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SUBJECT: CRENSHAW/LAX TRANSIT PROJECT
SEPTEMBER 2021 QUARTERLY 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 the period ending October 1, 2021.

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



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CRENSHAW/LAX TRANSIT PROJECT

QUARTERLY PROJECT STATUS REPORT

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SEPTEMBER 2021

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PROJECT OVERVIEW

Project Background

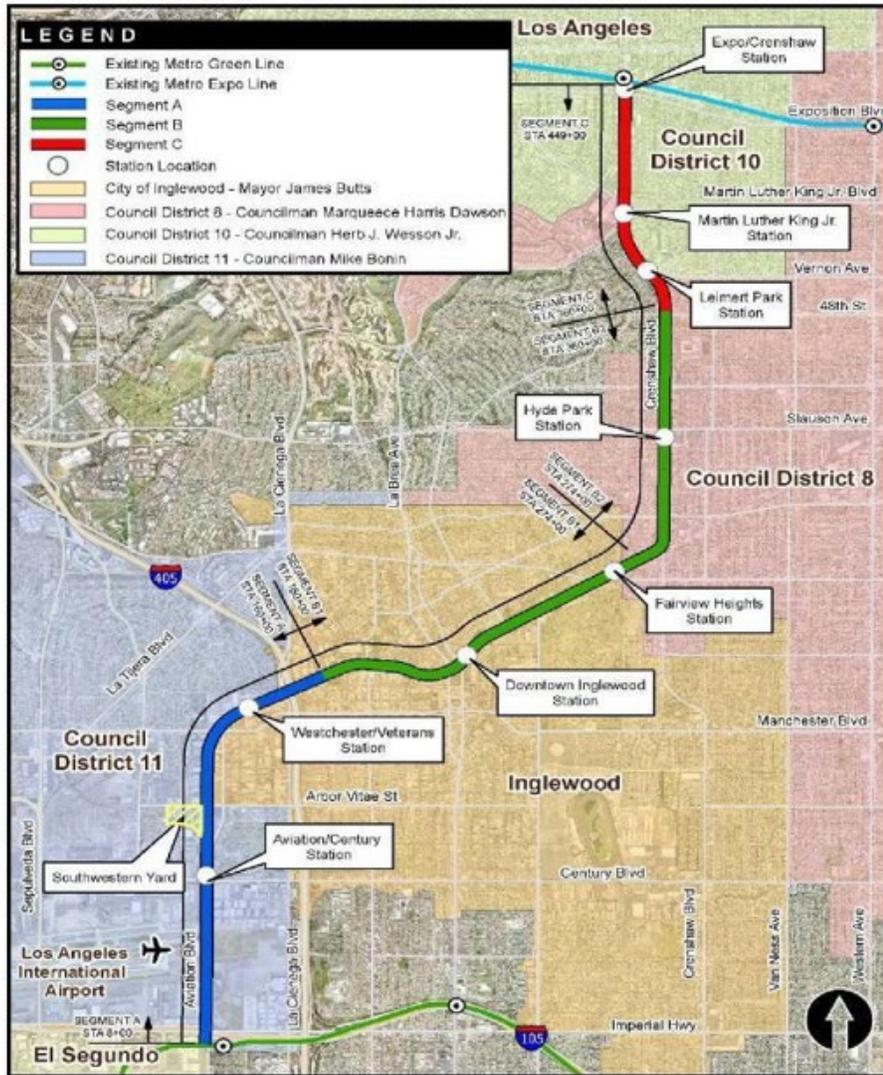
The Crenshaw/LAX Transit Project is a north/south light rail line that serves the cities of Los Angeles, Inglewood, Hawthorne and El Segundo as well as portions of unincorporated Los Angeles County. The alignment extends 8.5 miles, from the intersection of Crenshaw and Exposition Boulevards to a connection 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 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 which 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, vehicle software field verification is done for the C Line (Green) tie-in, and Segment A, B and C and will follow for the

remaining open items on Segment B, 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 was mostly completed in February 2020. SCADA software development is in final stages of coordination and completion pending completion of continued field testing (LFAT, iLFAT and SIT-1). Metro has completed all System Integration Test Phase 2 (SIT-2) procedures and identified key personnel to manage and perform tests. Preparations are being made to start SIT-2 testing of completed sub-systems, by location, and could contractually start 45 days prior to scheduled substantial completion. Rail Activation coordination of weekly meetings have started between WSCC, sub-contractors, CPUC, Metro management, Operations and ROC teams. Metro management re-started rail activation meetings to include all parties involved WSCC and their subcontractors in planning for SIT-2 start up. ROC has observed some of the project sub-systems as they are being tested, such as CCTV and SCADA. Metro is coordinating efforts with WSCC and LKC to verify that the cross-connect jumpers and devices connection of various systems to CTS in preparation for Metro's SIT-2 pre-testing. ATC connectivity to ROC troubleshooting continues by WSCC and LKC. Change order has been issued to WSCC to provide technical support during System Integration testing Phase 2 and awaiting resume for the qualified WSCC support personnel.

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 equipment has been manufactured and put in storage locally for the Crenshaw/LAX Project stations.

UFCS contractor and mainline contractor are continuing to coordinate installation at all locations. Installation of Ticket Vending Machines (TVM) fare gates, emergency swing gates, other fair collection equipment and wiring to control room are continuing at various stations. Fare gates and ticket vending machines are installed at all locations, swing gate installation mostly complete at elevated station, at-grade station, and continuing with TC&C room equipment installation at the underground stations. CUBIC has confirmed communication with ROC and planning for their final wiring and testing. Final programing and activation would be done 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

Metro Headquarters resources to include, but not limited to, engineering, risk management, environmental, 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 installation, considerable testing left to be completed by WSCC. This includes rework, prerequisite construction work to allow follow-on subcontractors to complete systems installation, local field acceptance tests and systems integration tests. Field issues are being addressed but new issues discovered during testing continue to impact the schedule and any potential mitigation and recovery plans.

WSCC in their August 2021, monthly schedule update reflects a WSCC Systems Substantial Completion forecast date of October 22, 2021. This Milestone date represents exclusion of activities that do not impact the completion of WSCC's System Integration Testing Phase 1 (SIT-1), such as street restoration, signage, and artwork. Metro is concerned that the current schedule forecast from WSCC does not reflect all the remaining work (retesting, test reports, etc.) and continues to reflect slower than planned progress every month without effective mitigation efforts made by WSCC or their subcontractors. Metro is also concerned that WSCC is not applying the right resources and field force on a timely manner to complete the remaining prerequisite, troubleshooting of issues, for timely completion. Issues such as OCS counterweight rope damage (train testing at OCS tracks resumed with temporary repair) were identified in June 2021, that require major efforts to rework as testing efforts are allowed to continue. OCS counterweight rope damage permanent fix is under evaluation and WSCC started rework as an at-risk installation.

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 to December 2020, 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 substantially completed and tested. However, there are a few elements remaining to be finalized prior to the start of operation.

Metro's Project Team is coordinating 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 upcoming System Integration Testing Phase 2 (SIT-2). Coordination of weekly meetings are continuing to address and prepare for start of SIT-2 testing including test procedures, test plan, durations, and staffing requirements. Metro operations has staffed up and assigned staff to key positions to support SIT-2 tests. Metro started SIT-2 and continuing to monitor progress of required pre-requisites as they are successfully tested. WSCC currently is working on establishing interface connection from the train control system to ROC and CCTV and SCADA systems are already visible from ROC. Details of needed support staff from Design Build contractor during SIT-2 is coordinated and expecting qualified support staff resumes from WSCC and their subcontractors.

