds	345,980	128,250	99,040	16,660	84,350	674,280
TOTAL FUNDS	367,632	165,760	151,000	108,000	84,350	876,742

Superseded - Previous Statement

Proposed Funding (\$1,000s)								
FUND SOURCE	16-17	18-19	19-20	20-21	21-22	22-23	23-24+	TOTAL
TIRCP	4,772	0	64,437	0	0	0	0	69,209
State SB1 LPP	0	0	18,659	37,506	37,506	37,506	0	131,177
Local Funds	15,807	104,384	368,705	37,506	37,506	37,506	0	601,414
TOTAL FUNDS	20,579	104,384	451,801	75,012	75,012	75,012	0	801,800

TIRCP is the Transit and Intercity Rail Capitol Program for Metro Red Line and Purple Line Core Capacity Improvements. The TIRCP grant provides partial project funding of \$62,209 million for the additional yard capacity located at Metro's Division 20 to accommodate the augmenting expansion of the Purple Line Extension as well as not to preclude a future revenue station in the Arts District.

SB 1 is the California Senate Bill 1 also known as the Road Repair and Accountability Act of 2017. The SB1 Grant is a Local Partnership Program (LPP).

The LPP Road Repair and Accountability Act of 2017 (Senate Bill 1) created the Local Partnership Program and continuously appropriates \$200 million annually from the Road Maintenance and Rehabilitation Account to local and regional transportation agencies that have sought and received voter approval of taxes or that have imposed fees, which taxes or fees are dedicated solely for transportation improvements.

Ref. <https://catc.ca.gov/programs/sb1/local-partnership-program>

The SB1 LPP grant provides partial project funding of \$133,260 million.

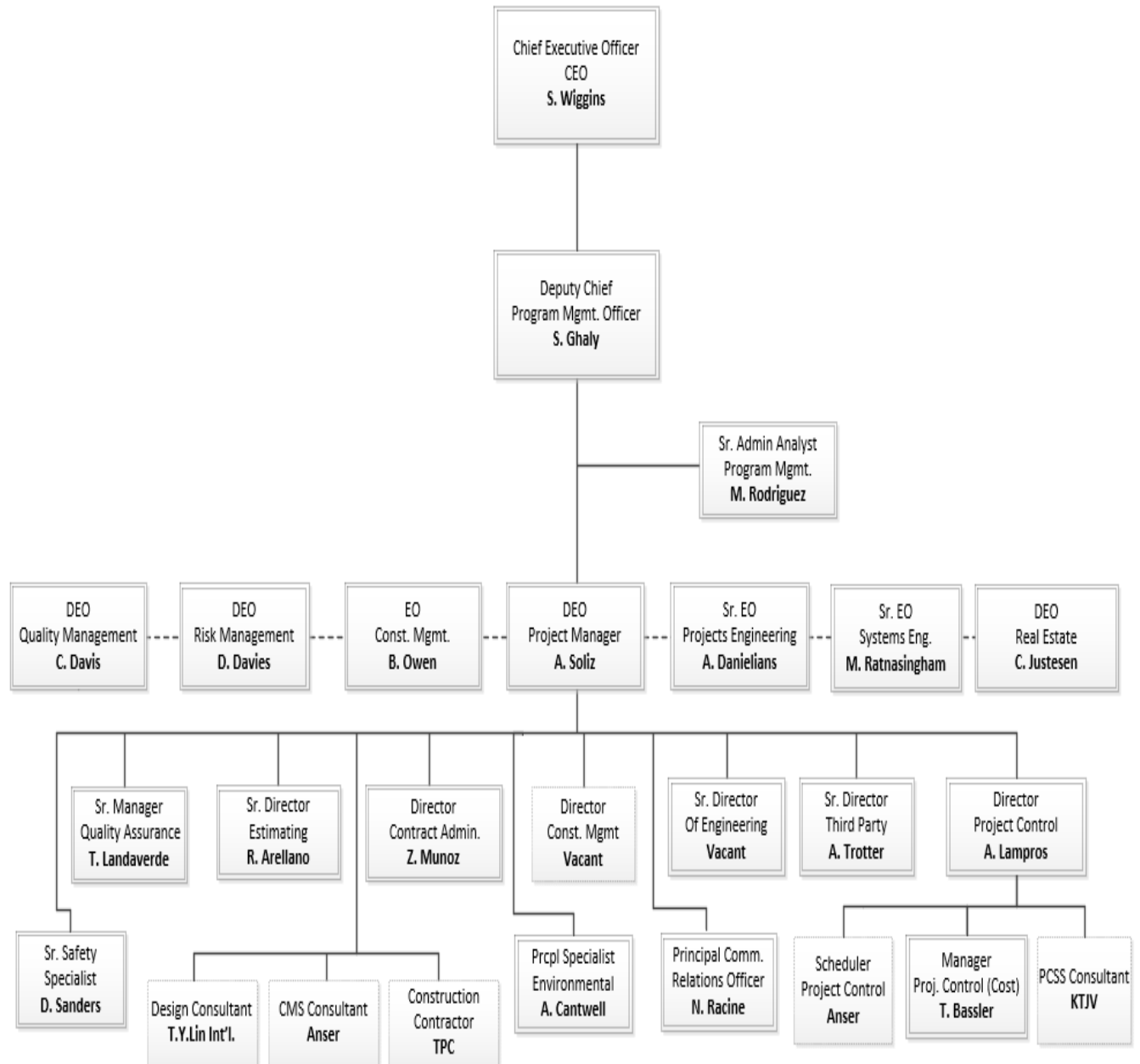
Local Funds are comprised of Measure M and Measure R Los Angeles sales tax. Local Funds provides remaining project funds of \$674,280 million.

