

Patsaouras Plaza Busway Station



PATSAOURAS PLAZA BUSWAY STATION

QUARTERLY PROJECT STATUS REPORT

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

JUNE 2019

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PROJECT OVERVIEW

PROJECT BACKGROUND

The passenger boarding / alighting areas for the HOV and El Monte Busway lanes are not located contiguously with Union Station, but rather they are situated at the corner of Alameda Street and the busway entrance, which requires a long walk to the Plaza. There is currently no direct pedestrian connection to Union Station, and there are no passenger amenities such as lighting, closed circuit television (CCTV), or information displays.

This issue is even more acute now with the revenue operation of the Congestion Reduction Demonstration Initiative project, since all new passengers also need to make the long walk for other transit connections such as the Red Line, Gold Line, and Metrolink.

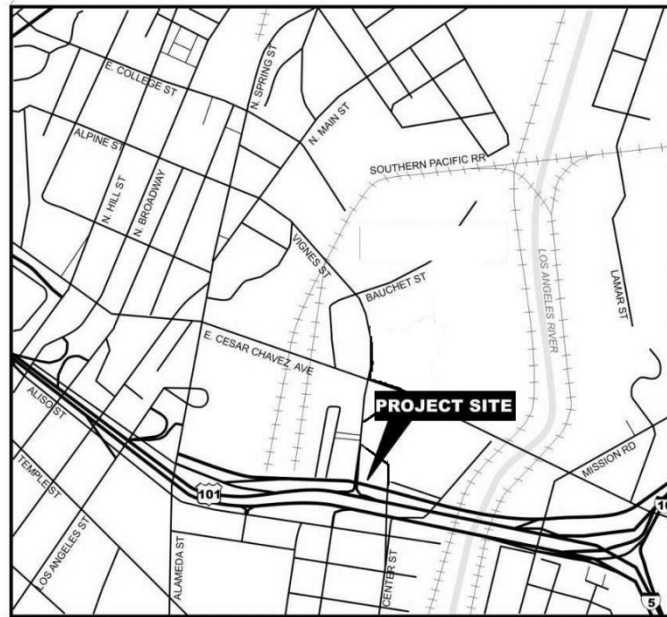
To resolve these issues and to provide a more user-friendly passenger experience, a number of potential configurations were evaluated. The final preferred configuration provides a new passenger boarding / alighting area on the south side of Patsaouras Plaza on the El Monte Busway.

GENERAL DESCRIPTION / FEATURES

- Relocates patron boarding station currently on north Alameda Street to a new station platform at the southern end of Patsaouras Plaza
- Improves vertical and horizontal pedestrian circulation
- Provides a direct connection to Union Station
- Widens the existing Caltrans Los Angeles River Busway Bridge
- The new station will serve Metro, Foothill Transit, and other operators

PROJECT LOCATION

The project site is in the industrial area northeast of Downtown Los Angeles, and located above the Vignes Street entrance to the U.S. Highway 101 along the HOV/Express Lanes, adjacent to Patsaouras Bus Plaza and across the street from the C. Erwin Piper Technical Center.



SOURCE: TAHA, 2009



Regional access to the project site is provided by U.S. Highway 101/Interstate 5 (Hollywood Freeway/Santa Ana Freeway), which runs adjacent to the project site, and Interstate 10 (San Bernardino Freeway), which is approximately 0.5 miles southeast of the project site.

SCOPE OF WORK:

The Scope of Work is composed of several major construction elements, each with its own subset of work components. The major elements are: Roadways and Sitework; Structures; Bus Platform and Amenities; Canopy Structure; Pedestrian Circulation; Lighting; Signage and Wayfinding; and Universal Fare Collection.