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 and scheduling efforts are underway. Metro Operations have completed Southwestern Yard (Division 16) rail activation and Metro Operations continues to provide support to the mainline contractor testing efforts as needed, including vehicles with operators for testing. Metro Management, WSCC Contractor, CPUC and Operations are meeting weekly to coordinate, manage, and support the Project testing and activation.

EXECUTIVE SUMMARY

The Project has achieved 99.3 % 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 3,9 and 10), affecting construction due to the remaining items, finishes (cladding ongoing), plinth gap repair (completed), Station speakers (completed), electrical and mechanical (emergency fans/dampers) installation and testing (EVOP, EGOP ongoing), system's work and testing including SIT-1 are ongoing. WSCC has added design staff 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 construction, installation and 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 mostly completed and in field inspection, punch list and acceptance process. and continuing with station finishes (artwork, windscreens, signage, cladding, ceiling panels, etc.), systems installation and testing (LFAT, iLFAT and SIT-1). The three underground stations remain at various levels of completion with emphasis on electrical/mechanical verification testing, systems testing, finish work inside the stations continuing, entrance structures and plaza finishes are mostly complete.

WSCC is continuing with the system's Local Field Acceptance Testing (LFAT), and Integrated LFAT (iLFAT), and systems Integration testing at various locations on the project. The WSCC/EEI commissioning agent continues the coordination, planning, and startup process of the remaining items for the underground structures, stations and aerial station mechanical (Emergency Ventilation Fans (EVF), and plumbing (Sump pumps, Etc.). EEI continue with LFAT (testing from Communication Interface Cabinet) of the remaining items, elevators and escalators commissioning are mostly complete after cladding installation completion at each underground stations.

Trackwork and OCS/OCR are mostly completed, and field verification and inspection of OCS counterweight continues during the rework. All segments are energized and under WSCC track allocation control. Wayside train control installation is mostly complete along the alignment including in the underground stations and tunnels and in the process of establishing (troubleshooting and repairs continue) connection to the Rail Operations Center (ROC). System

installation, conduits and wiring are mostly complete and continuing with systems LFAT's, iLFAT and SIT-1.

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

- Finish work are mostly complete at all stations including ceiling panels, cladding, signage, and end devices (Speakers, cameras, intrusion detection, etc.). Speaker loops at a few locations were evaluated and need to be brought to compliance with design criteria.
- Station cladding is progressing, but at a slower rate as planned, impacting follow on installation of end devices and testing (Escalators LFAT, Radio, Intrusion detection). Quality of cladding installation and finishes remains a concern that is being addressed, by refabricating and replacement.
- Elevator installations, commissioning verification checklist and elevators LFAT's including elevator telephones with dial tone are complete and issues with the cameras are being addressed. Issues with elevator stainless steel finishes have been accepted by Metro and re-finish work is also mostly complete.
- Testing of mechanical equipment and electrical systems is mostly complete and remaining issues are being identified, tracked and addressed. Any potential retesting and adjustments identified during test report review and iLFAT are planned and performed as needed.
- All booster fan installations are complete. Start-up and functional testing of tunnel booster fans (TBF) at UG1, UG3 and UG4 has been performed and completed the air balance and movement testing. UG3 tunnel booster fan air flow issues are identified, evaluated, and corrective measures are being implemented by WSSC. New issues with UG1 booster fans were investigated for cause repaired and tested.
- Underground emergency ventilation fans (EVF) installation and testing are mostly complete. Trouble shooting of issues and verification of wiring are mostly complete including testing from Communication Interface Cabinet (CIC) (LFAT). Damaged EVF at Expo and Leimert Park stations were replaced and tested. Damage and repair process for various fans needs to be documented.
- Start-up and functional testing are mostly complete. List of issues are being tracked and addressed. Completion of mechanical interface with SCADA continue to be verified during iLFAT at each location.
- CCTV installation and testing has progressed significantly at all locations and are mostly completed, tested including the connectivity to ROC.
- Telephone installation testing and connectivity has progressed significantly and are mostly completed, tested including the elevator phones, operator relief platform.
- Radio system installation including radiax, coaxial cable, antennas and radio equipment installation for underground system is mostly complete and tested. LFAT and System wide testing of radio system including underground walking testing and onboard vehicle radio testing are complete.
- Contract P3010 contractor KINKISHARYO INTERNATIONAL, mostly completed onboard vehicle verification testing as planned for Segments A, B and C and awaiting projectwide for final verification.
- ATC connection to ROC troubleshooting continues and issues are being addressed.
- Coordination meeting at the Rail Operations Center, Metro Operations and SIT-2 testing are

setup weekly in preparation to start SIT-2. Additional coordination meetings are setup that include WSCC and their subcontractors to address test reports including support and availability.

- Metro issued a change for WSCC to provide needed support and troubleshooting during SIT-2 by operations. Details of the support and coordination continues between WSCC systems, Metro operations and Metro management.
- Universal Fare System (UFS) contractor and mainline contractor are continuing to coordinate installation at all locations. Fare gates and ticket vending machines (TVMs) are installed at all locations, swing gate installation mostly complete and wiring to control room is continuing at various stations. Cubic has confirmed communication with ROC and continues to resolve issues with WSCC. WSCC also completed underground station Ticket Vending Machine (TVM) cladding installation.
- Systems field walk, verification inspection and punch list process is continuing by locations and subsystems. Major issue with the OCS balance weight anchor stainless steel rope damage and fraying are being inspected and monitored weekly as a temporary fix allowing train operation and testing to continue. Permanent fix is developed and in the process of review and approval. Field rework and repair started on Segments A and B1 with At-Risk until the fix final approval.
- Artwork is also mostly complete at all locations and in final stages of acceptance.

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 August 2021 monthly schedule update reflects a WSCC Systems Substantial Completion forecast date of October 22, 2021. Metro is concerned that the current schedule forecast from WSCC, does not reflect all the remaining work (retesting, test reports, etc.) and continues to slip and reflect slower than planned progress every month without effective mitigation efforts made by WSCC. There are still considerable repair and testing activities left to be completed by WSCC. This includes rework (Cladding, finishes, etc.), prerequisite construction work to allow follow-on subcontractors to complete systems installation, local field acceptance tests and systems integration tests.

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	10/22/21	-681 days

To date, the design and construction changes for WSCC related to base scope represent

approximately 14.3% of the contract value which includes 4.1% 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 DRAFT August 2021 Monthly Schedule Update which reflects a WSCC Substantial Completion (SIT-1) forecast date of October 22, 2021, and Systems Substantial completion date of October 22, 2021. Metro is concerned that the current schedule forecast from WSCC, continues to slip due to field issues and reflect slower than planned progress every month without effective mitigation efforts made by WSCC. Potential mitigation proposed by WSCC such as increased work crews, double shift, and overtime, has not been effectively implemented by WSCC or their subcontractors. There are still work activities and prerequisites to testing left to be completed by WSCC. This includes rework (OCS balance weight anchor stainless steel rope, ATC connectivity system to ROC, cladding, speaker system, etc.) and prerequisite construction work to allow follow-on subcontractors to complete escalators testing, systems work, local field acceptance tests and systems integration tests

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 September 2021, there was a contingency replenishment of \$177,957 which increased the remaining contingency to \$10.8 million. The remaining contingency is 0.5% of total project current forecast and 12.5% of total project cost-to-go.

