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May 25, 2022

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FROM:

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SUBJECT:

CRENSHAW/LAX TRANSIT PROJECT
April 2022 MONTHLY PROJECT STATUS REPORT

Attached herewith is the Monthly Project Status Report for the Crenshaw/LAX Transit Project. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Crenshaw/LAX Transit Project status for April 2022.

If you have any questions regarding this report or its supporting information, please contact Brittany Zhuang, Director, Project Control at (213) 424-7512.

SG: ts

Enclosure

Crenshaw/LAX Transit Project

MONTHLY PROJECT STATUS REPORT

APRIL 2022



Metro[®]

CRENSHAW/LAX TRANSIT PROJECT

MONTHLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART
THROUGH A GRANT FROM THE U. S. DEPARTMENT OF
TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA).

APRIL 2022

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PROJECT OVERVIEW

Project Background

The Crenshaw/LAX Transit Project is a north/south light rail line that serves the cities of Los Angeles, Inglewood, Hawthorne and El Segundo as well as portions of unincorporated Los Angeles County. The alignment extends 8.5 miles, from the intersection of Crenshaw and Exposition Boulevards to a connection with the Metro Green Line south of the Aviation/LAX Station. The project provides major connections with the Los Angeles International Airport (LAX) as well as links to the C Line (Green), the E Line (Expo) and countywide bus network.

Two additional stations, Leimert Park and Westchester/Veterans were funded by the City of Los Angeles and by Metro and were approved to be part of the project by the Metro Board in May 2013. The Metro Board in July 2014 and again in May 2015 approved a revision to the project alignment to include accommodations to the alignment at 96th Street to not preclude a future light rail Metro Rail station being developed as part of the Airport Metro Connector (AMC) project. These accommodations are not funded by the Crenshaw/LAX Transit Project but are paid for by the Airport Metro Connector (AMC) project.

The alignment is comprised of a double-tracked rail line consisting of sections of at-grade in-street, at-grade within railroad right-of-way, aerial, and below-grade guideway sections, eight stations, park and ride facilities at two locations, utilities, landscaping, roadway improvements required by the project and a maintenance & storage facility (Southwestern Yard).

The project alignment consists of three Segments A, B and C:

- Segment A stretches from south at C Line (Green), underground structure 1, areal station at Century/Aviation to at grade Westchester/Veteran station.
- Segment B, includes 3 at grade stations (Downtown Inglewood, Fairview Heights and Hyde Park) and underground structure 3 to 48th street portal.
- Segment C, includes the remaining north portion of the project from underground portal structure 4, three underground stations Leimert Park, Martin Luther King and Exposition.

The Project configuration is based on years of planning and environmental work that is reflected in the following milestones:

- Major Investment Study – 2003
- Metro Board approval of Alternative Analysis – December 2009
- Initiation of Preliminary Engineering – September 2010
- Metro Board certification of Final EIS/EIR – September 2011
- FTA issuance of Record of Decision – December 2011
- TIFIA and TIGER II Grants approved September 2012



Major Procurements

Contract C0990 Crenshaw/LAX Advanced Utility Relocations

The design of several early utility relocations was advanced sufficiently into final design to allow for bidding of critical early utility relocations. This contract includes relocating three (3) existing duct banks that feed various NAVAIDS on the south airfield complex. New duct bank infrastructure was built by Metro with the fiber replacement work and cut-over by FAA/LAWA. These duct banks contain fiber lines and power lines which belong to both LAWA and FAA. Since the track alignment is below grade at these crossings, the duct banks were relocated in advance to allow for the construction of the track alignment. In addition, other wet utilities along the Harbor Branch and Crenshaw Boulevard segments of the corridor that can be relocated in advance were included as part of this contract.

Design-Build Contract C0991 Southwestern Yard

The Board-adopted 2009 Long Range Transportation Plan (LRTP) for Los Angeles County envisioned one new central Light Rail Transit (LRT) Maintenance facility to be used by all projects. Since the LRTP adoption, substantial progress on light rail system planning and development, including more accurate vehicle assignments, cost estimates, and functional requirements, has led Metro to conclude that two new light rail vehicles (LRT) yards, an Eastern Yard and a Southwestern Yard, are necessary. This contract constructed the Southwestern Yard which consolidated maintenance facility requirements for this project as well as the operating Metro Green Line, proposed South Bay Metro Green Line Extension and proposed Metro Green Line to LAX. Southwestern Yard is complete and maintained by Metro Operations.

Contract C0992 Crenshaw/LAX Concrete Ties and Assembly Items

Metro added a contract for procuring owner-supplied equipment for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor. The equipment within the contract scope of work includes concrete ties and assembly items. Procurement completed and delivered to the project.

Contract C0992A Crenshaw/LAX Rail and Bumping Posts Procurement

Metro added a contract for rebidding the procurement of running rail and bumping posts for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor including a bumping post for the Design-Build Contract C0991 Southwestern Yard. Procurement completed and delivered to the project.

Design-Build Contract C0988 Crenshaw/LAX Transit Corridor

This is the largest project contract that completes final design and construction of the infrastructure required along the corridor alignment. The structures required to be constructed are eight stations (at-grade, elevated and underground), grade separations including flyover structures, cut and cover trenching, tunneling and two park-n-ride facilities. The scope of work includes all the necessary systems work including train control, traction power supply substations and distribution, overhead catenary/contact rail, communications, and systems tie-in to the existing C Line (Green). The project delivery method for this contract was design-build utilizing a two-step best value procurement approach with submittal of qualification statements through an RFQ process, prequalification of qualified proposers followed by release of an RFP soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

Light Rail Vehicles

The Board approved exercising Option 1 of Contract P3010 with KinkiSharyo International (KI) to provide light rail vehicles (LRV) for the Crenshaw/LAX project. The total number of vehicles in the Option is 28 which include 20 LRVs for the Crenshaw/LAX project and two additional cars for spares. The remaining six cars are for replacement of Metro's current fleet. The first P3010 car was delivered in May 2017. The final P3010 car (22nd car) for Crenshaw/LAX project was delivered in September 2017, completing the Option delivery for the Crenshaw Project. All twenty-two (22) Crenshaw cars are currently in revenue service on the C Line (Green) and A Line (Blue). In coordination with the mainline contractor, the contractor KINKISHARYO INTERNATIONAL, LLC of Light Rail Vehicle Contract P3010 completed the

onboard vehicle verification testing and awaiting full access for final software verification on all Segments and WSCC train control SIT-1 testing.

Rail Operations Center (ROC)

The existing functional operations at the ROC has expanded to accommodate the central control functions associated with five new rail lines including Crenshaw/LAX Project. The Project is contributing \$3.5 million towards this expansion for Crenshaw/LAX Project.

ROC installation and testing were mostly completed in February 2020. SCADA software development is complete. Metro has completed all System Integration Test Phase 2 (SIT-2) procedures and key personnel is assigned to manage and perform tests. Metro operations continue with SIT-2 testing of completed sub-systems, by location, and continuing with non-SCADA of CCTV, intrusion detection, telephone, radio, traction power, TPIS, CTS and continuing Supervisory Control and Data Acquisition (SCADA) testing of points for TPIS, intrusion, telephone, elevator, sump pump, environmental control, traction power, CTS, radio, fire alarm and train control SCADA systems that are available. Rail Activation/SIT-2 coordination of weekly meetings continues between WSCC, sub-contractors, Metro management, Operations and ROC teams. Metro management continues with coordinating meetings in support of ongoing and upcoming SIT-2 from ROC, and needed support efforts during SIT-2 with WSCC, LKC and other subcontractors. ATC connectivity to ROC is established, data is verified, and SIT-2 team started train control SCADA testing. Partial Substantial Completion for Segments A & B was issued on March 12, 2022. The current forecast is for the contractor to complete Substantial Completion of Segment C in Spring 2022. Metro will continue Phase 2 System Integration Testing, and complete Pre-revenue Operations, Fire Life Safety Certification and California Public Utility Commission Certification leading to Revenue Service and opening to the public in 2022.

Fare Collection

A notice-to-proceed was issued on January 30, 2018, to the existing Metro Universal Fare Collection System (UFCS) contractor, Cubic Transportation Systems (CUBIC), to procure UFCS equipment for the Crenshaw/LAX Project eight stations.

The Universal Fare Collection System (UFCS) contractor Cubic and mainline contractor WSCC have completed installation work at all control room locations. The underground station Ticket Vending Machines (TVM) cladding installation were completed by WSCC. Fare gates, swing gates, and ticket vending machines (TVMs) installation are complete and continuing to work on open punch list items and resolving issues and final testing over the next few months. CUBIC has confirmed communication with ROC and is planning for final programming and activation prior to Revenue Service.

Program Management

The Walsh Shea Corridor Constructors (WSCC) contract is being managed by a team of Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO). Mott MacDonald provides engineering and design support services while Stantec, Inc. provides construction management support services. An overview of staffing is provided under the Staffing section of this report. The on-site program management team is also supported by

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Metro Headquarters resources to include, but not limited to, engineering, risk management, environmental, community relations, quality management, operations, and creative services departments. In addition, a Project Management Support Services (PMSS) consultant is providing resources to supplement staff.

Project Schedule:

Metro issued in September 2018 a non-compensable unilateral change order (CO-223.1) to WSCC to extend their substantial completion milestone to December 11, 2019. Project continues to fall behind the dates reset in the non-compensable unilateral change order. There is still testing left to be completed by WSCC. This includes rework, trouble shooting, discrepancies, prerequisite work to complete systems local field acceptance tests, systems integration tests and test reports. Field issues are being addressed but new issues are discovered during testing continue to impact the completion schedule.

WSCC in their February 2022, monthly schedule update reflects a WSCC Systems Substantial Completion forecast date of April 19, 2022. Metro is concerned that the current schedule forecast from WSCC does not reflect all the remaining work activities (retesting and test reports, etc.) prior to substantial completion and continues to reflect slower than planned progress every month. Metro is also concerned that WSCC is not applying the resources and field force needed for timely completion of the remaining open items and issues including the test reports.

Project Budget:

In May 2013, the Metro Board approved a Motion that amended the fiscal year 2014 Proposed Metro Budget to include funding for an underground station at Leimert Park Village and an at-grade station at Westchester/Veterans as part of the baseline project. This Motion added \$135 million to the Life of Project (LOP) budget which included \$80 million in uncommitted fiscal year 2014 funding and \$55 million from the City of Los Angeles. Metro reached agreement with the City of Los Angeles to cover the incremental cost of the stations above the \$80 million identified in fiscal year 2014 funding which the Metro Board approved in May 2013.