Roadways and Sitework

1. Roadway Modifications at El Monte Busway — The El Monte Busway is to be widened on the south side along a length of approximately 200 feet to accommodate the revised El Monte Busway lane configurations south of Patsaouras Plaza. The widening varies from 0.0 feet at the western limit to approximately 9.5 feet at the El Monte Busway bridge's western abutment. Removal work includes removal of pavement sections, raised islands, lighting standards, and barrier rails. New construction includes building new pavement and barrier rails, reconstruction of lighting standards, and modifications to existing embankment slopes. New signage, striping, and pavement markings along this length will also be required. In addition, new overhead signing is to be provided at the entrance to the busway near Alameda Street and an existing overhead sign structure is to be removed and replaced near the west end of the El Monte Busway Bridge.
2. Roadway Modifications at Patsaouras Plaza — The revised lane configurations along the El Monte Busway require modifications to the busway lanes that once entered and exited Patsaouras Plaza. The existing busway lanes entering and leaving Patsaouras Plaza from the busway will be permanently closed. Existing raised medians will be removed, and existing traffic signal poles and signal heads will be removed and salvaged. Signing and pavement markings will be provided at the Plaza for the new lane configurations.
3. Other Modifications at Patsaouras Plaza — Construction of the pedestrian overcrossing, stairs, and elevators will require removal of existing improvements in the plaza, including existing brick paving, traffic signal poles, barrier rails, granite curbs, sidewalk, accessible ramps, and palm trees. Brick paving and granite curbs are to be salvaged and reinstalled if not damaged. Any damage to existing pavement, landscape/hardscape, and granite curbs to remain must be removed and replaced with new materials to very specific and exacting standards.
4. Roadway Modifications at the US 101 On/Off Ramps at Vignes Street — Construction of the columns and footings for the busway bridge and platform canopy in the area of these ramps will require removal and reconstruction of concrete barriers along roadway edges as well as removal /replacement of AC/AB. In addition, portions of an existing retaining wall and curb are to be removed at locations interfering with the new construction (see Drawing C-07 in Volume III of the Project Definition Documents for details). Allowable ramp closures are discussed in Volume II of the Project Definition Documents — Specifications.

5. Utilities and Drainage - Project construction will require relocation and reconstruction of various existing utilities and drainage facilities, including a Caltrans' fiber optic line. In addition, new drainage facilities are to be provided for the freeway widening and other roadway improvements.

Structures

1. El Monte Busway Bridge Widening

The project includes widening both the north and south sides of the existing Caltrans Los Angeles River Busway Bridge and Overhead (Br. Na 53-2673). This bridge provides a travel way for the existing El Monte Busway through the project area. The widening on the north side of the bridge extends approximately 872 feet with an average width of 28 feet. The widening on the south side of the bridge extends approximately 775 feet with an average width of 14 feet.

The widening of the structure is required to provide for construction of the new station platform, bus lanes servicing the platform, and buffer lanes separating platform traffic from through traffic. In addition, the widening is required to provide for construction of the Pedestrian Ramp / Walkway which is to be built along the centerline of the existing bridge, allowing access to the platform from Patsaouras Plaza.

The widening to the north of the existing El Monte Busway Bridge was originally sized to accommodate an entrance lane from Patsaouras Plaza onto the Busway. Metro has decided not to provide vehicular access to/from Patsaouras Plaza onto the Busway, but is still requiring the north side widening as shown on the plans. The unused deck areas will be stripped off as shown on the Pavement Delineation drawings in Volume III of the Project Definition Documents.

The widening work includes design and construction of new bridge superstructure, substructure, and barrier rails. Work also includes removal of portions of the existing bridge superstructure and barrier rails. In addition, removal (and replacement at some locations) of portions of existing retaining walls and removal of portions of the existing CIDH retaining wall (Bent 6 & 7) for new column /footing construction will be required. New columns / foundations are to be designed to avoid conflicts with existing roadways, the future and existing Metro Rail Subway Tunnel, and the future Ramirez Flyover.