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

Status/Action

Activities completed recently include test procedures, MSE wall repair, power coordination studies, station speakers, and deviation requests. There are engineering support activities during construction and testing such as test reports, submittals, re-submittals, requests for information (RFI), NCR's, FLS issues, OCS balance weight anchor stainless steel rope fraying, including new field issues that are impacting the field work progress. Most of the known items are put in the BIM-360 (Building Information Modeling 360) for tracking and resolution. The impact is creating potential delays and inefficiencies to construction, systems work, testing, start-up, commissioning, LFAT and iLFAT. A full time HNTB (Engineer of Record) engineer was assigned to the Project to help manage and expedite issue resolution. New and unresolved existing issues including failed tests (discrepancies) requiring investigation, trouble shooting, design support and resolution are continuing to affect progress in all areas of the project schedule including systems communication. Issues requiring engineering investigation, analysis, RFI's, procurement are continuing to affect the work progress in the field.

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 Overhead Catenary System (OCS) balance weight anchor stainless steel rope damage, emergency fans, fire alarm systems and testing. There are still new issues identified, as testing continues, which are impacting planned follow-on work by subcontractors in the underground stations and tunnels. Contractor's prerequisite work needs to be completed expeditiously to allow follow-on subcontractor work to be expedited to minimize effect of slow schedule progress. The Emergency Management Panel (EMP) screens issues have been resolved, plinth gap and with MSE Wall-202L completed and sites restored. Other items continuing to affect schedule progress including delayed cladding procurement which has been addressed and are being delivered but have installation quality issues and damaged sections. The impact of these issues continues to cause schedule slippage and inefficiencies, and delays trackwork activities, clearance and live wire testing, resulting in delays to the P3010 on-board equipment verification completion schedule. Other discrepancies are being identified as testing continues. Metro is also concerned that WSCC is not applying the right resources and field force on a timely manner to complete the remaining prerequisite, troubleshooting of issues, for timely completion. New issues such as OCS counterweight rope damage (train testing at OCS tracks put on hold) are being identified that require major efforts to correct as testing continues.

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. Each impact claim will be assessed consistent with Contract terms. Project experienced a surge in Dec-2020 and Jan-2021 with over 30 cases reported. The number of COVID-19 cases were trending down, with only few isolated cases reported since March 2021 through September 2021. This item is not considered a major concern at this time but is being monitored and guidelines emphasized.

No. 7: MSE Wall 202L Settlement and Movement

Status/Action

Construction activities in the area of MSE Wall 202L movement were suspended pending detail

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 continuing. Metro and WSCC have resolved EMP screen issues and proceeding with testing at this time. Other issues with EMP are being identified, recorded and being addressed in the field. This item is not considered a major concern at this time.

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

The remaining required WSCC testing effort including LFAT, Commissioning and SIT-1 is very critical and considered significant part of remaining scope of work. The actual production rate of successful testing does not support WSCC's Monthly Schedule Update or the weekly projections. The required testing effort includes functional testing, and other mechanical and electrical equipment, escalators, and communication of LFAT, iLFAT, Commissioning and SIT-1 are critical part of the schedule and key milestones. The actual production rate of testing needs to increase significantly to support WSCC's Monthly Schedule Update and their projected production plan. There is no contingency plan in place for addressing issues, trouble shooting, repairs and required retesting, etc. Coordination between Metro systems and WSCC is continuing to narrow the difference in LFAT numbers and there is an agreement on the SIT-1 numbers. Test report progress is significantly behind and lagging testing.

No. 10: 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 are damaged at various degrees. After evaluation it was determined that the OCS system needs 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 have determined the cause and have developed potential permanent solution that is under HNTB (Engineer of Record) and Metro evaluation. LKC has replaced the ropes and implementing the final solution at their own risk. This issue has caused delays, impacting completion of P3010 vehicle software verification, train control integration testing and project substantial completion.

PROJECT CONSTRUCTION PHOTOS



AVIATION STATION – WSCC grading sidewalk at Aviation



HYDE PARK STATION – Preparing the floor surface at the south end entrance ramp for coat finish placement.



PARK MESA – Planting foliage along the northbound median of Crenshaw Blvd between 57th St and 54th St.



EXPO STATION – Continue fine grading the entire Park & Ride area.



LEIMERT PARK STATION – Sacking and patching the concrete curb around the main entrance plaza canopy.



MLK STATION – Continue stainless steel cladding installation to the ticket vending machines at Free Area.

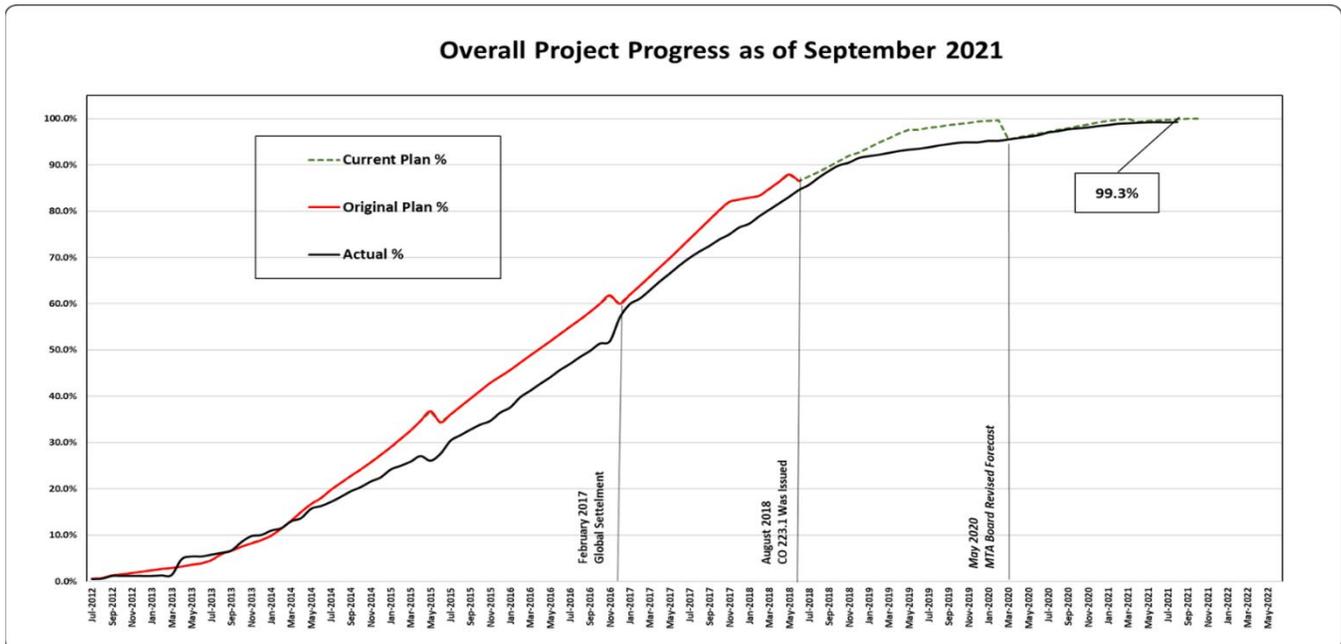
PROJECT UPDATE

Crenshaw/LAX Transit Corridor - Master Schedule August 2021		Crenshaw/LAX Level 1 Schedule				MASTER SCHEDULE
Activity Name	Finish	Q3	Q4	Q1	Q2	Q3
Crenshaw/LAX Transit Corridor - Master Schedule	05-Apr-22					
Milestones & Key Dates						
Program Elements						
865512 - Crenshaw/LAX	22-Oct-21					
C0990 - Advanced Utility Relocation	15-Dec-21					
C0992 - Concrete Ties and Assembly Items	05-Feb-22					
C0992A - Running Rail & Bumping Post	27-May-16A					
C0988 - Pre-Construction Crenshaw/LAX	15-Aug-14A					
C0988 - Construction & Installation	08-May-15A					
Sitework	27-Dec-19A					
Stations	05-Feb-22					
Guideway & Track	13-Oct-21					
System-Wide Components	21-Oct-21					
Systems	25-Oct-21					
Testing	20-Oct-21					
Substantial Completion (SIT-1)	22-Oct-21					
Start Up	22-Oct-21					
Pre - Revenue Operations	21-Oct-21					
Pre - Revenue Operations	05-Feb-22					
Revenue Service	05-Apr-22					
Revenue Service (WSSC Forecast)	05-Apr-22					
860003 - Southwestern Yard and Paint Body Shop	30-Jan-19A					