With Metro Board approval on June 27, 2013, the additional \$135 million is included in the sources of funds chart as well as the additional \$160.1 million for the increased cost of the base work. All recommendations were approved by the Metro Board on June 27, 2013 except that change order authority was maintained at \$500,000. This board action amended the life of project budget to \$2,058 million.

The Metro Board approved on May 28, 2015, an increase in the amount of funding that the Crenshaw/LAX Project is contributing toward the total cost of the Southwestern Yard Project. An additional \$10.8 million is required to be funded by drawdown from the Unallocated

Contingency Current Budget Standard Cost Code (SCC) 90 and added to the Southwestern Yard Current Budget SCC 30. The current budget includes the 49% cost allocation share that the project is responsible for paying which includes funding of the design and construction for the Southwestern Yard. This amount is revised to \$150.2 million out of a new total of \$307.2 million adopted by the Metro Board.

Due to the extension of the Project's Substantial Completion date, the Metro Board of Directors action on May 28, 2020, increased the Life-of-Project Budget by \$90 million. The additional funding is required to provide funding for professional services that support the completion of the Project. The required support includes Metro staff and professional services consultants who provide various services to assist in the management and oversight of the Project.

Construction and Community Relations:

The Construction and Community Relations team is tasked with promoting the Project and performing public outreach within the community to keep stakeholders informed of construction activities occurring along the Project alignment. To facilitate the communication, community leadership councils have been formed which represent geographic-based constituent groups along the Project.

The Project is also engaged in social media outreach and various marketing and advertising efforts designed to keep the public informed and excited about the Project. These efforts are aimed at promoting businesses that are affected by construction.

System Integration:

The Project's integration of three separate lines, each possessing distinct system technologies, presents significant challenges for both the Project and Metro. The Project is coordinating the systems interface design, construction, testing, and commissioning while the Agency maintains revenue service on the operating lines. The Crenshaw Project tie-in with the Metro Rail C Line (Green) was completed and tested.

Metro's Project Team is monitoring and coordinating testing progress with operations, mainline contractor, and ROC management team to ensure all requirements, including procedures, integrated testing and test reports are in place to support ongoing and upcoming System Integration Testing Phase 2 (SIT-2). Coordination of weekly and daily meetings are continuing to address and prepare for SIT-2 testing including test procedures, test plan, and staffing requirements. Metro SIT-2 team are continuing to monitor progress of required prerequisites as they are successfully tested, and test reports are approved for the remaining subsystems.

Metro continues SIT-2 testing of SDADA and non-SCADA points for the CCTV, intrusion detection system, telephone systems, elevator, environmental control, traction power, CTS, radio, traction power, TPIS, fire alarm and train control testing.

Walsh-Shea Corridor Constructors (WSCC) is continuing with system's Local Field Acceptance Testing (LFAT), and Systems Integration Testing (SIT-1) at various locations on the project. The WSCC continues the coordination, planning, and startup and LFAT process of the remaining open items for the underground structures, stations mechanical Emergency Ventilation Fans (EVF), open test reports and submittals, including other open items and punch list which are in BIM-360 for tracking and resolution.

Rail Activation:

The Project and Metro Operations recognize the extensive planning required in preparation for rail activation of the new regional light rail service the Project will enable through the south Los Angeles area. Associated detailed rail activation planning Revenue Readiness Plan (RRP) and critical path scheduling efforts are underway. Metro Operations have completed Southwestern Yard (Division 16) rail activation and continues to provide support to the mainline contractor testing efforts as needed, including vehicles with operators for testing. Metro Management, WSCC Contractor, California Public Utilities Commission (CPUC) and Operations are meeting periodically to coordinate, manage, and support the Project testing and activation. FTA/PMOC have started the project "Readiness for Service" review process as per Oversight Procedure 54 (OP54) in collaboration with Metro team.

EXECUTIVE SUMMARY

The Project has achieved 99.8% completion based on earned value measurements for design and construction.

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

Design Status

Design - Build Contract C0988 (Mainline Contractor)

Walsh-Shea Corridor Constructors (WSCC) continues with engineering in support of construction, installation, testing and commissioning. The engineering support during construction is identified as a concern in the project due to extensive repair, rework and field issues resolutions required (for more details see Key Concerns 3, 7, 8, 9 and 10), affecting construction due to the following items, finishes cladding (completed), plinth gap repair (completed), Station speakers (completed), electrical and mechanical (emergency fans/dampers) trouble shooting of discrepancies and testing (EVOP, EGOP, ESOP ongoing), system's work and testing including SIT-1 are ongoing. WSCC continues to support coordination and resolution of engineering issues including submittals, studies, re-design, NCR's, fire life safety (FLS) issues, test reports, etc.

Construction Status

Design - Build Contract C0988 Mainline Contractor

WSCC continues working on punch list and open items including testing along all areas of the alignment. The four at-grade stations, underground structures (UG1, UG3 & UG4) and all six bridge superstructures including the aerial structure concrete placements are completed and in field inspection, punch list and acceptance process and continuing with systems installation and testing (LFAT and SIT-1) including train control testing and HVAC shut down sequence. The three underground stations remain at various levels of completion with an emphasis on mechanical verification testing and systems testing. Finish work inside the stations, entrance structures and plaza finishes are complete and working on the punch list and open items in BIM-360 continues.

WSCC is continuing with the system's Local Field Acceptance Testing (LFAT), and Integrated LFAT (iLFAT is complete), and systems Integration testing at various locations on the project including trouble shooting of discrepancies and retesting. The WSCC/EEI commissioning agent mostly completed startup process and WSCC is continuing to address the remaining open items including open submittals and reports.

Trackwork and Overhead Catenary System (OCS) and Overhead Contact Rail (OCR) are completed and verified. All segments are energized and under track allocation control. Segments A and B is currently under Metro operations track allocation. Wayside train control installation is complete along the alignment including in the underground stations, tunnels and connectivity established with clean data communication to the Rail Operations Center (ROC), signal sighting and loss of cab signal issues are resolved. Systems installations are complete and continuing with systems LFAT's and SIT-1 discrepancies resolution and retesting.

WSSC and Metro continue to coordinate with other agencies, cities and utility companies (power, water, gas, and communication) at various locations as needed.

Partial Substantial Completion (SC) for Segments A & B was issued on March 12, 2022, and remaining open items are continuing to be tracked, resolved and monitored. Metro has developed a scorecard for Substantial Completion for Segments C and all items are being tracked and discussed during management meeting between Metro and WSSC.

Progress on the installation and testing is proceeding as follows:

- Finish works are mostly complete at all stations and punch list items and open items in BIM- 360 are continuing to be addressed.
- Retesting (LFAT, SIT-1) are being performed as needed to address discrepancies and troubleshooting findings.
- UG3 tunnel booster fan air flow final test reports were finalized and approved.
- Underground emergency ventilation fans (EVF) trouble shooting of remaining discrepancies issues are tracked in BIM-360, addressed and retested as part of ventilation testing scenarios (EVOP, EGOP, ESOP) are mostly addressed.
- WSSC/LKC subcontractor has completed reprogramming of FACP/HVAC shut down for all the underground stations, completed testing at LPK, MLK and Expo stations, preparing and finalizing test reports.
- SIT-2 of non-SCADA (60% complete): CCTV, Intrusion detection, telephone systems, radio, traction power, TPIS and CTS.
- Continuing with System Integration Testing (SIT-2) of SCADA (76.3% complete): TPIS, intrusion, telephone, elevator/escalator, sump pump, environmental control, roll up grills, gas, traction power, CTS, radio, fire alarm and train control testing from ROC. Focus is made on getting SIT-2 discrepancies addressed.
- Coordination meetings with Rail Operations Center, Metro Operations, SIT-2 and Contractor continue weekly in support of SIT-2 including contractor support during testing.
- Contract P3010 contractor KINKISHARYO INTERNATIONAL, completed onboard vehicle verification testing and is awaiting project-wide access for final verification of final onboard software and vehicle certification.
- Universal Fare Collection System (UFCS) contractor Cubic installation are mostly complete and continuing to work on open items and started local field acceptance testing. Cubic has confirmed communication with ROC and are continuing with LFAT and planning for final programming and activation prior to Revenue Service.
- Systems field walk, verification inspection and punch list process are continuing by locations and subsystems and all items are added to BIM-360 with priority for tracking and resolution. Bi-weekly scorecards are coordinated and discussed during management meetings.
- Coordination of remaining opening items for Segments A & B are continuing to be tracked between WSSC and Metro management in more detail.
- Continued tracking of open items for Segment C with priorities and disputes between WSSC and Metro management for achieving contract substantial completion

Cost and Schedule Summary

Metro Board of Directors action in May 2020 increased the Life-of-Project Budget by \$90 million. The increase is required due to the forecast delay of Substantial Completion to December 2020. The additional funding is required to provide funding for professional services that support the completion of the Project. Detailed cost information is provided later in this report.

WSCC in their March 2022, monthly schedule update reflects a WSCC Systems Substantial Completion forecast date of April 19, 2022. Metro is concerned that the current schedule forecast from WSCC, does not reflect the test reports. There are still discrepancies, testing, retesting activities, test reports and open items (BIM-360) left to be completed by WSCC and inspected by Metro.

WSCC Schedule Metrics – Mainline Contractor

	Original Contract Date	Time Extension (CD)	Current Contract Schedule	Forecast (Contractor)	Variance (CD)
NTP	09/10/13				
Substantial Completion including SIT-1	09/08/18	459	12/11/19	4/19/22	-861

To date, the design and construction changes for WSCC related to base scope represent approximately 14.4% of the contract value which includes 4% funded by other Metro projects using the services of the alignment design-builder Contract C0988. Metro has issued credit change orders which has reduced the percentage of changes per contract value. Metro anticipates future changes initiated by Metro will include “credit” changes.