2. Pedestrian Ramp / Walkway Structure

A new Pedestrian Ramp / Walkway is to be constructed to enable pedestrians to access the new Station Platform from the existing Plaza (via the new Pedestrian Overcrossing). This structure extends approximately 277 feet along the centerline of the existing El Monte Busway, connecting to the new Pedestrian Overcrossing on the west side and to the new Station Platform on the east side. The Pedestrian Ramp / Walkway rises approximately 9 feet vertically from the level of the station platform to the level of the new Pedestrian Overcrossing, thus allowing a minimum vertical clearance of 19.5 feet over the existing busway lanes for the Pedestrian Overcrossing.

The Pedestrian Ramp / Walkway structure width is to have a 10 feet minimum horizontal inside clear dimension. It is to be supported on new columns which extend through the deck surface of the existing busway bridge to new foundations at existing grade below the existing bridge. The structure is enclosed with a structural steel frame with a covered roof. The roof consists of a standing seam over a dovetail roof deck. Side walls consist of fixed perforated stainless steel panels. In addition, swinging perforated stainless steel panels are located outside of the fixed stainless steel panels on the south side wall.

The outside wall swinging panels hang from stainless steel hinges, allowing them to move in the wind. A stopper at the base will limit the extent the panels can move. Final design and implementation of the panels is to be coordinated with and approved by Metro Creative Services.

3. Pedestrian Overcrossing

A new Pedestrian Overcrossing (OC) is to be constructed to enable pedestrians to access the new Pedestrian Ramp / Walkway and Station Platform from the existing Plaza. The Pedestrian OC extends approximately 114 feet south from the south end of the existing Plaza and connects with the new Pedestrian Ramp / Walkway. The OC is basically a level structure that maintains a minimum vertical clearance of 19.5 feet over the existing busway lanes below. The north end of the OC at the Plaza junction connects to new elevators and a stairway that allows pedestrian access to / from the Plaza itself.

The Pedestrian OC width has a 10 feet minimum horizontal inside clear dimension except at the north end, where it widens in the area of the new elevators and stairs. It is to be supported on new columns which extend through the deck surface of the existing busway bridge to new foundations at existing grade below the existing bridge, except for the north support column. The north column is shown to be supported on a new pedestal on the top of the existing parking garage structure.

The OC structure is enclosed with a structural steel frame with a covered roof. The roof consists of a standing seam over a dovetail roof deck. Side walls consist of fixed perforated stainless steel panels. In addition, swinging perforated stainless steel panels are located outside of the fixed stainless steel panels on the west side wall (same design and same oversight requirements as for the Pedestrian Ramp / Walkway structure noted above).

Bus Platform and Amenities

The bus station platform consists of an 8-inch-high concrete slab placed on the existing El Monte Busway bridge deck. The platform is 200 feet long by 18 feet wide, covered by a continuous canopy with lighting. The canopy structure is supported on individual columns, separated from the platform slab, that extend through the existing bridge deck to foundations beneath the existing bridge structure. The station amenities include seating benches, map cases, brick paving, signage and graphics, public address speakers, CCTV cameras, a passenger assistance telephone, an emergency telephone, and trash receptacles.

Canopy Structure

A 16-foot-wide continuous canopy is to cover the entire platform length. The roof of the canopy consists of a standing seam over a dovetail roof deck. The canopy roof rests on painted steel T-shaped supports and framing members. The supports are separated from the deck platform and extend through the existing bridge deck to new foundations below the existing bridge

Pedestrian Circulation

1. Stairs and Elevators.

Pedestrian access to the Pedestrian OC from the existing Plaza is to be provided via new stairs and two (2) new elevators at the north end of the OC. The elevators are to be enclosed in a glass and steel framework. Elevator doors are to open on three levels within the enclosure: (1) the 00 deck level - opening to the east; (2) the Plaza level - opening to the east; and (3) the P-1 level of the parking garage - opening to the west. The P-1 level doors will provide access to I from the existing pedestrian walkway located outside and along the west side of Metro's existing parking garage.