Progress Summary

	Status	Change from Last Period	Comment
Current Revenue Service:	5/24/21	NA	
Forecast Revenue Service:	4/5/22	-30 days	Forecast by Contractor
Final Design Progress:			
Contract C0988	99.8%	0.0%	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	99.2%	0.1%	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

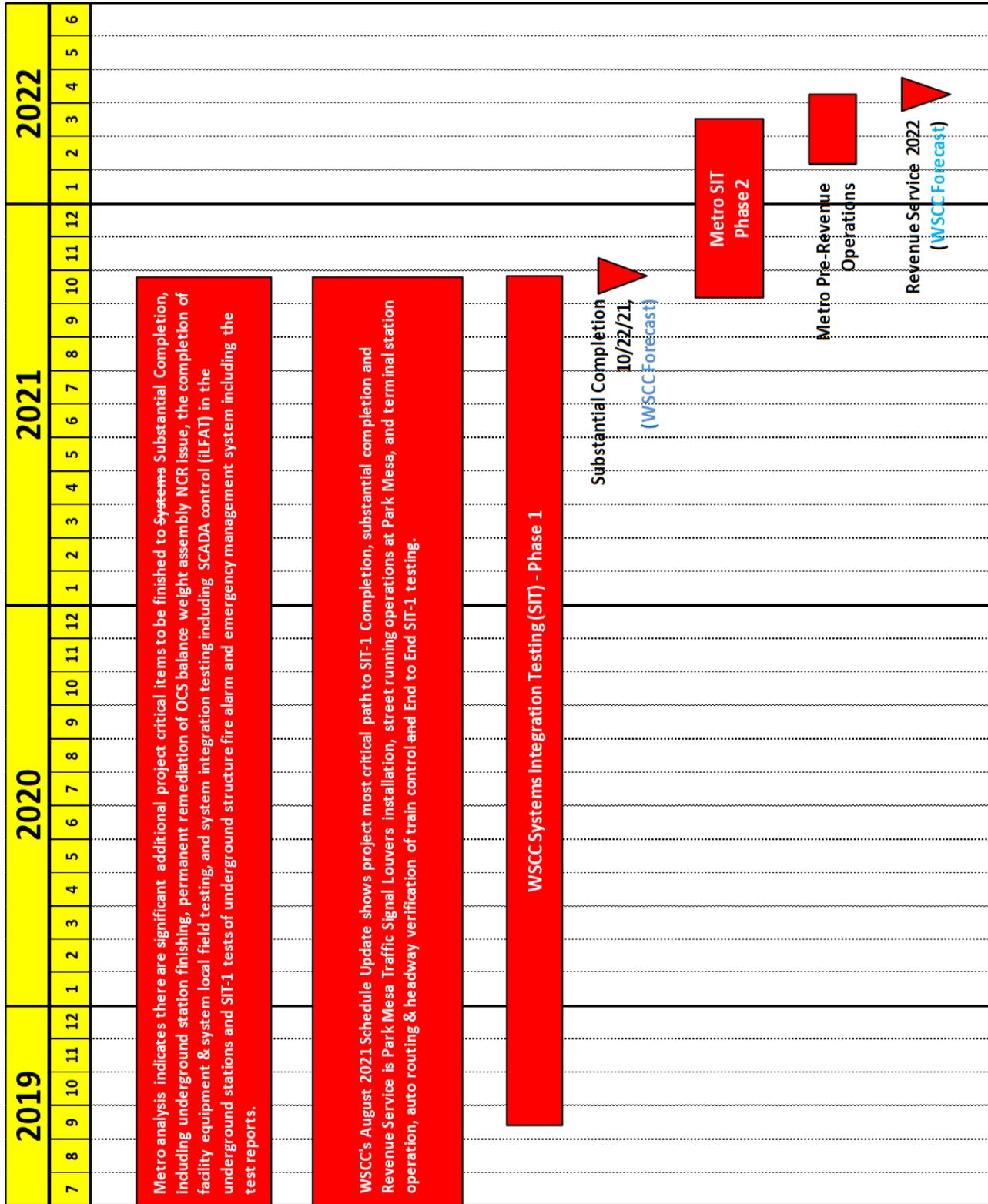
	Milestone Date	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22
Radio Onboard Vehicle testing	9/29/21A	◻					
Signage Installation - Wayside	10/01/21		◻				
Ventilation Equipment - Leimert Park Station Installation/Start Up/LFAT (Retesting)*	10/05/21		◻				
Signage Installation - All Stations	10/12/21		◻				
Artwork Installation - All Stations	10/17/21		◻				
LFAT all Project Elevators and Escalators *	10/17/21		◻				
Resolve all FLS tracking list	10/20/21		◻				
WSCC Systems Substantial Completion (SIT-1)	10/22/21		◻				
WSCC Substantial Completion (Non-Systems)	10/22/21		◻				
Metro Start SIT-2 (45 days overlap with SIT-1)	Oct-2021		◻				
Fair Collection System Installation (Final Programing prior to RSD)	12/15/21				◆		

◆ MTA Staff	Ⓜ MTA Board Action	⌵ FTA (Federal Transit Administration)	▽ Utility Company
△ Other Agencies	□ C0991 D/B Contractor	○ Design Consultant	◻ C0988 D/B Contractor
"A" following date is actual and completed		* New Date	