PROJECT ORGANIZATION AND STAFFING

The design-bid-build contract is being managed by Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO). Below is the organization chart for the project team and project staffing for engineering services consultant.

Division 20 Portal Widening Turnback

Management Organization and Staff



Issue Date: 12/31/2023

Metro Staff ☐
Consultant ☐

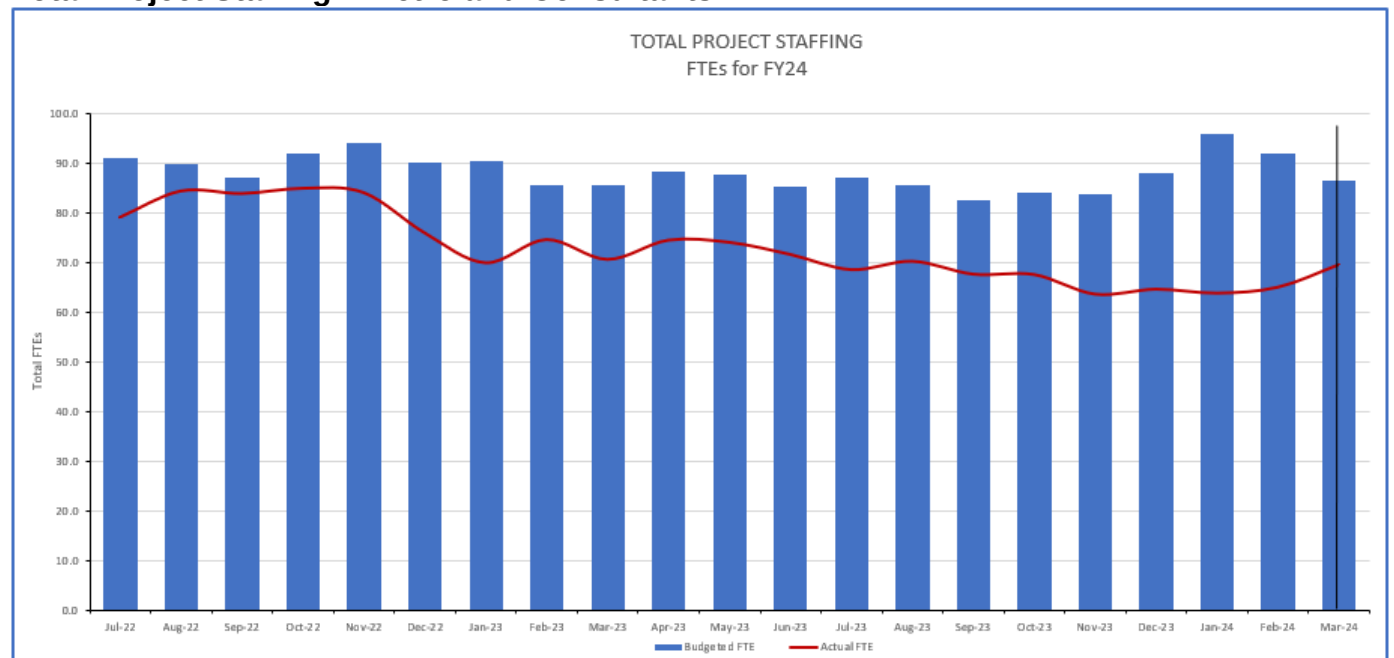
Staffing by Group

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.