Key Management Concerns

No. 1: WSCC Construction Schedule
Progress Status/Action

WSCC has submitted March 2022, Monthly Schedule Update which reflects a WSCC Substantial Completion (SIT-1) forecast date of April 19, 2022, and Systems Substantial completion date of April 19, 2022. Metro is concerned that the current schedule forecast from WSCC, could slip due to field issues and reflects slower than planned progress every month without effective mitigation efforts implemented by WSCC. Potential mitigation proposed by WSCC such as increased work crews, double shift, and overtime, has been limited by WSCC or their subcontractors. There are still testing left to be completed by WSCC or their subcontractors. Schedule has been impacted by issues with Emergency Management Panel (EMP) ventilation sequence reprogramming and testing, ATC connectivity system to ROC, SIT-2 testing of Fire Alarm Control Panel (HVAC shut down sequence) that needed to be completed to allow follow-on systems integration tests. The remaining incomplete LFAT’s and SIT-1 are also affecting Metro operations SIT-2 testing progress.

No 2: Remaining Contingency is less than 2% of Total Project Budget. Status/Action

Metro monthly monitors and reports on the drawdown of contingency. In April 2022, there was a contingency drawdown of \$1.4 million which decreased the remaining contingency to \$5.4 million. The remaining contingency is 0.3% of total project current forecast and 9.8% of total project cost-to-go.

No. 3: WSCC Design/Engineering Support during Construction, Installation and Testing Status/Action

There are engineering support activities during construction and testing such as test reports, submittals, re-submittals, requests for information (RFI), NCR's, FLS issues, including new field issues that are impacting the field work and testing progress. The impacts are creating delays and potential inefficiencies to construction, systems work, testing, start-up, commissioning, LFAT, iLFAT and SIT-1. Unresolved existing issues including failed tests (discrepancies) and failed SIT-2 tests with discrepancies requiring investigation, trouble shooting, design support and resolution have affected progress in all areas of the project schedule including systems communication, train control acceptance, EMP system testing, Etc. Issues requiring engineering investigation, analysis, RFI's, and procurement are continuing to affect the work progress in the field. Most of the known issues, including punch list items and discrepancies are put in the BIM-360 (Building Information Modeling 360) for tracking and resolution.

No. 4: WSCC Required Rework and Impact to Follow-on Subcontractors Status/Action

Several areas of work along the alignment could not be completed due to damaged, incomplete and missing components. This has impacted and slowed down progress on vehicle testing, and various stations communication systems work such as emergency fans, Train Control connectivity to ROC, EMP ventilation sequence reprogramming and fire alarm systems testing. There are still new issues being identified, as SIT-2 testing continues, which are impacting the completion of SIT-2 testing. The impact of these issues has caused schedule slippage, inefficiencies, and delays. Metro is also concerned that WSCC is not applying the necessary field force on a timely manner to complete the discrepancies and remaining open items for timely completion.

No. 5: 3rd Party Coordination and Impact on follow-up activities. Status/Action

Multiple areas of work along the alignment require close coordination with 3rd Party Agencies. Metro is working with WSCC and resolving issues as quickly as possible. There are no major issues remaining and meeting are setup as needed. Issues related to permanent power energization have been resolved and utility company equipment has been energized. Permanent distributed power is complete and temporary power is removed from all locations. This item is not considered a major concern at this time.

No. 6: COVID-19 Impact on progress of the Project

Status/Action

Construction continues as an essential service under guidelines set forth by the City of Los Angeles. Safety protocols are continued to be required and monitored. Preventive measures have been implemented and impact of COVID-19 on project progress is being monitored by WSCC and Metro. WSCC continues to submit notifications of potential impacts to work for any cases on the project. Each impact claim will be assessed consistent with Contract terms. The number of COVID-19 cases are trending down, with only a few isolated cases reported since January 2022. Metro has developed and implemented vaccination requirements and continues to update as conditions change. COVID-19 is not considered a major risk to project schedule at this time.

No. 7: MSE Wall 202L Settlement and Movement Status/Action

Construction activities around MSE Wall 202L movement were suspended pending detailed analysis of the cause of movement and mitigation measures. The train control and vehicle testing were impacted by MSE Wall-202L movement which impacted any vehicle movement near the wall. The jet grouting repair work was completed in February 2021 and the restoration of AC-cap, ballast, track work, train control, and OCS registration were also completed in March 2021. Train testing was allowed to resume in March 2021. WSCC is continuing to monitor the wall for any changes or movement (No issues reported). This item is not considered a major concern at this time.

No. 8: Emergency Management Panel (EMP) Display Omissions by WSCC Status/Action

Several key components of EMP screen display of emergency hatch alarm and ventilation scenarios were omitted by WSCC. Metro and WSCC have worked together and have resolved all the safety concerns. Coordination efforts and development of required EMP screens are resolved expeditiously by redlining the drawings. Loading of the program is complete and EMP testing is mostly complete. Metro and WSCC have resolved EMP screen issues and proceeding with SIT-1 testing at this time. Other EMP ventilation sequence reprogramming is an issue that requires reprogramming and testing for the three underground stations and currently shown as the most critical element of the project. WSCC/LKC and their subcontractor have mostly completed reprogramming, retesting from south to north and working on discrepancies. This item is not considered a concern at this time.

No. 9: Progress Rate of Testing for Local Factory Acceptance and System Integration Status/Action

The remaining required WSCC testing effort including LFAT, Commissioning and SIT-1 is critical and considered a significant part of the remaining scope of work. The actual production rate of successful testing successful testing did not support WSCC's Monthly Schedule Updates or the weekly projections. The required testing effort includes LFAT and SIT-1 are critical part of the schedule and substantial completion milestones. The actual production rate of testing needs to be maintained to support WSCC's Monthly Schedule Update and their projected production plan. There is no contingency plan in place for addressing issues, troubleshooting, required repairs, retesting, and processing of test reports, etc. Coordination

between Metro systems and WSCC are continuing to track the progress of testing (LFAT and SIT-1) including the tests with discrepancies requiring retesting. Test report progress is improving but remains significantly lagging behind testing. Test reports are required for acceptance of completed tests.

No. 9: OCS balance weight anchor stainless steel rope damage and fraying
Status/Action

During the field inspection and joint walk between Metro and WSCC it was discovered that Overhead Catenary System (OCS) balance weight anchor ropes were damaged at various degrees. After evaluation it was determined that the OCS system needed to be evaluated and engineering solution provided to determine the cause and development of a permanent solution. All the OCS portion of the project (above grade track area) was put on hold (potentially unsafe) for operating trains at any speed and all vehicle testing was suspended in above grade portion of the project. WSCC/LKC and their specialty subcontractors identified the cause and have developed potential permanent solution that was approved by HNTB (Engineer of Record) and accepted by Metro engineering. LKC has replaced the ropes and completed implementation of the final solution. This issue has caused delays, impacting completion of P3010 vehicle software verification, train control integration testing and project substantial completion. However, this item is not considered a major concern at this time.

PROJECT CONSTRUCTION PHOTOS



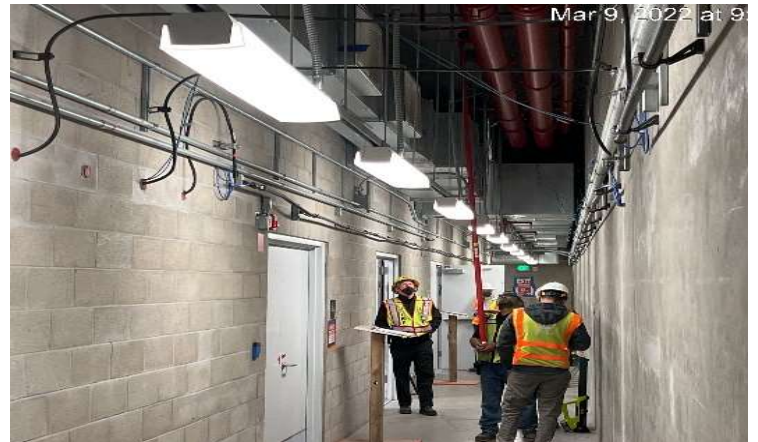
AVIATION STATION – WSCC removing steel plates from job site at Aviation/118th



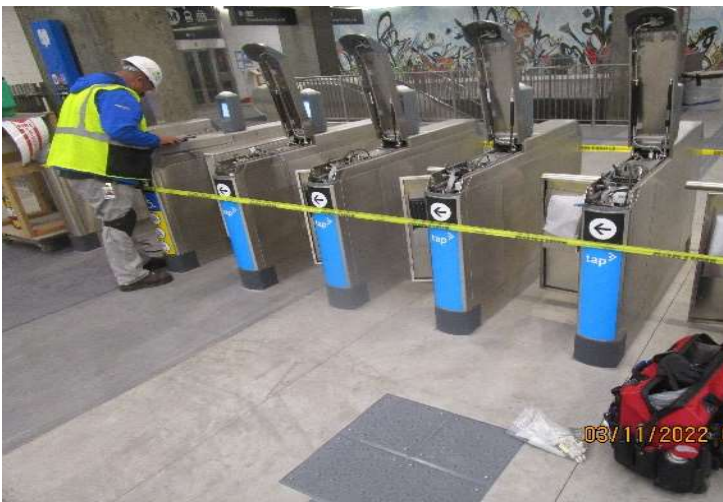
EXPO STATION – Applying anti-graffiti shield to the main entrance canopy columns at the plaza.



PARK MESA – Continue excavating soil in preparation for asphalt placement at the 67th Yard.



LEIMERT PARK STATION – Performing fire life safety testing of smoke/fire alarms throughout the entire station.



MLK STATION – Performing configuration programming and software testing to the ticket vending machines and fare gate system at the Paid & Free Area.



HYDE PARK STATION – Performing water pressure testing for the roof drains at the south pavilion.