Construction of the stairs and elevators will require demolition of the southern two bays of the existing arcade structure located along the west side of the Plaza. A new section of the arcade structure is to be built to connect to the southern end of the remaining arcade structure.

2. Emergency Egress

New stairs are to be provided for emergency egress from the eastern end of the new station platform. The stairs will descend approximately 21 feet from the platform level to the street level below. The area at the bottom of the stairs is to be enclosed for security purposes.

Lighting

Lighting will be a key component in the experience of passengers to and from the bus platform and the existing plaza. In addition to achieving required light levels and meeting energy codes, the lighting should assist with creating a visually stimulating procession for pedestrians as well as creating visual interest for people viewing the architectural canopies and structures from adjacent areas and the plaza. Lighting is to be provided for all areas of the project including the stairways, elevator areas, Pedestrian OC, Pedestrian Ramp / Walkway, station platform, and canopies.

Signage and Wayfinding

The Contractor shall design, procure, and install all signage and wayfinding for the project. These items include identification, directional, and regulatory signage, and map cases. The identification signage includes iconic signs placed on top of the platform canopy. Signage and wayfinding is to be provided for the area of the new stairs and elevators at the south end of the Plaza, along the Pedestrian OC and Ramp / Walkway, and at the station platform and emergency egress. Signs shall conform to Metro's Signage Standards Manual and to accessibility standards under Specifications Section 00.04, Standards.

Universal Fare Collection

The project includes design and construction of provisions for future Ticket Vending Machines (TVMs), Stand Alone Validators (SAVs), and gating. The provisions include placing conduit with pull cords to service these elements. As shown in Volume III — Preliminary Engineering Drawings, provisions for future gating are to be provided at two locations. Provisions for future TVMs and SAVs are to be located at the Plaza entrance and at the level P-1 elevator entrance. Locations shown in Volume III are preliminary. Final locations are to be determined by the Contractor and approved by Metro.

LIFE OF PROJECT BUDGET: \$50,913,000:

FEDERAL GRANTS AWARDED TO PROJECT:

Grant CA04-0233: \$9,679,000 FTA Section 5309 Bus and Bus Livability Initiative Program
Grant CA90-Y716: \$1,200,000 FTA Section 5307 (CRD)

CONSTRUCTION STATUS

Metro awarded Patsaouras Plaza Busway Station Contract C0970 in February 2014 and issued Notice to Proceed (NTP) in March 2014. Contract C0970 is a Design-Build (DB) contract that originally had a 12-month contract duration for design and 18-month forecast for construction. Overall project progress is approximately 80% complete.

EXECUTIVE SUMMARY

Cost and Schedule Summary

Through the end of June, Patsaouras Plaza Busway Station is approximately 80% complete.

In May 2019, the Metro Board approved an \$11,120,000 increase to the Life-of-Project (LOP) budget, increasing the LOP from 39,793,000 to 50,913,000 including a global settlement of \$5,375,000 and a Request for Change for 87 additional calendar days to the schedule and \$1,000,000 contingency based on the remaining construction expense.

Substantial completion was originally forecast to occur in December 2017. Contractually, substantial completion is now October 2018. However, the Contractor (OHL) schedule forecasts substantial completion in May 2020. Schedule delays are due to OHL having to halt ground-level field activities (including critical path activities) from April 24, 2018 to January 7, 2019 after the discovery of human remains. All project delays have been negotiated and part of the Board approved settlement.

With the completion of the El Monte Busway Bridge widening in May 2018, the critical path (CP) continues with the Pedestrian Overcrossing structure and enclosure, followed by the completion of the Pedestrian Overcrossing amenity items.