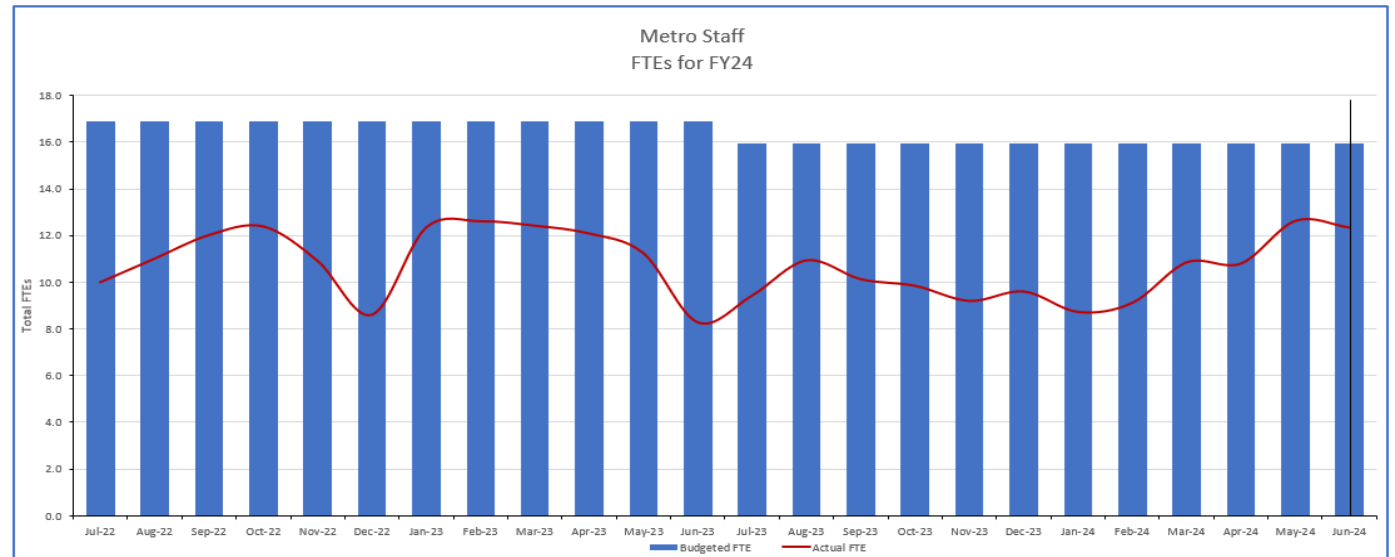
The total budgeted FY24 Total Project Staffing plan averaged 88 FTEs per month. The total actual project staffing for June 2024 is comprised of 12 FTEs for Metro's Project Administration staff and 55 FTEs for consulting staff. Consulting staff FTEs are based on monthly invoice billable hours. Review of staffing plans is on-going to ensure staffing needs are appropriately managed.

FTEs – Full Time Equivalents

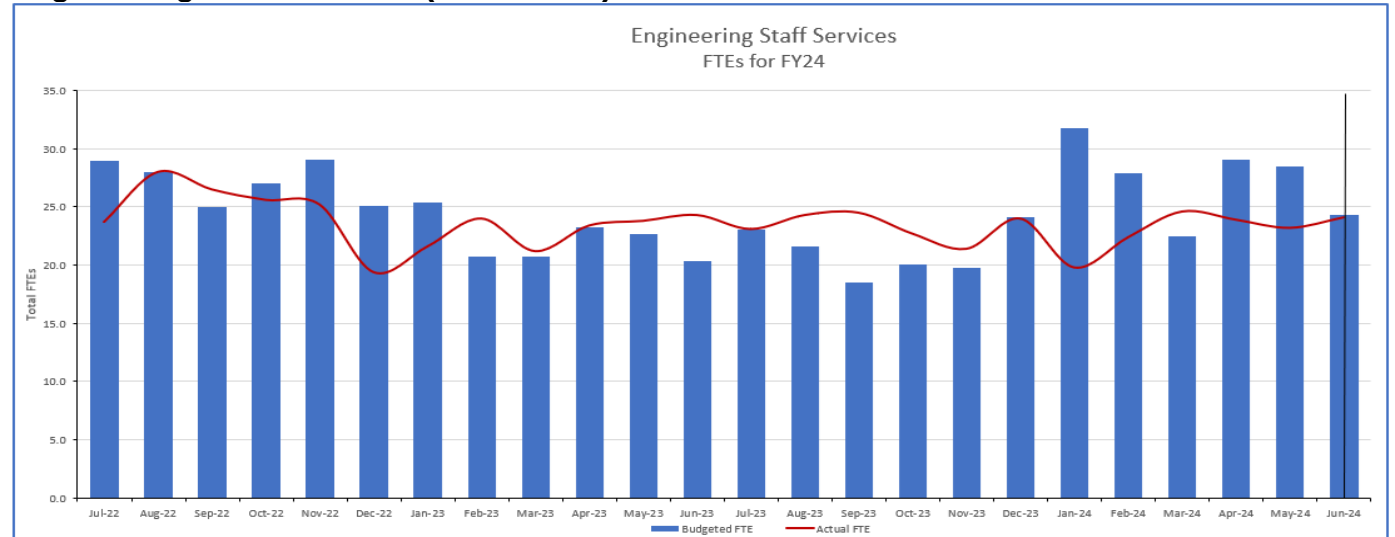
Total Project Staffing – Metro and Consultants