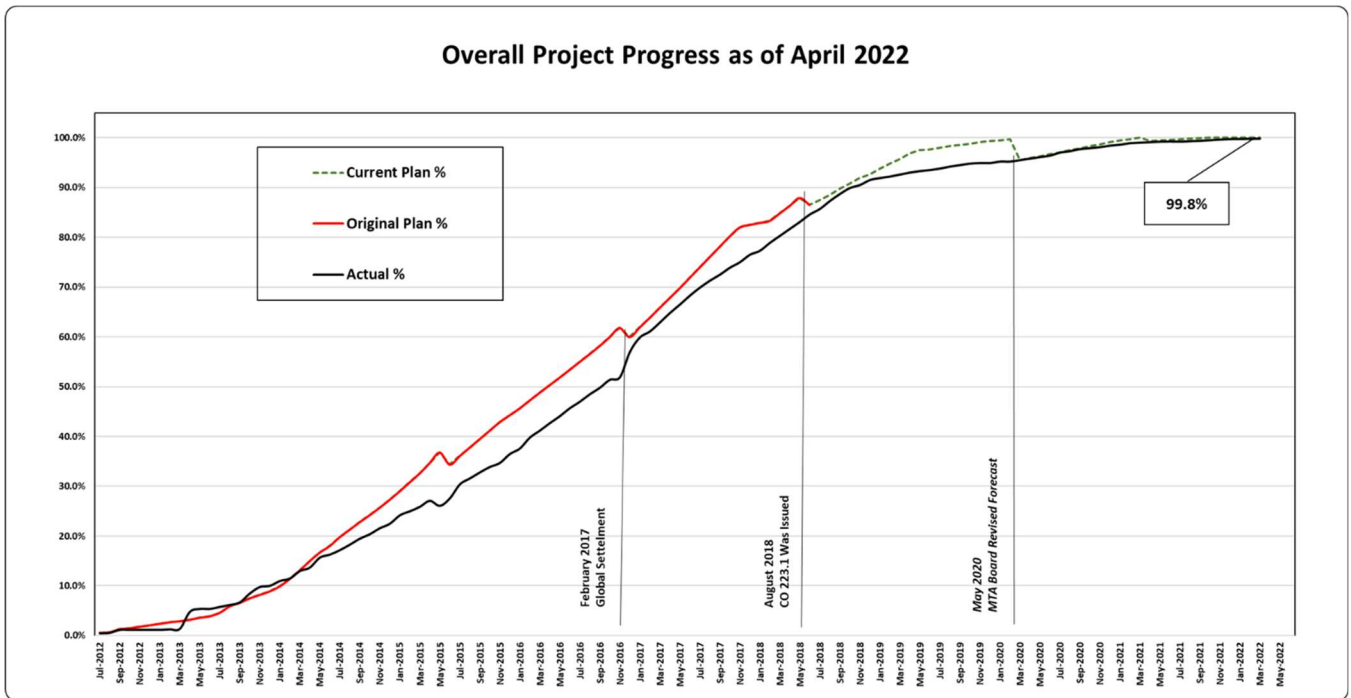
Project Summary Schedule - (WSCC Forecast)

Activity Name	Crenshaw/LAX Level 1 Schedule												MASTER SCHEDULE				
	Qtr 4, 2021	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022
Crenshaw/LAX Transit Corridor - Master Schedule	01-Oct-22													01-Oct-22			
Milestones & Key Dates																	
Program Elements																	
865512 - Crenshaw/LAX																	
C0990 - Advanced Utility Relocation																	
C0992 - Concrete Ties and Assembly Items																	
C0992A - Running Rail & Bumping Post																	
C0988 - Pre-Construction Crenshaw/LAX																	
C0988 - Construction & Installation																	
Sitework																	
Stations																	
Guideway & Track																	
System-Wide Components																	
Systems																	
Testing																	
Substantial Completion (SIT-1)																	
C0988 Substantial Completion																	
Start Up																	
SIT Phase II Tests/SCADA End-to-End - (PC-1200)																	
Pre - Revenue Operations																	
Pre - Revenue Operations																	
Revenue Service																	













Progress Summary


	Status	Change from Last Period	Comment
Current Revenue Service:	5/24/21	NA	
Forecast Revenue Service:	10/1/22	-861 days	Forecast by Contractor
Final Design Progress:			
Contract C0988	100%	0.01%	Design Completed. Design Services During Construction Continues
Contract C0990	100%	None	Design Completed
Contract C0991	100%	None	Design Completed
Contract C0992	100%	None	Design Completed
Contract C0992A	100%	None	Design Completed
Construction Contracts Progress:			
Contract C0988	99.9%	0.02%	Behind Schedule (Adjusted)
Contract C0990	100%	None	Completed
Contract C0991	100%	None	Completed
Contract C0992	100%	None	Completed
Contract C0992A	100%	None	Completed


Planned vs. Actual Progress





Key Milestones Six Months Look-Ahead


	Milestone Date	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Auto Routing Segment A, B and C	3/3/22 A							
Train Control - Connectivity to ROC *	3/11/22 A							
WSSC Systems Substantial Completion (SIT-1) Segment A & B *	3/12/22 A							
Headway Verification	3/18/22 A							
WSSC Systems Completion (SIT-1) Segment C & End-End*	05/11/22							
WSSC Substantial Completion (Non-Systems) *	05/11/22							
Grade Crossing Testing with CPUC *	05/20/22							
Metro Start Emergency Drills	05/20/22							
Resolve all FLS tracking list	05/27/22							
P3010 Vehicle Final Onboard Verification	06/03/22							
Metro Complete System Integration Phase II (SIT-2)	08/01/22							
Metro Start Pre-revenue Service (Pending ATC SIT-1 & SIT-2) *	08/02/22							


 MTA Staff


 Other Agencies


 MTA Board Action

 C0991 D/B Contractor

 FTA (Federal Transit Administration)

 Design Consultant

 Utility Company

 C0988 D/B Contractor

A following date is actual and completed * New Date

Major Equipment Delivery Status

Metro Supplied Equipment

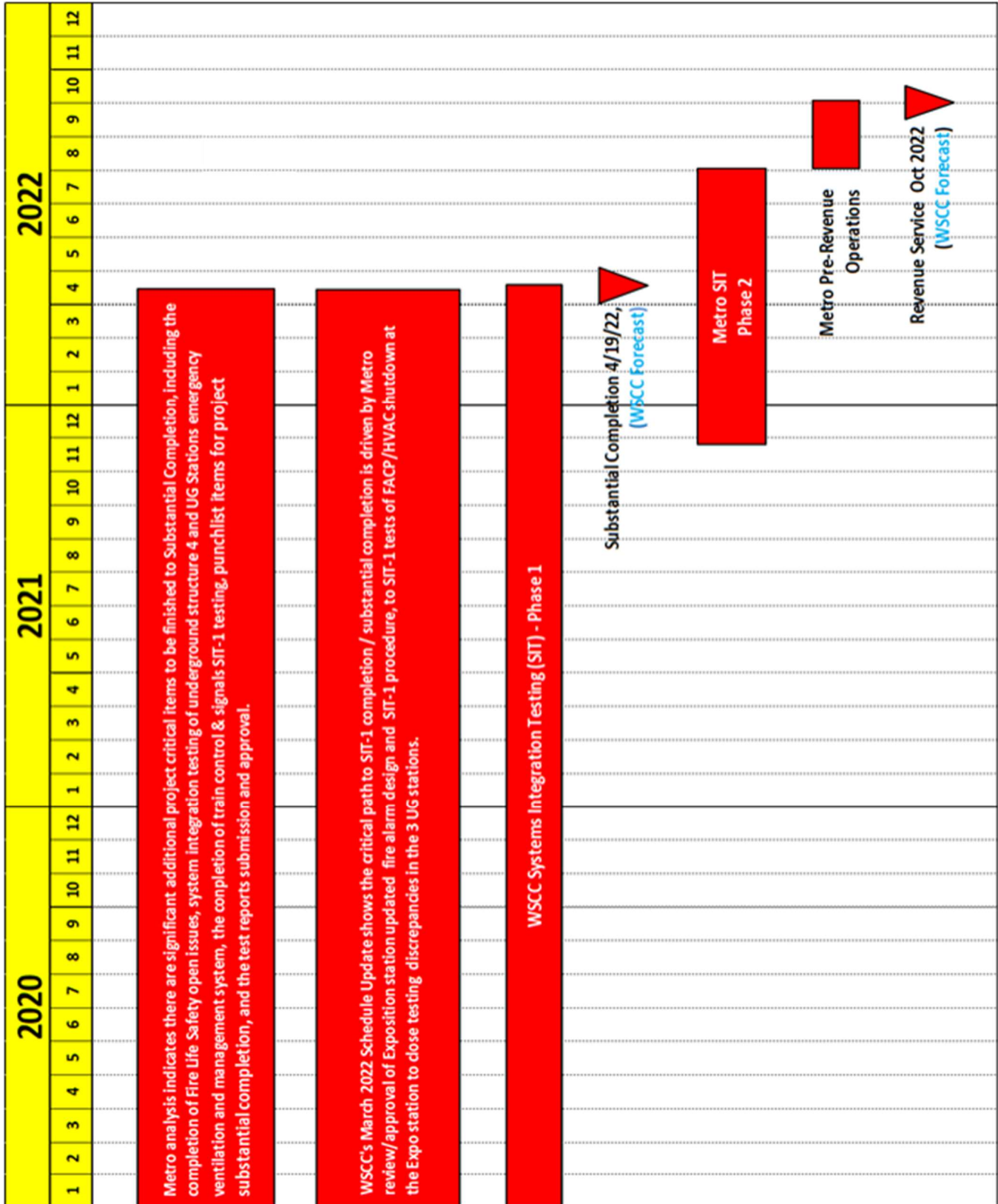
Equipment	Initial Procurement	Scheduled Delivery	Scheduled Installation
LRT Vehicles	(NTP) 8/20/12 A	Option 1 9/1/17 A	N/A
Ticket Vending Machines and Equipment	1/30/18 A	2/28/19 A (Warehoused)	Installed, Activate Prior to RSD

Mainline Contractor Equipment Delivery Requirements

Activity Name	Early Finish	Need Date
Remaining procurements items are replacement due to damage, quality issues are tracked separately	As needed	NA
As areas of project (Segments A & B) are turned over to Metro operations, equipment warranties, maintenance are being coordinated.	As needed	NA

* All the replacement items are tracked in Building Information System (BIM-360).

Critical Path - reflects "Current WSCC Forecast"



Metro analysis indicates there are significant additional project critical items to be finished to Substantial Completion, including the completion of Fire Life Safety open issues, system integration testing of underground structure 4 and UG Stations emergency ventilation and management system, the completion of train control & signals SIT-1 testing, punchlist items for project substantial completion, and the test reports submission and approval.

WSCC's March 2022 Schedule Update shows the critical path to SIT-1 completion / substantial completion is driven by Metro review/approval of Exposition station updated fire alarm design and SIT-1 procedure, to SIT-1 tests of FACP/HVAC shutdown at the Expo station to close testing discrepancies in the 3 UG stations.