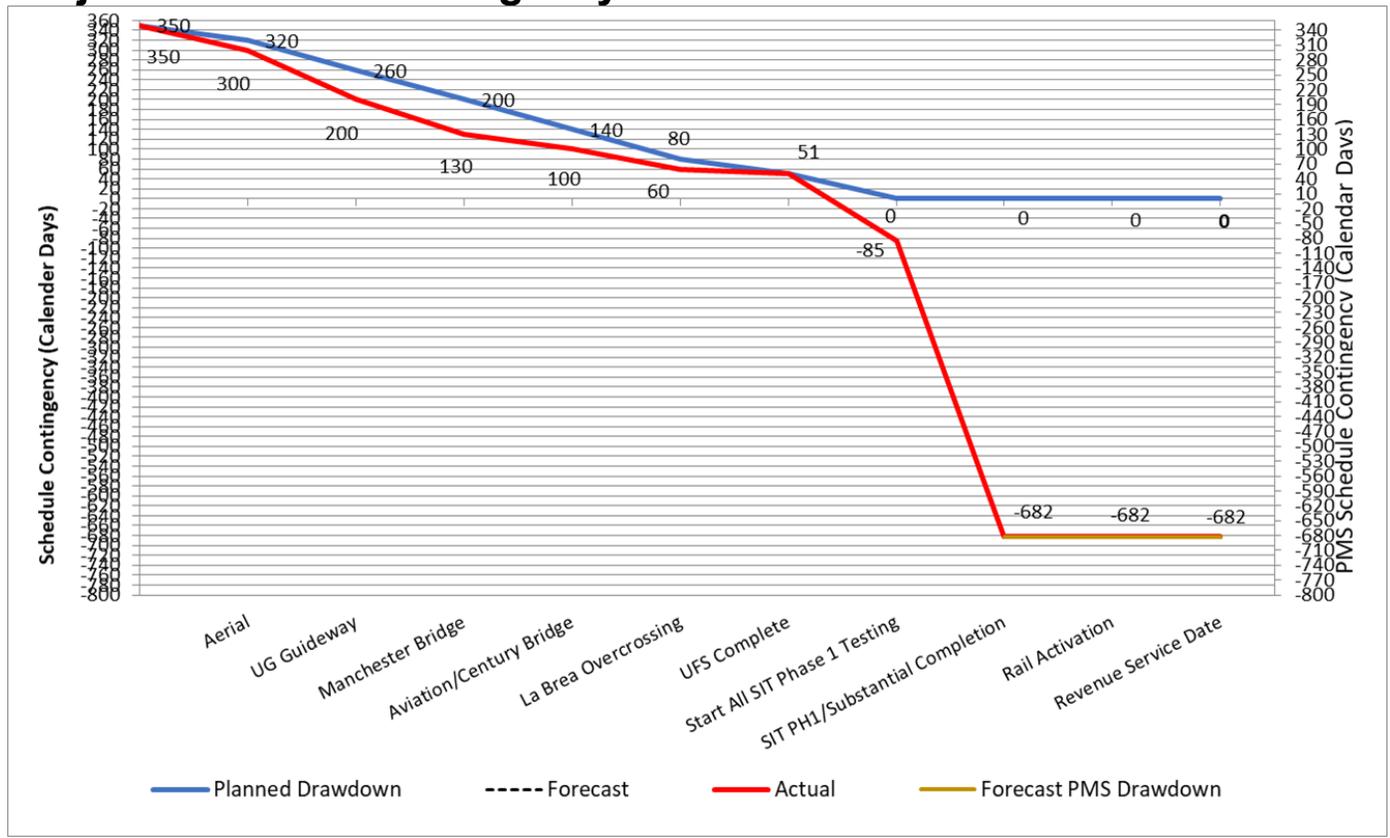
Major Equipment Delivery Status

<i>Metro Supplied Equipment</i>			
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)	In Progress (Prior to RSD)
<i>Mainline Contractor Equipment Delivery Requirements</i>			
Activity Name	Early Finish	Need Date	
Fabricate, Wayside Signage *	September 2021A	September 2019	
Fabricate Station Finish Cladding (Replacements panels are being re-fabricated) *	September 2021A	September 2019	
Spare Parts (Being Descoped from WSCC Contract) *	TBD	December 2020	
*Requires schedule mitigation by Mainline Contractor			
Remaining procurements items due to damage, quality issues are tracked separately.			

Critical Path - reflects "Current 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.

Risk Management Narrative

Summary of Risks

Within this reporting period no risk was closed. No new risk was added. There is a total of twelve (12) risks remaining to be managed in the next reporting period.

Of the Twelve (12) risks, eight (8) 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.	20
124	50	Main Line testing prior to pre-revenue operations may take longer than expected, resulting in increased Main Line Metro and Consultant costs and potential delay to Substantial Completion.	16
362	50	Schedule activities that are critical to completion: OCR (Done, OCS weight/Rope issues), TPSS and Auxiliary Power Energization (Done), Mechanical tests including HVAC/Emergency Fans/Tunnel Booster Fans, etc. (Mostly done, final testing remains), Train Control wiring/testing (Mostly done, connectivity to ROC troubleshooting continuing), Mechanical tests HVAC/Emergency Fans/Booster Fans testing (Ongoing), Communication system testing (Ongoing), Speaker in edge-lights (Replaced, Tested), Fire alarm LFATs (Mostly complete, Final testing remains), Intrusion detection, Radio, PA speakers, etc. systems integration testing (Ongoing).	16
379	20	LFAT, Procedures (Done) and Testing Schedule and Rate of Testing Progress (Ongoing)	15
380	20	SIT-1, Procedures (Done) and Testing Schedule and Rate of Testing Progress (Ongoing)	15
373	20	WSCC Damaged, Repair, Rework and Incomplete work including tunnel conduits (Done), Track plate/plinths (Done), OCS Balance Weight Anchor – Stainless Steel Rope Fraying (Being replaced and monitored), Cladding Quality/Damage (re-fabricating/Installing).	13
377	20	COVID-19 (Coronavirus) – Project Impact (Delta Variant is surging in Los Angeles)	10
381	20	OCS, Damaged Balance Weight Anchor Stainless Steel Rope (Temporary fix implemented and permanent fix under evaluation, LKC/WSCC Installing at their own risk)	10

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: No risk score is 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	12,372	416,254,259	102,302	415,155,709	12,372	416,254,259	(1,534,047)
20	STATIONS	153,906,000	-	308,067,041	-	306,206,648	359,351	304,118,883	-	307,846,170	(220,870)
30	SUPPORT FACILITIES SOUTHWEST YARD	66,673,000	-	66,919,206	-	66,715,509	-	66,146,382	(73,763)	66,822,583	(96,623)
40	SITEWORK/SPECIAL CONDITIONS	235,576,000	-	404,953,359	651,721	412,397,767	2,899,624	390,174,183	(215,974)	413,022,776	8,069,417
50	SYSTEMS	125,132,000	-	175,073,936	26,000	175,661,289	451,392	165,180,300	26,000	176,408,366	1,334,430
CONSTRUCTION SUBTOTAL (10-50)		1,052,622,000	-	1,372,801,849	690,093	1,377,234,471	3,812,669	1,340,775,456	(251,365)	1,380,354,155	7,552,306
60	RIGHT-OF-WAY	132,294,000	-	137,726,295	46,316	140,790,496	13,396	138,589,019	-	140,744,281	3,017,967
70	LRT VEHICLES	87,780,000	-	83,571,544	-	82,158,074	-	81,837,755	-	83,571,544	-
80	PROFESSIONAL SERVICES	273,147,000	-	501,844,251	244,665	505,567,096	1,564,493	463,401,659	73,408	506,942,729	5,098,478
SUBTOTAL (10-80)		1,545,843,000	-	2,095,943,938	981,074	2,105,750,137	5,390,558	2,024,603,889	(177,957)	2,111,612,709	15,668,770
90	UNALLOCATED CONTINGENCY	177,157,000	-	26,507,031	-	-	-	-	177,957	10,838,260	(15,668,771)
100	FINANCE CHARGES	-	-	-	-	-	-	-	-	-	-
TOTAL PROJECT 865512 (10-90)		1,723,000,000	-	2,122,450,969	981,074	2,105,750,137	5,390,558	2,024,603,889	(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	981,074	2,131,299,168	5,390,558	2,050,152,920	(0)	2,148,000,000	(0)

1. Expenditures are Cumulative through October 1, 2021.

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 increased by \$0.98 million this period to \$2,131.3 million which represents 99.2% of the current budget. The total increase is associated with design-build Contract C0988 Crenshaw/LAX Transit Corridor and professional services.