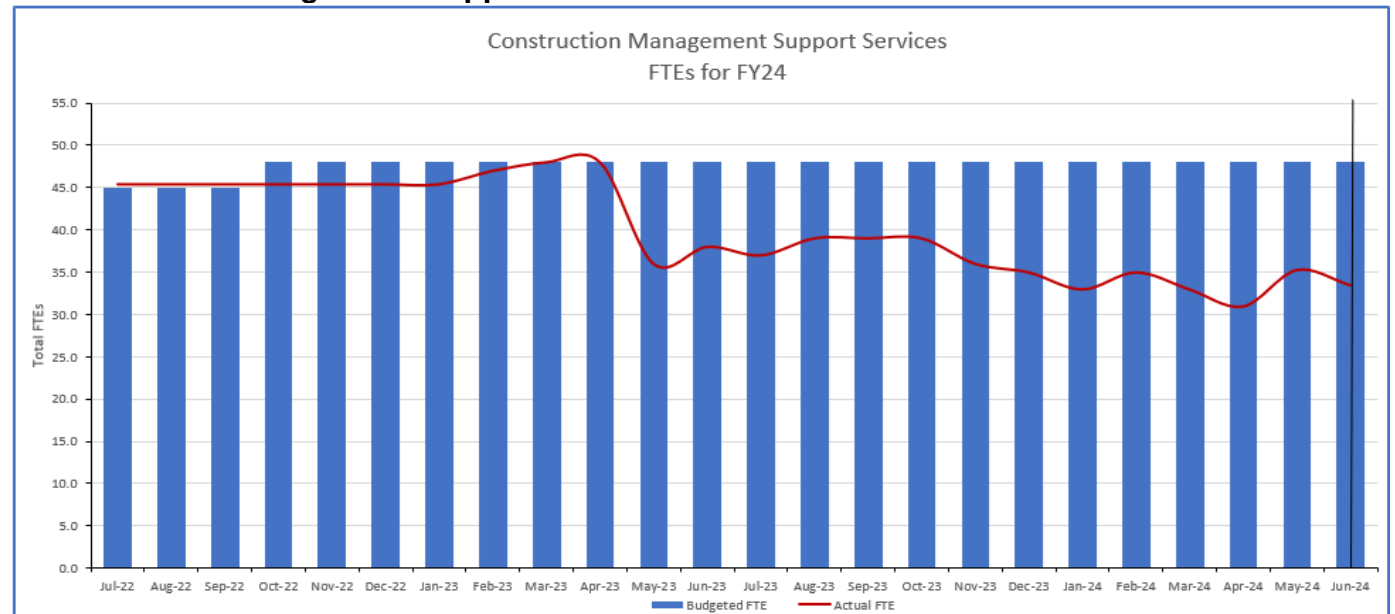
Metro Staff



Engineering Services Staff (Consultant)



Construction Management Support Services



QUALITY ASSURANCE

- Worked in conjunction with the contractor's Quality Management team to resolve items which have resulted in documented deficiencies.
- Facilitated dialogue with the contractor's Quality Group to continue Improvements in quality control processes and document control management.
- Coordinated with Metro's Verification Testing Laboratory consultant (Ninyo and Moore) to provide continued support with the inspection and testing of the Division 20 Project work activities.
- Performed reviews of the contractor's quality submittals and Construction Work Plans for compliance with contract requirements.
- Worked closely with the contractor's Project Quality Manager to assess and manage work activities which require additional attention.
- Continued evaluations of the contractor's inspection report, test results and associated quality records.
- Implementing new Metro Quality Management Oversight System (QMO) in this Project.

ENVIRONMENTAL

The following is a listed series of items that consolidates the scope of all the consultants task orders and finally the completion of Enabling Contract.