WSCC Systems Integration Testing (SIT) - Phase 1

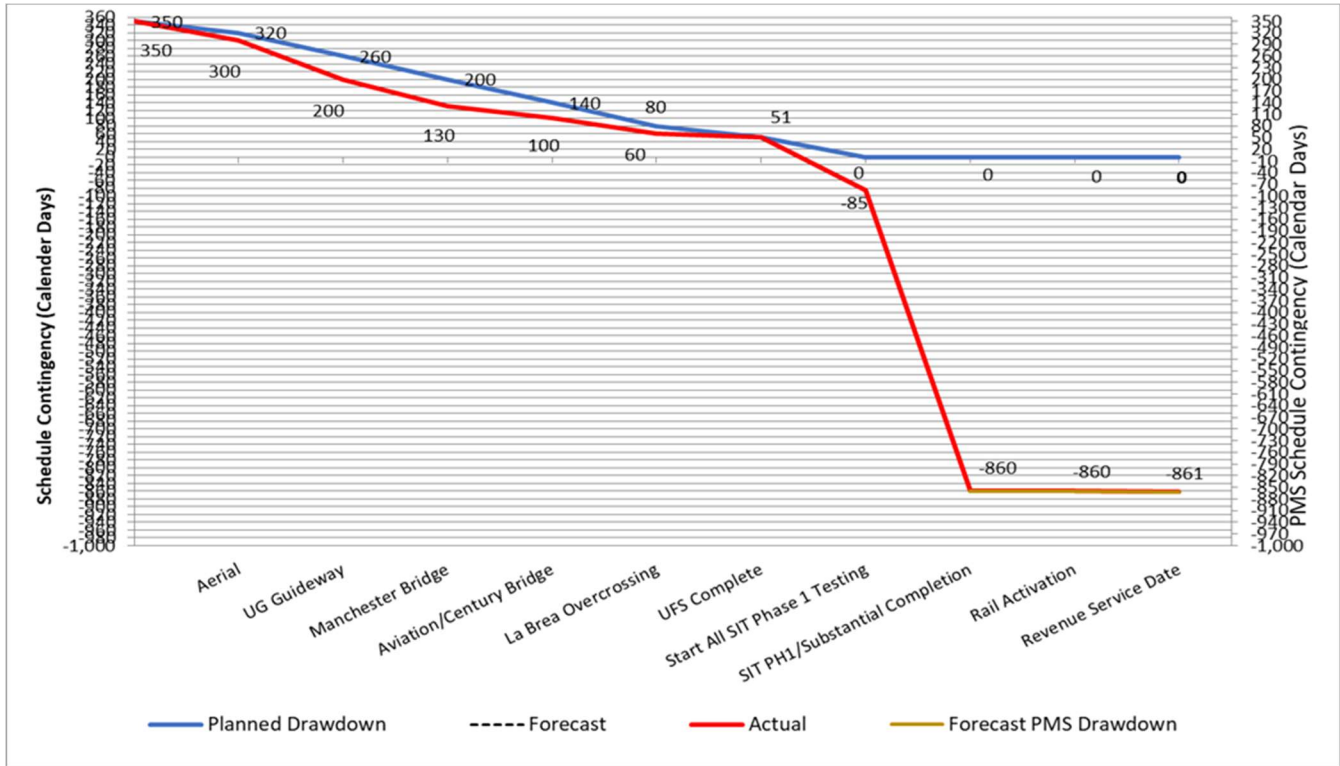
Substantial Completion 4/19/22,
 (WSCC Forecast)

Metro SIT
 Phase 2

Metro Pre-Revenue
 Operations

Revenue Service Oct 2022
 (WSCC Forecast)

Project Schedule Contingency Drawdown



Metro issued in August 2018 a non-compensable unilateral change order (223.1) to WSCC to extend their substantial completion milestone to December 11, 2019. Thus, performance measurement is now tracked against this date.

Non-Contract milestone “Substantial Completion Segments A & B”, certification for partial Segments A & B was issued on March 12, 2022.

Risk Management Narrative

Summary of Risks

Within this reporting period no risk was closed. No new risk was added. There is a total of eight (8) risks remaining to be managed in the next reporting period. Of the Eight (8) risks, four (4) are scored as high (10 to 20 risk rating), three (3) as medium (4 to 9 risk rating), and one (1) as low (Less than 4 risk rating).

Top Risks: The table below shows the top project risks:

Risk ID	SCC	Risk Description	Risk Rating
359	80	Extended Overhead or productivity loss claims exposure not covered by cost impacts in individual risks. REA claim was received on 8/19/2021. An amendment to the REA claim was received on 12/31/2021 and is being evaluated by the claim team.	20
379	20	LFAT, Procedures (Done) and Testing Schedule and Rate of Testing Progress (Ongoing)	13
380	20	SIT-1, Procedures (Done) and Testing Schedule and Rate of Testing Progress (Ongoing)	13
362	50	Schedule activities that are critical to completion. OCR@UG1, UG3 and UG4 (Done), TPSS / Auxiliary Power Energization (Done), Mechanical tests HVAC/Emergency Fans / Booster Fans testing (Done). Communications system testing: Radio, PA, CCTV, Telephone, TPIS, IDS (Done), EVF (EGOP, ESOP, EVOP) (ongoing), Fire Alarm control panel Emergency Management discrepancies (Done). Train Control Connectivity to ROC is established, and verified (Done), Remaining train control SIT-1 including CPUC demonstration (ongoing). FLS issues 881 out of 937 are closed (95%).	12

Newly Identified Risks: There are no new items added to the risk register.

Closed Risks: No risk is closed in this period.

Risk Score Changes: Six risk scores are changed this period.

Actions in Next Reporting Cycle: Continuous efforts in Risk Management will be made through the following actions: Update the project risk register.

PROJECT COST Project Cost Analysis

SCC CODE	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
10	GUIDEWAYS	471,335,000	-	417,788,306	-	416,388,816	95,090	415,563,893	-	416,388,817	(1,399,489)
20	STATIONS	153,906,000	-	308,067,041	-	306,205,648	17,653	304,961,985	-	306,205,648	(1,861,393)
30	SUPPORT FACILITIES SOUTHWEST YARD	66,673,000	-	66,919,206	-	66,610,432	-	66,560,432	-	66,634,870	(284,336)
40	SITWORK/SPECIAL CONDITIONS	235,576,000	-	404,953,359	(753,977)	417,911,841	681,248	403,070,058	32,900	418,796,394	13,843,035
50	SYSTEMS	125,132,000	-	175,073,936	250,000	172,846,477	132,048	165,805,258	-	175,101,300	27,364
	CONSTRUCTION SUBTOTAL (10-50)	1,052,622,000	-	1,372,801,849	(503,977)	1,379,963,214	926,038	1,355,961,627	32,900	1,383,127,029	10,325,180
60	RIGHT-OF-WAY	132,294,000	-	137,726,295	(122,253)	140,651,846	21,525	138,767,177	-	140,791,995	3,065,700
70	LRT VEHICLES	87,780,000	-	83,571,544	(13)	82,158,061	-	81,837,755	-	83,571,544	-
80	PROFESSIONAL SERVICES	273,147,000	-	501,844,251	294,800	503,322,891	3,268,090	484,824,725	1,332,812	509,535,003	7,690,752
	SUBTOTAL (10-80)	1,545,843,000	-	2,095,943,938	(331,443)	2,106,096,013	4,215,654	2,061,391,283	1,365,712	2,117,025,570	21,081,632
90	UNALLOCATED CONTINGENCY	177,157,000	-	26,507,031	-	-	-	-	(1,365,712)	5,425,399	(21,081,632)
100	FINANCE CHARGES	-	-	-	-	-	-	-	-	-	-
	TOTAL PROJECT 865512 (10-90)	1,723,000,000	-	2,122,450,969	(331,443)	2,106,096,013	4,215,654	2,061,391,283	0	2,122,450,969	(0)
	ENVIRONMENTAL/PLANNING - 405512	5,526,150	-	5,526,150	-	5,526,150	-	5,526,150	-	5,526,150	-
	ENVIRONMENTAL/PLANNING - 465512	20,473,850	-	20,022,881	-	20,022,881	-	20,022,881	-	20,022,881	-
	TOTAL PROJECTS 405512 & 465512 (ENV / PLAN'G)	26,000,000	-	25,549,031	-	25,549,031	-	25,549,031	-	25,549,031	-
	TOTAL PROJECTS 405512, 465512 & 865512	1,749,000,000	-	2,148,000,000	(331,443)	2,131,645,043	4,215,654	2,086,940,314	0	2,148,000,000	(0)

1. Expenditures are Cumulative through April 29, 2022.

The project numbers 405512, 465512, 865512 and 860003 are internal to Metro and are used to differentiate between environmental/planning and construction.

Original Budget

The Board in October 2011 established the Life-of-Project (LOP) Original Budget of \$1,749 million for the Crenshaw/LAX Transit Project.

Current Budget

In May 2020, the Board amended the LOP budget by \$90 million, increasing the Total LOP Current Budget to \$2,148 million. This action was necessary due to the extension of the Project's Substantial Completion date to December 2020 and revenue service to commence in 2021. The LOP budget was amended to provide additional funding for professional services that are required to support the completion of the Project. The required support includes Metro staff and professional services consultants who provide various services to assist in the management and oversight of the Project.

Commitments

Commitments decreased by \$0.3 million this period to \$2,131.6 million which represents 99.2% of the current budget. The total decrease is associated with professional services commitments due to expenditure transfers.

Expenditures

Expenditures increased by \$4.2 million this period to \$2,086.9 million which represents 97.2% of the current budget. The total increase is for costs associated with design-build Contract C0988 Crenshaw/LAX Transit Corridor and professional services.

Current Forecast

The total current forecast remains the same as the total current budget.