Expenditures

increased by \$5.4 million this period to \$2,050.2 million which represents 95.4% 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

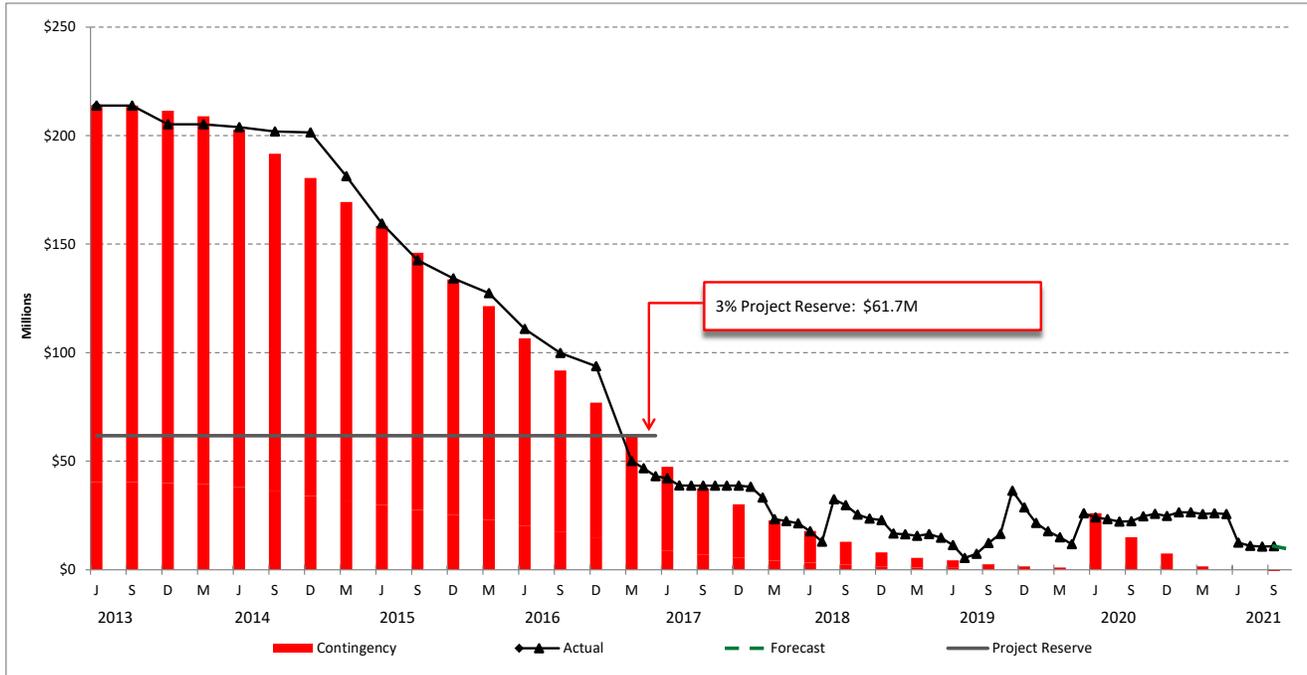
The total current forecast remains the same as the total current budget.

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
	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
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 CONNECT OR	-	37,914,465	-	37,366,770	-	37,366,770	-	37,914,465	-
500013 C/LAX LAWASCOPE OF WORK	-	581,918	-	581,918	-	581,918	-	581,918	-
405522 HIGHWAY PLANNING	-	105,457,668	-	105,457,668	-	105,402,636	-	105,457,668	-
TOTAL	-	151,365,312	-	150,317,617	-	150,262,586	-	150,865,312	(500,000)

Cost Contingency Drawdown



Cost Contingency Drawdown Analysis

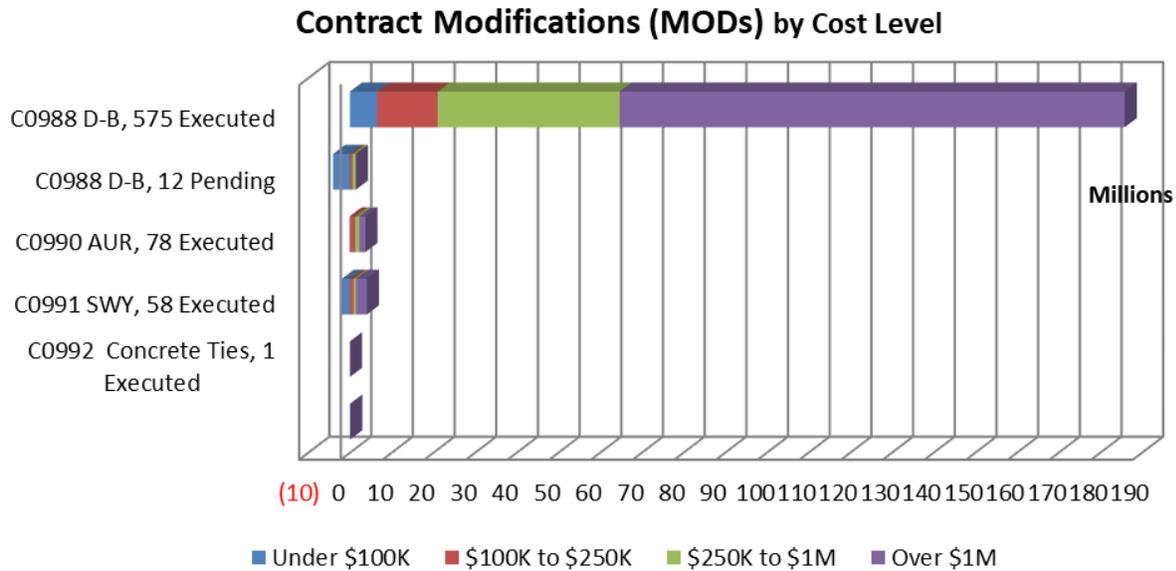
In May 2020, the Board amended the LOP budget by \$90 million, increasing the Total LOP Current Budget to \$2,148 million. The increase included \$14.2 million for additional unallocated contingency. The drawdown plan is correlated to anticipate risk trends and measures drawdown moving forward.

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, \$177,957 was replenished to contingency. The remaining total project contingency (allocated and unallocated) is \$10,838,260.

PROJECT COST CONTINGENCY (through 01-October-2021)					
UNITS IN DOLLARS					
	Original Contingency	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)
Unallocated Contingency	173,500,000	(162,839,697)	177,957	(162,661,741)	10,838,260
Allocated Contingency	40,366,792	(40,366,792)	-	(40,366,792)	-
Total Contingency	213,866,792	(203,206,489)	177,957	(203,028,533)	10,838,260

Summary of Contract Modifications



	C0988	C0990	C0991	C0992	Total
	575 Executed	78 Executed	58 Executed	1 Executed	
Under \$100K	\$ (386,027)	\$ (70,251)	\$ (1,918,854)	\$ 81,738	\$ (2,293,395)
\$100k to \$250K	\$ 15,354,149	\$ 1,280,184	\$ 875,202	\$ -	\$ 17,509,534
\$250K to \$1M	\$ 43,644,974	\$ 984,662	\$ 590,334	\$ -	\$ 45,219,970
Over \$1M	\$ 123,191,340	\$ 1,417,202	\$ 2,590,000	\$ -	\$ 127,198,542
Total Contract MODs	\$ 181,804,435	\$ 3,611,797	\$ 2,136,682	\$ 81,738	\$ 187,634,652
Contract Award Amount	\$ 1,272,632,356	\$ 7,827,500	\$ 172,312,695	\$ 2,161,297	\$ 1,454,933,848
% of Contract MODs	14.29%	46.14%	1.24%	3.78%	12.90%

Five hundred and seventy-eight (575) changes with a total value of \$181.8 million have been executed since award of Contract C0988. There are an additional fourteen (14) changes with a total credit value of \$2.2 million pending the administrative approval process.