- Participated in various Project coordination meetings and evaluated progress and schedules for environmental compliance and sustainability efforts.
- Provided environmental awareness training as needed.
- Conducted field environmental monitoring and spot check inspections for construction noise and vibration, stormwater and fugitive dust BMPs, and Metro's Green Construction Policy.
- Reviewed and provided responses to various contractor submittals and requests for information related to environmental matters.
- Performed archaeological/paleontological and cultural monitoring activities as needed during various excavation activities.
- Complied with various SCAQMD rules and permits including VOC and dust monitoring.

APPENDIX CHRONOLOGY OF EVENTS

May 2016	Division 20 Portal Widening Turnback Project Initiated
March 2017	Design Engineering Contract AE66758000
July 2017	Real Estate Acquisition ADCO 200-234 N. Center Street
January 2018	Real Estate Acquisition Viertel's Tow Yard 500 N. Center Street
June 2018	Construction Management Support Services Contract AE4863MC074
October 2018	Certified Final Environmental Impact Report and Related Actions
January 2019	Real Estate Acquisition 100-120 N. Santa Fe
January 2019	Portal Widening Construction Contract C1136 Issue for Bid
February 2019	Real Estate Acquisition Pickle Works 1001 East First Street
February 2019	Transfer Power Substation Contract C1184 Issue for Bid
June 2019	Transfer Power Substation Contract C1184 Notice of Award
July 2019	Transfer Power Substation Contract C1184 Notice of Proceed
December 2019	Board Approved Life of Project Budget
February 2020	Portal Widening Construction Contract C1136 Notice of Award
March 2020	Completion of Enabling Project Contract PS69133 Notice of Award
April 2020	Portal Widening Construction Contract C1136 Notice of Proceed
March 2020	Completion of Enabling Project Contract PS69133 Notice of Award
December 2020	Completion of Enabling Project Contract PS69133 Completed

APPENDIX CHRONOLOGY OF EVENTS *cont'd*

January 2021	Contract C1184 ongoing LADWP coordination. Contract C1136 ordering of third rail; portal timber logging & Installation of temporary power poles
February 2021	Installation of Temporary No.8 turnout for PLE1 transport of CWR into tunnel. Contract C1184 submittals to continue the fabrication of TPSS station, Switch gear & emergency backup generator
March 2021	Relocation of Amtrak fence to initiate walkway along Road A; continuation of duct bank and water lines install. Contract C1184 resolution of seismic design
April 2021	Ordering of third rail; initiate bridge removals. Contract C1184 additional submittals to continue the fabrication of the TPSS station
May 2021	Installation of temporary power poles and cables. Continuation of duct banks and waterlines
June 2021	Support of Excavation and Lagging on the Portal Wall is complete
September 2021	C1136 MOD20 /CN6 Executed
September 2021	Commence Microlok Cut Over
November 2021	Microlok II cutover successfully complete
December 2021	1 st . Street Bridge poured footings and commence the installment of thirty-seven casted girders
January 2022	Installation of timber treated lagging at the Portal (East/West)
February 2022	Demolition of Smoke Slab on 1 st Street bridge
March 2022	Shoofly Cutover Tail Track 2 (TT2) to Track 1
May 2022	North Yard Storage Tracks asphalt cap
June 2022	TPSS Foundation Pour
August 2022	1 st Street Bridge Bent 16 Demolition
September 2022	Northern Yard Storage Track Installation
November 2022	North Storage Yard Paving, Ballast Placement and Storage Track Substantially complete EBPS Generator pad completed (C1184 TPSS)

APPENDIX CHRONOLOGY OF EVENTS *cont'd*

December 2022	Contract Milestone 2 - Portal Wall Demolition started Transformer pad completed Metering Switchgear Installed (C1184 TPSS)
January 2023	1 st Street Bridge Bent 13 Demolition
February 2023	Ducommun St. Protection slab and the first invert at the portal
March 2023	West Portal Retaining Wall foundation/slab
April 2023	Emergency Back up Power Supply (EBPS) delivery and setting
June 2023	Contract Milestone 3 - Completion of Portal Wall and conduits MCP site
June 2023	Traction Power Substation (TPSS) delivery and setting – 4 out of 6 sections
August 2023	Traction Power Substation (TPSS) delivery and setting – final 2 sections
August 2023	Contract Milestone 4 - Completion on Traction Power cable installation related to TPSS/EPBS Equipment Installation
October 2023	TPSS Local Field Acceptance Testing (LFAT)
December 2023	DWP TPSS Energization
March 2024	Train Control Bungalows – final setting of 4 train control bungalows
May 2024	4 new Train Control bungalows installed
June 2024	North Storage Yard Complete