**Crenshaw/LAX Transit Project
Monthly Project Status Report**

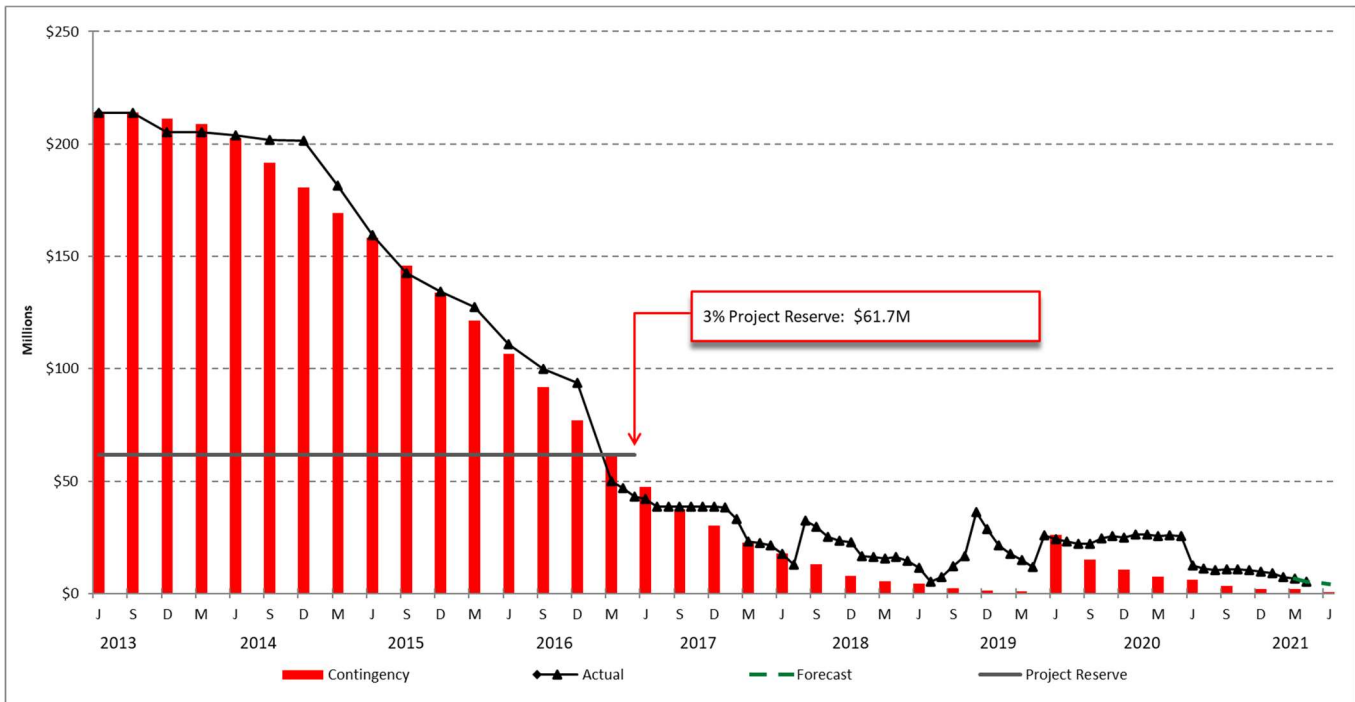
April 2022

Non-Crenshaw/LAX Transit Project Funded Scope of Work

The costs shown in the table below are not part of Crenshaw/LAX Transit Project costs but are funded by other Metro projects using the services of the alignment design-builder (Contract C0988).

C0988 NON-CRENSHAW/LAX TRANSIT PROJECT FUNDED SCOPE OF WORK										
DESCRIPTION	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST VARIANCE	
	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE		
405556 SYSTEMWIDE TRANSIT PLANNING	-	320,035	-	320,035	-	320,035	-	320,035	-	
210090/93 FARE GATE PROJECT	-	4,891,226	-	4,391,226	-	4,391,226	-	4,391,226	(500,000)	
210152 CRENSHAW/LAX BUS TRANSFER FACILITY	-	2,200,000	-	2,200,000	-	2,200,000	-	2,200,000	-	
460303 AIRPORT METRO CONNECTOR	-	37,914,465	-	37,366,770	-	37,366,770	-	37,914,465	-	
500013 C/LAX/LAWA SCOPE OF WORK	-	1,114,613	-	1,114,613	-	1,114,613	-	1,114,613	-	
405522 HIGHWAY PLANNING	-	105,457,668	-	105,457,668	-	105,402,636	-	105,457,668	-	
TOTAL	-	151,898,007	-	150,850,312	-	150,795,281	-	151,398,007	(500,000)	

Cost Contingency Drawdown



Cost Contingency Drawdown Analysis

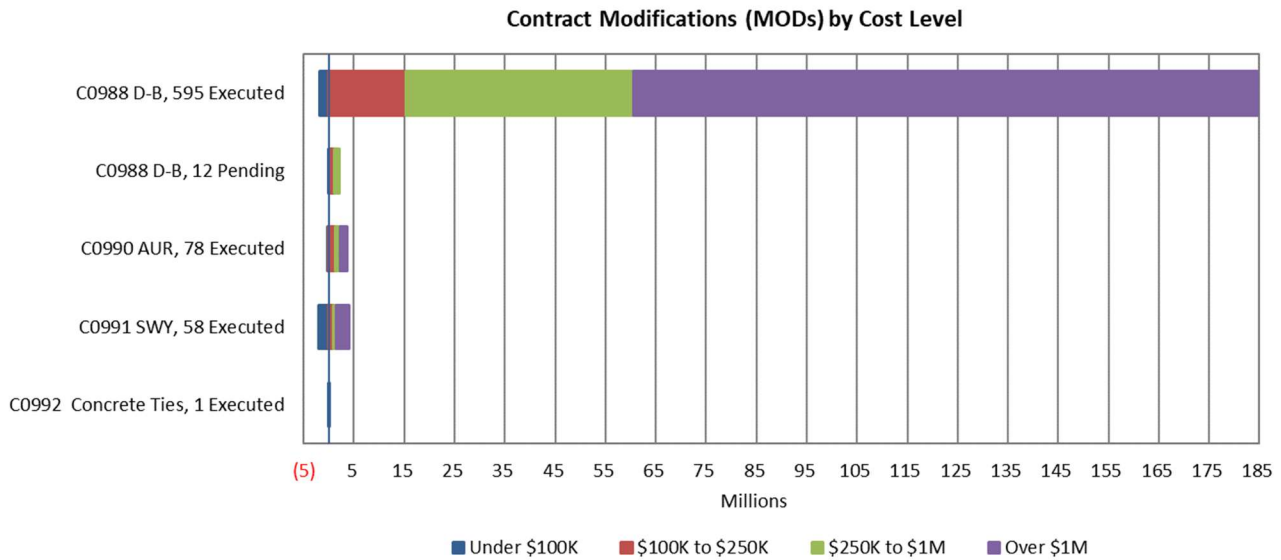
In May 2020, the Board amended the LOP budget by \$90 million, increasing the Total LOP Current Budget to \$2,148 million. The increase included \$14.2 million for additional unallocated contingency. The drawdown plan is correlated to anticipate risk trends and measures drawdown moving forward.

Included in the project contingency drawdown is a 3% project reserve threshold. The Board is to be notified when it becomes necessary to drawdown contingency below the project reserve line to cover project costs. This notification request was adopted by the Metro Board of Directors in September 2012. In February 2017, the project contingency drawdown curve went below the 3% project reserve level and the Board was notified.

This month, \$1,365,712 was drawn down from contingency. The remaining total project contingency (allocated and unallocated) is \$5,425,399.

PROJECT COST CONTINGENCY (through 29-April-2022)					
UNITS IN DOLLARS					
	Original Contingency	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)
Unallocated Contingency	173,500,000	(166,708,890)	(1,365,712)	(168,074,601)	5,425,399
Allocated Contingency	40,366,792	(40,366,792)	-	(40,366,792)	-
Total Contingency	213,866,792	(207,075,682)	(1,365,712)	(208,441,393)	5,425,399

Summary of Contract Modifications



	C0988	C0990	C0991	C0992	Total
	595 Executed	78 Executed	58 Executed	1 Executed	
Under \$100K	\$ (1,863,327)	\$ (70,251)	\$ (1,918,854)	\$ 81,738	\$ (3,770,695)
\$100k to \$250K	\$ 15,450,085	\$ 1,280,184	\$ 875,202	\$ -	\$ 17,605,471
\$250K to \$1M	\$ 45,152,766	\$ 984,662	\$ 590,334	\$ -	\$ 46,727,763
Over \$1M	\$ 124,014,264	\$ 1,417,202	\$ 2,590,000	\$ -	\$ 128,021,466
Total Contract MODs	\$ 182,753,788	\$ 3,611,797	\$ 2,136,682	\$ 81,738	\$ 188,584,004
Contract Award Amount	\$ 1,272,632,356	\$ 7,827,500	\$ 172,312,695	\$ 2,161,297	\$ 1,454,933,848
% of Contract MODs	14.36%	46.14%	1.24%	3.78%	12.96%

Five hundred and ninety-three (595) changes with a total value of \$182.85 million have been executed since the award of Contract C0988. There are an additional five (5) changes with a total value of \$1.37 million pending the administrative approval process.

Seventy-eight (78) changes with a total value of \$3.61 million have been executed for the completed Contract C0990.

Fifty-eight (58) changes with a total value of \$2.14 million have been executed since the award of Contract C0991.

One (1) change with a value of \$81,738 was executed for the completed Contract C0992.

Percent of Contract modifications equals the total Change modifications divided by the Contract Award amount

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build
 (Reported Data as of March 2022)

- **DBE Goal (Design)** – A numerically expressed percentage of funds apportioned to Design Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area. **20.00%**

- **Current DBE Commitment** - Contract DBE Committed Dollars divided by Total Contract Value for Design or Construction. **\$29,700,639 (20.00%)**

- **Current DBE Participation - Total amount** paid to date to DBEs divided by the amount paid to date to Prime. **\$30,338,923 (20.57%)**

Twenty-Six (26) Design subcontractors have been identified to-date

- **DBE Goal (Construction)** – A numerically expressed percentage of funds apportioned to Construction Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area. **20.00%**

- **DBE Commitment** - Contract commitment divided by current contract value for Construction **\$259,865,769 (20.00%)**

- **Current DBE Commitment** - Actual commitments as Construction work is awarded **\$315,629,503 (24.29%)**

- **Current DBE Participation - Total amount** paid to date to DBEs divided by the amount paid to date to Prime (\$1,281,201,963) **\$365,567,861 (28.69%)**

Three hundred eighty-two (382) Construction subcontractors have been identified to-date

PROJECT LABOR AGREEMENTS (PLA)

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

(Reported Data as of March 2022)

- **Targeted Worker Goal** – Construction work to be performed by residents from Economically Disadvantaged Area of LA County **40.00%**
- **Targeted Worker Current Attainment** **60.07%**
- **Apprentice Worker Goal** – Construction work to be performed by Apprentices **20.00%**
- **Apprentice Worker Current Attainment** **23.54%**
- **Disadvantaged Worker Goal** – Construction work to be performed by Disadvantaged Workers whose primary place of residence is within LA County **10.00%**
- **Disadvantaged Worker Current Attainment** **10.31%**