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

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

One (1) change with a value of \$81,738 was executed for 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 August 2021)

- **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. **\$25,799,791 (20.00%)**
- **Current DBE Participation - Total amount** paid to date to DBEs divided by the amount paid to date to Prime. **\$30,421,511 (20.85%)**

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 **\$309,898,650 (23.85%)**
- **Current DBE Participation - Total amount** paid to date to DBEs divided by the amount paid to date to Prime (\$1,255,713,654) **\$358,569,742 (28.55%)**

Three Hundred Fifty-Six (356) Construction subcontractors have been identified to-date

PROJECT LABOR AGREEMENTS (PLA)

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

(Reported Data as of August 2021)

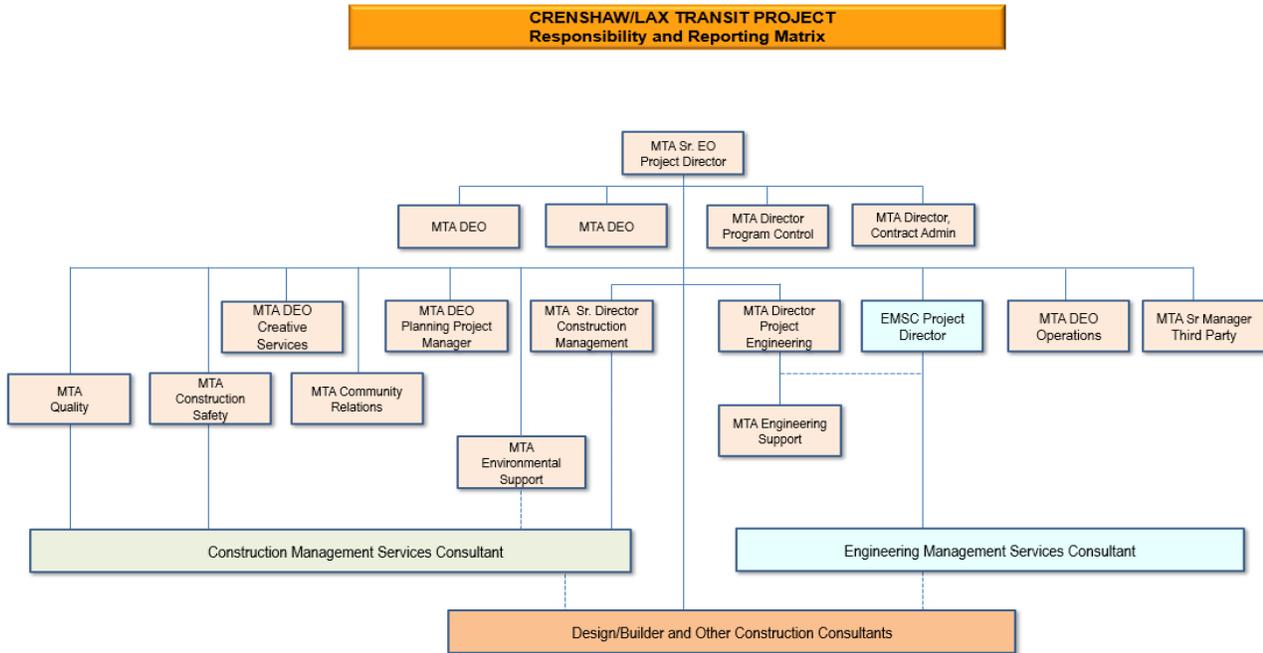
- **Targeted Worker Goal** – Construction work to be performed by residents from Economically Disadvantaged Area of LA County **40.00%**
- **Targeted Worker Current Attainment** **59.92%**
- **Apprentice Worker Goal** – Construction work to be performed by Apprentices **20.00%**
- **Apprentice Worker Current Attainment** **23.73%**
- **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** **10.32%**

FINANCIAL/GRANTS

CRENSHAW \$M		STATUS OF FUNDS BY SOURCE								
SEPTEMBER 2021		(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
SOURCE	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	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	103.116	103.116	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	0.178	0.178	0.178	100%	0.178	100%	0.178	100%	
STATE PROP 1B PTMISEA	201.200	128.950	128.950	128.950	100%	128.950	100%	128.950	100%	
STATE PROP 1 B LOCAL PARTNERSHIP PROGRAM	-	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	512.445	512.445	509.083	99%	447.366	87%	432.238	84%	
CITY CONTRIBUTION	52.400	101.707	101.707	88.023	87%	68.593	67%	60.707	60%	
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	392.758	392.758	392.912	100%	392.912	100%	392.912	100%	
PROPOSITION C 40% DISCRETIONARY	-	0.000	0.000	-	-	-	0%	-	0%	
PROPOSITION A 35% RAIL CAPITAL	4.800	4.850	4.850	4.850	100%	4.850	100%	4.850	100%	
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	2,131.299	99%	2,050.152	95%	2,025.438	94%	
NOTES:										
1 EXPENDITURES ARE CUMULATIVE THROUGH SEPTEMBER 30, 2021										
2 TOTAL NEW LOP APPROVED IN MAY 2020 IS \$2,148M.										
3 ORIGINAL BUDGET BASED ON BOARD APPROVED OCTOBER 2011 FUNDING/EXPENDITURE PLAN.										