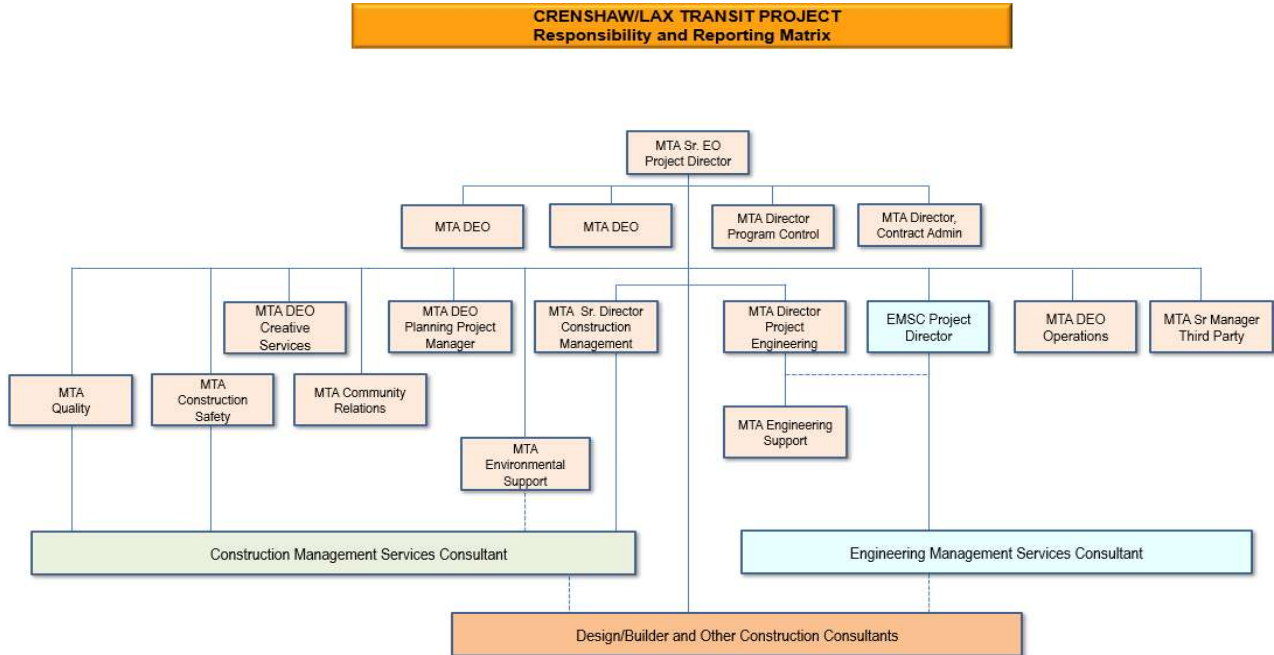
FINANCIAL/GRANTS

CRENSHAW \$M									
APRIL 2022									
STATUS OF FUNDS BY SOURCE									
SOURCE	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
	ORIGINAL BUDGET	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS \$	%	EXPENDITURES \$	%	BILLED TO FUNDING SOURCE \$	%
	FEDERAL - CMAQ	68.200	137.100	137.100	137.100	100%	137.100	100%	137.100
FEDERAL - SECTION 5309 BUS CAPITAL	8.600	8.563	8.563	8.563	100%	8.563	100%	8.563	100%
FEDERAL - REGIONAL STP	20.000	103.307	103.307	103.307	100%	103.307	100%	103.307	100%
FEDERAL - ALTERNATIVE ANALYSIS	1.200	1.200	1.200	1.200	100%	1.200	100%	1.200	100%
FEDERAL - TIGER II	-	13.904	13.904	13.904	100%	13.904	100%	13.904	100%
STATE REGIONAL IMPROVEMENT PROG	36.522	36.600	36.600	36.600	100%	36.600	100%	36.600	100%
STATE PPM	0.178	0.179	0.179	0.178	100%	0.178	100%	0.178	100%
STATE PROP 1 B PTMISEA	201.200	128.950	128.950	128.950	100%	128.950	100%	128.950	100%
STATE PROP 1 B LOCAL PARTNERSHIP PROGRA	-	49.529	49.529	49.529	100%	49.529	100%	49.529	100%
MEASURE R - TIFIA LOAN	545.900	545.900	545.900	545.900	100%	545.900	100%	545.900	100%
MEASURE R 35%	661.100	245.600	245.600	432.240	176%	432.240	176%	432.240	176%
CITY CONTRIBUTION	52.400	101.707	101.707	101.707	100%	82.528	81%	80.707	79%
GENERAL FUNDS		54.300	54.300	54.300	100%	54.300	100%	54.300	100%
MISC. REVENUE		1.700	1.700	1.700	100%	1.700	100%		0%
PROPOSITION C 25% HIGHWAY	148.900	454.562	454.562	454.562	100%	430.891	95%	430.891	95%
PROPOSITION C 40% DISCRETIONARY	-	0.000	0.000	-	-	-	0%	-	0%
PROPOSITION A 35% RAIL CAPITAL	4.800	209.700	209.700	6.705	3%	4.850	2%	4.850	2%
MEASURE M 35%		55.200	55.200	55.200	100%	55.200	100%	55.200	100%
TOTAL	1,749.000	2,148.000	2,148.000	2,131.645	99%	2,086.940	97%	2,083.419	97%

- NOTES:
- 1 EXPENDITURES ARE CUMULATIVE THROUGH APRIL 30, 2022
 - 2 TOTAL NEW LOP APPROVED IN MAY 2020 IS \$2.148M.
 - 3 ORIGINAL BUDGET BASED ON BOARD APPROVED OCTOBER 2011 FUNDING/EXPENDITURE PLAN.
 - 4 BILLED AMOUNT TRANSFER FROM MR TO PA PENDING

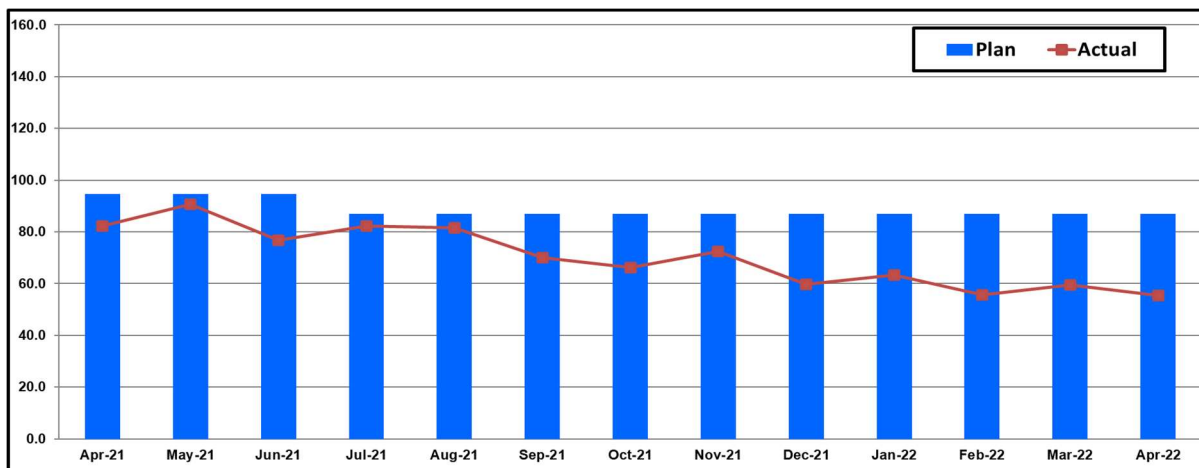
PROJECT ORGANIZATION AND STAFFING

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

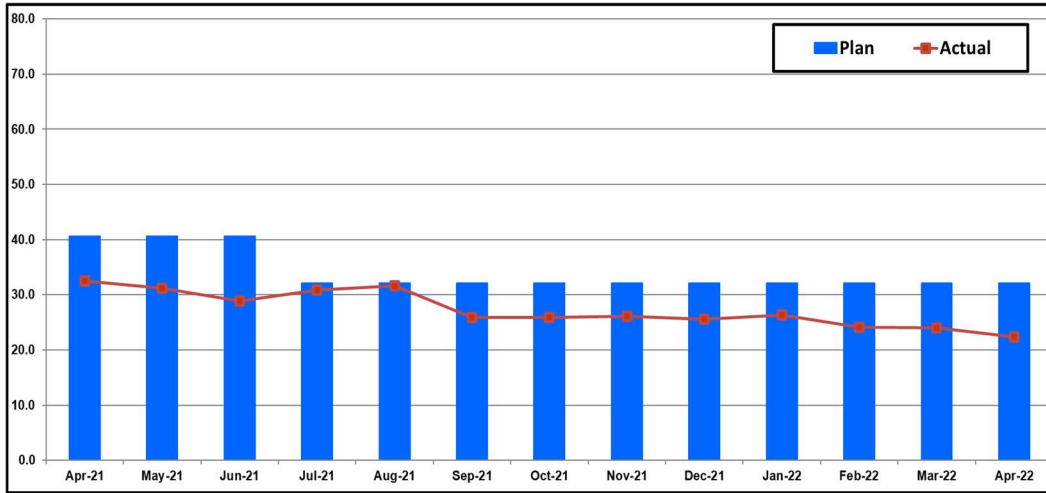


The project staffing charts have been updated with a revised FY22 staffing plan. The overall FY22 Total Project Staffing Plan averages 86.8 Full Time Equivalent (FTEs) per month consisting of 32.1 for Metro Agency staff, 44.5 for Construction Management Support Services Consultant and 10.2 for Design and Engineering Support Services Consulting staff.