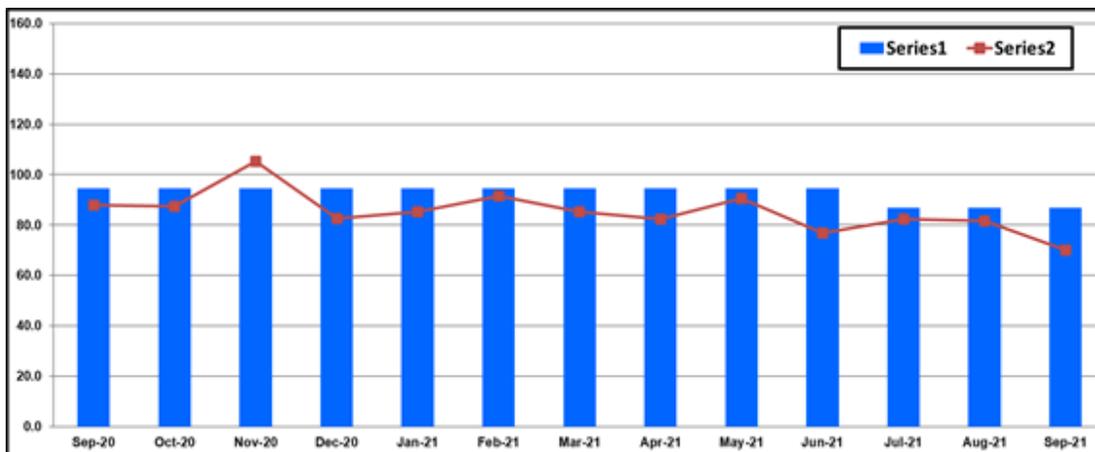
PROJECT ORGANIZATION AND STAFFING

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

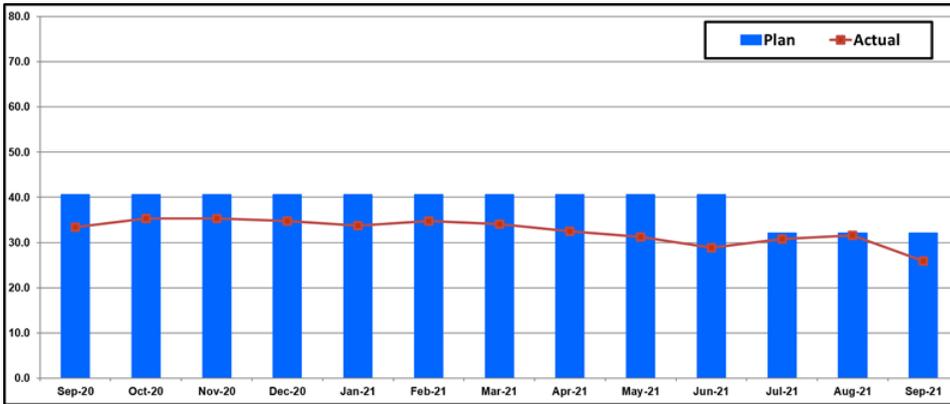


The project staffing charts have been updated with a revised FY22 staffing plan. The overall FY22 Total Project Staffing Plan averages 86.8 Full Time Equivalent (FTEs) per month consisting of 32.1 for Metro Agency staff, 44.5 for Construction Management Support Services Consultant and 10.3 for Design and Engineering Support Services Consulting staff.

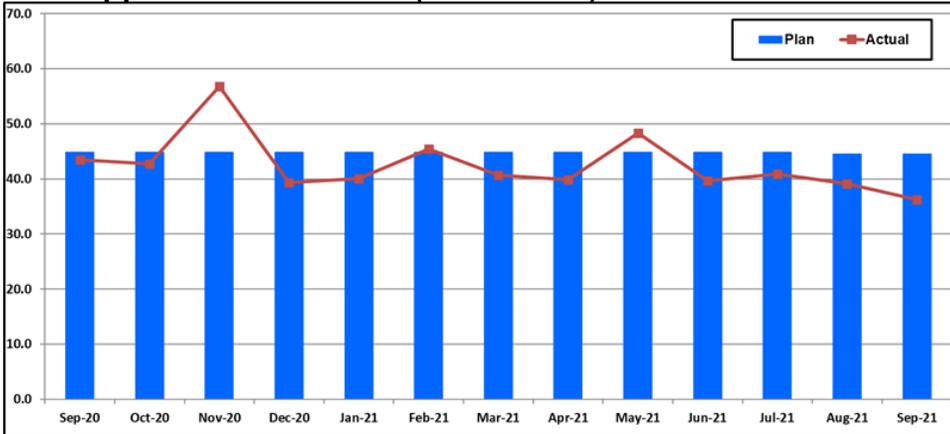
For September 2021, total project staffing were 70.1 FTEs for the month consisting of 25.9 FTEs for Metro’s project administration staff, 36.3 FTEs for Construction Management Support Services Consultant and 7.9 FTEs for Design and Engineering Support Services Consulting staff.



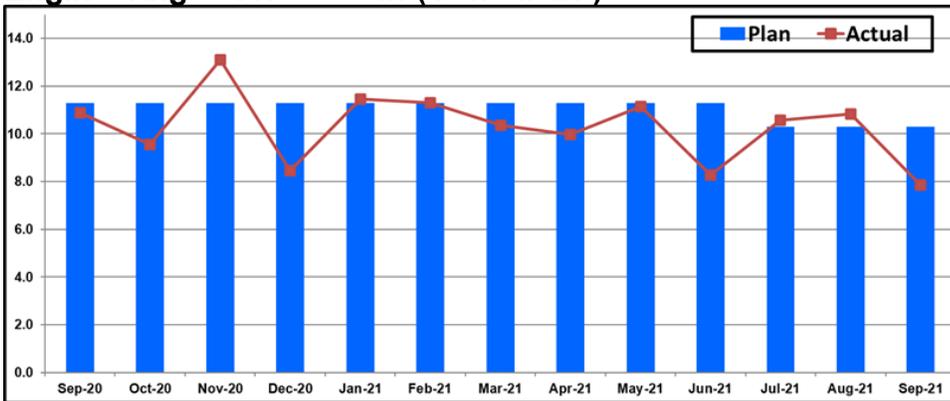
Metro Staff



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 one (1) Nonconformance Report (NCR) during this period.
- No new CWP reviews were conducted during this month.
- No new Metro Readiness Review meeting discussions were conducted during this month.
- Metro Quality participated in Internal Project Review Weekly Meetings.
- Metro Quality participated in project closeout meetings.
- Metro's Independent Testing Lab (ITL) was not scheduled to perform verification inspections/testing during this month.

ENVIRONMENTAL

- Noise and vibration spot checks continue to be conducted weekly at multiple sensitive locations, and at locations of new activities along the project alignment.
- SWPPP inspections of all project areas were conducted weekly by WSCC and spot checks by Metro to observe site conditions and report on performance of stormwater protection Best Management Practices and overall housekeeping.
- No fugitive dust complaints were received during the reporting period.
- EMS and Environmental Compliance Progress meetings were held during this reporting period on 9/9/2021 and 9/27/2021.
- There were no qualifying rain events during this reporting period.
- No spot check nighttime noise monitoring was performed by Metro during the reporting period.

CONSTRUCTION/COMMUNITY RELATIONS

- Continued working with WSCC to minimize the impacts of full street and lane closures along the Crenshaw/LAX Transit Project alignment.
- Ongoing coordination with WSCC and Metro Bus Operations to plan for bus detour routes to accommodate lane reductions and closures required to implement construction activities.
- continued outreach to area stakeholders including the LAX area regarding ongoing construction activities, mitigation measures and train testing.
- Ongoing coordination and partnership with first responders and city staff to address issues with homeless encampments, traffic plans and street closures.
- Planning for Community Construction Update Virtual Meeting, November 2021 and key stakeholder briefings.

CREATIVE SERVICES

- Participated in weekly Art Program and Signage coordination meetings with DB Contractor.
- Provided responses to Contractor RFI's and close out submittals.
- Completed on site installation inspections for art glass at entrance pavilions and porcelain enamel steel artworks.
- Participated in ongoing pre-punch signage inspection walks.

SAFETY AND SECURITY

- Conducted Monthly All Hands Safety & Security meeting with WSCC on 09/30/2021 and the following topics were discussed- Health, Safety and Security Staffing plan update, COVID- 19 reporting procedures and protocols, UG-4 current conditions, Track Allocation, EAP Protocols and Mine Phone Testing at Cross Passages and Station Boxes.
- 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 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 and 8:00 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.
- Total Days Away (DART) Injury Rate: Eight (8) Days Away from Work (DART) Injuries is 0.14. The National Ave is 1.5.
- Project to Date – Total Days Away Rate (561 Days Away from Work) is 12.2. (No National Published Rate.
- Contract C0988 (WSCC) completed 29,428.20 work hours with (0) recordable/Days Away from Work injury for the month of September 2021. Total Project to Date work hours is 11,207,679.50 with a total of one hundred and two (102) recordable incidents. The Project Recordable Rate is 1.82
- 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 (96th St. Station).

CHRONOLOGY OF EVENTS (continue)

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.