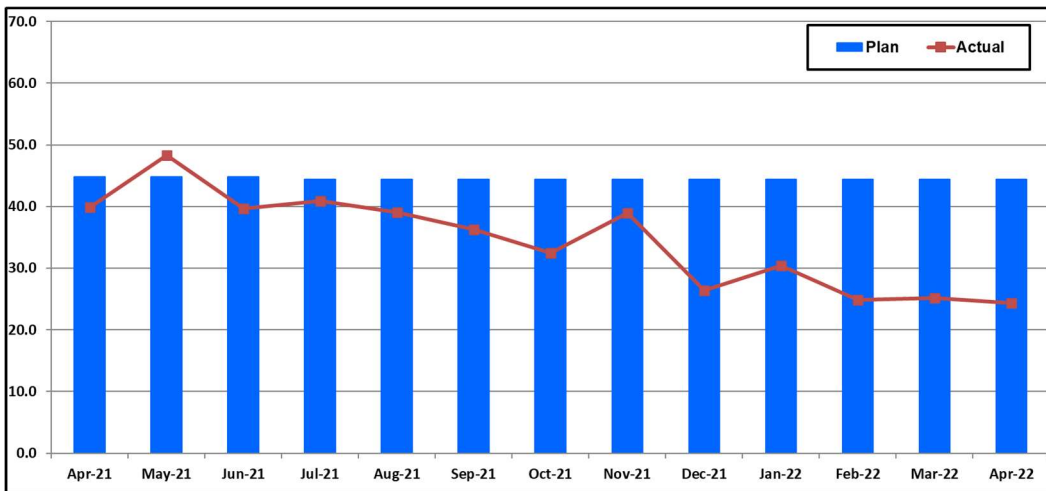
For April 2022, total project staffing were 55.3 FTEs for the month consisting of 22.4 FTEs for Metro’s project administration staff, 24.3 FTEs for Construction Management Support Services Consultant and 8.6 FTEs for Design and Engineering Support Services Consulting staff.



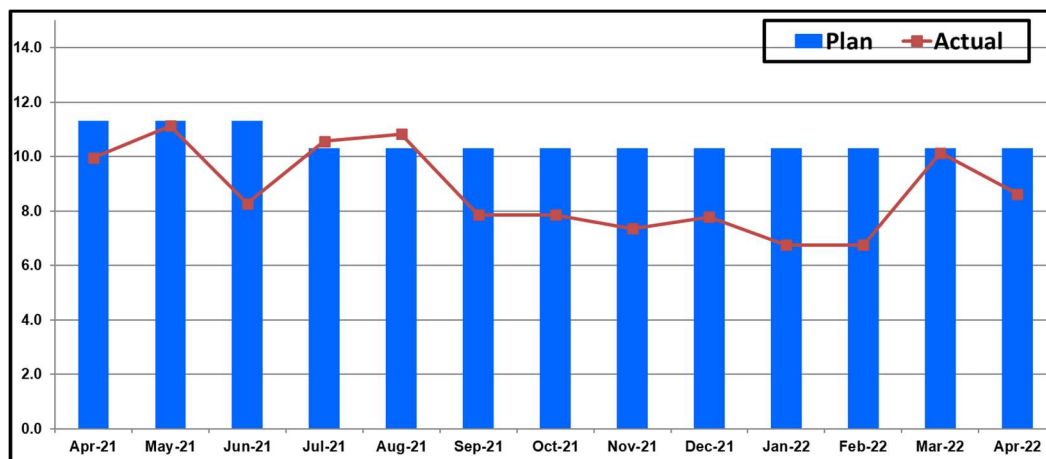
Metro Staff



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

- There is 1 active condemnation.
- There are 3 active relocation cases with final relocation claims pending.
- Metro is working on initiating process for Street Vacations / Dedications.

QUALITY ASSURANCE

- Attended weekly Quality Team Meetings with WSCC Lead Quality personnel.
- Obtained weekly update for items related to City of Los Angeles Bureau of Contract Administration (ConAd).
- WSCC Quality issued zero (0) Nonconformance Report (NCR) during this period.
- WSCC Quality continued project walks and BIM 360 process with Metro during this month.
- No new CWP and Metro Readiness Review meeting discussions were conducted during this month.
- Metro Quality participated in Internal Project Review Weekly Meetings.

ENVIRONMENTAL

- Noise and vibration monitoring by WSCC concluded in July 2021. There were no Metro noise and vibration spot checks during this period.
- SWPPP inspections of all project areas were conducted weekly by WSCC and spot checks by Metro to observe site conditions and report on the performance of stormwater protection Best Management Practices (BMPs) and overall housekeeping.
- There were no qualifying rain events during the reporting period.
- No fugitive dust complaints were received during the reporting period.
- EMS and Environmental Compliance Progress meetings were held during this reporting period on 4/7/2022 and 4/21/2022.
- The Project team is working closely with WSCC to file a Notice of Termination (NOT) for the SWPPP for this Project.

CONSTRUCTION/COMMUNITY RELATIONS

- Ongoing outreach to stakeholders about the implementation of the Metro Photo Enforcement Program along Crenshaw Bl at intersections with at-grade crossings.
- Planning for key stakeholder briefings, Community Leadership Council meeting and Community Construction Update meetings.
- Planning and coordination with Metro Operations for Line opening community activities.
- Continued working with WSCC and the City of Los Angeles to minimize the impacts of lane closures along the Crenshaw/LAX Transit Project alignment.
- Continued outreach to area stakeholders including local businesses and residents along the Project alignment, the LAX area regarding ongoing construction activities, mitigation measures and systems and train testing.
- Ongoing coordination and partnership with first responders and city staff to address issues with homeless encampments, traffic plans and street closures.

CREATIVE SERVICES

- Review and responded to Art Program and Signage closeout submittals.
- Led Art and Signage-related coordination with Catch-All Contractor.
- Interim and permanent service plan wayfinding signage coordination.
- Led coordination with arts and cultural community stakeholders.
- Facilitate artist-led community engagement.
- Led the selection process for the Youth Artist Pin Contest.

SAFETY AND SECURITY

- Conducted Monthly All Hands Safety & Security walk/meeting with WSCC at Vernon Station Box and Alignment on Thursday **04/28/2022** and the following topics were discussed- Self Rescuers are still required at all UG Station Boxes, COVID- 19 reporting procedures and protocols, thefts along the alignment, Track Allocation Procedures, Substantial completion, Right of Way and Train Movement and preparation for Safety Week **2022**.
- Participated in WSCC's daily briefings regarding lessons learned, participated in the weekly Monday Safety huddles/Safety briefings at EXPO, MLK and VERNON stations including, weekly progress/scheduled meetings where we discussed safety related issues.
- Participated in the 10:00 am Monday and Wednesday Internal Project Review conference call with Sameh Ghaly.
- Participated in the weekly owners 9:00 am Tuesday scheduled progress meetings.
- Participated in the weekly scheduled 7:00 am Wednesday corporate safety conference call to update the safety team on safety issues and current jobsite updates.
- Monitored underground stations and alignment, participated in the weekly Monday, Wednesday, and Friday safety walks with WSCC Underground Safety Manager surveying construction activities daily including weekends to ensure compliance with contract specifications.
- On **04/13/2022** an inspection of the Grade Crossings and intersections with the CPUC.
- On 04/20/2022 a workshop was conducted to discuss the uplifting/removal of TSO'S with operations.
- Total Days Away (DART) Injury Rate: Eight (8) Days Away from Work (DART) Injuries is 0.14. The National Ave is 1.3.
- Project to Date – Total Days Away Rate (561 Days Away from Work) is 12.2. (No National Published Rate).
- The TRC Abatement & Demo Project was on site on **04/18/2022** at approximately 5:00 am shots were fired in the vicinity of the work area where workers were getting ready for the Monday morning safety huddle stretch and flex and a briefing took place and the foreman sent everyone home.
- Contract C0988 (WSCC) completed 21,792.75 work hours with (0) recordable/Days Away from Work injury for the month of April 2022. Total Project to Date work hours is 11,402,500.27 with a total of one hundred and two (102) recordable incidents. The Project Recordable Rate is 1.78
- The Bureau of Labor Statistics (BLS) average recordable rate per 200,000 work hours is 2.4

CHRONOLOGY OF EVENTS

November 2011	Board approved the Life-of-Project Budget of \$1.749 billion.
December 30, 2011	Received Record of Decision from FTA.
March 12, 2012	Received Statement of Qualifications for Contract C0988 C/LAX Transit Corridor.
May 30, 2012	Awarded Contract No. C0990 C/LAX Advanced Utility Relocations to Metro Builders and Engineers Group LTD.
May 23, 2013	Board amended the Agency's FY14 Proposed Budget to include funding of \$80 million for an underground station at Leimert Park Village as part of the baseline project.
June 27, 2013	The Board awarded Contract C0988 Crenshaw/LAX Transit Corridor to Walsh-Shea Corridor Constructors
September 10, 2013	Issued Notice to Proceed to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Project.
December 5, 2013	The Board approved Memorandum of Understanding with the Los Angeles World Airports for a parallel design and possible construction modifications near Aviation/ Century Station to accommodate elements of LAWA's SPAS.
December 5, 2013	The Board awarded Contract C0992 with Rocla Concrete Tie, Inc, for the procurement of concrete ties and assembly items.
January 21, 2014	A Groundbreaking Ceremony was held at the Crenshaw/Exposition Station.
January 23, 2014	The Board awarded Contract C0992A Rail and Bumping Posts to LB Foster Rail Technologies Corp.
August 21, 2014	Substantial Completion issued for Advanced Utility Relocations Contract C0990.
May 28, 2015	The Board awarded Contract C0991 Division 16: Southwestern Yard to Hensel Phelps/Herzog JV. Also increased by \$22.0 million the Life of Project Budget for the Southwestern Yard Project to a new amount of \$307.2 million.
May 28, 2015	The Board approved Design Option 3 for the track alignment to accommodate the future Metro Connector Transit Station (96 th St. Station).

CHRONOLOGY OF EVENTS (continued)

June 29, 2015	Issued Notice to Proceed to Hensel Phelps/Herzog JV, Contract C0991 Division 16: Southwestern Yard
April 27, 2016	The Tunnel Boring Machine was launched and drilling from north to south of the alignment started.
May 7, 2016	Held Halfway There Community Celebration at Leimert Park marking the halfway point of the project.
May 27, 2016	Held Groundbreaking Ceremony for the Southwestern Yard (Division 16).
April 6, 2017	The northbound tunnel boring machine completed mining with the hole thru at Leimert Park Station.
June 15, 2018	Restoration of the road over the three underground stations along Crenshaw Blvd. commenced at Leimert Park Station area and the at-grade transition section.
January 30, 2019	Substantial completion was achieved by the Southwestern Yard (Division 16) Contract C0991 Contractor, Hensel/Phelps/Herzog JV.
May 28, 2020	The Board amended the Life-of-Project budget by \$90 million for a new total of \$2,148 million. The Project Schedule was revised to reflect a 2021 revenue service date.
March 12, 2022	Partial substantial completion for Segments A and B was issued to the Crenshaw/LAX Transit Project Contract C0988 Contractor, Walsh-Shea Corridor Constructors.
March 30, 2022	Held closing event and celebrated the success of Business Solution Center, and Business Interruption Fund programs.