Current Quarter Accomplishments

- Poured and stripped the emergency stairway
- Poured the Plaza level lift
- Began Bent 1 micropiling
- Excavated Bent Column C3 and Column C4
- Installed rebar cages for Columns C1, C2
- Poured Bent 5 column

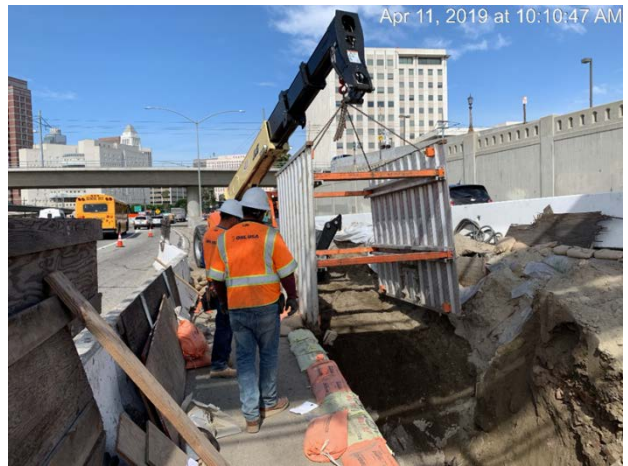
Activities Planned for Next Quarter

- Finish micropiling
- Pour Columns C1, C2
- Install rebar for Columns C3, C4
- Pour Columns C3, C4
- Pour the retaining wall
- Complete archeological investigation, evaluation, and treatment

Project Construction Photos



Protected archeological feature



Removing trench boxes and backfilling



Setting rebar cage for C1



Setting rebar cage for C2



Bent 5 concrete base column pour



Bent 1 micropile drill operation

RISK AND MANAGEMENT ISSUES

Concern No. 1: Project Schedule Re-assessment (Closed)

Status/Action This item has two implications

1. Substantial completion was contractually scheduled for December 2017 and was negotiated to November 2018. However, OHL currently forecasts it will achieve substantial completion in February 2019 and the Project Schedule currently forecasts OHL will achieve substantial completion in April 2019.
2. Obtaining concurrence on the start date for construction is necessary in order to properly evaluate Time Impact Analyses (TIAs) and to compare schedule modifications to the baseline schedule. *Parties reached an agreement for a settlement in December 2019.*

Concern No. 2: Project Cost Re-assessment (Closed)

Status/Action Professional Services costs have been reassessed as a result of the Project Schedule Re-assessment, especially agency costs. Currently any potential increase is covered by contingency. The forecast for Special Conditions continues to trend lower than the current budget and staff is studying projects with funding dedicated for specific scopes of work to fund certain portions of the construction. *Board approved a Life-of-Project Budget increase in May 2019.*

Concern No. 3: Vignes Street Closure – Vignes Re-Opened (Closed)

Status/Action The Vignes Street closure was originally from January 3, 2017 through March 31, 2017. OHL requested a three-month extension and Metro was able to extend the closure through June 30, 2017. In May 2017, OHL requested an additional three-month extension through September 30, 2017. *Vignes Street was re-opened on September 15, 2017.*

Concern No. 4: Contractor continues submitting RFCs and Claims without ROM

Status/Action OHL submits requests for change (RFC) and claims without including Rough Order of Magnitude (ROM) estimates, thus making it difficult to update budget forecasts.

Status: Resident Engineer has begun conducting weekly meetings to obtain information from OHL, but OHL has still not submitted ROMs for several RFCs. CN 5 has been open for over two years. CN 26, CN 44, and CN 45 also do not have cost proposals.

Concern No. 5: Contractor submitting incomplete progress payment requests (Closed)

Status/Action The last payment made to OHL was in July for the payment application (invoice) covering work through the end of May 2017. Since then, OHL has submitted the payment applications for June, July and August, but has not included both the conditional and unconditional waivers from its subcontractors. *Resident Engineer, Project Manager and Contract Administrator have repeatedly met with OHL to obtain these waivers from OHL but OHL will not produce them.*

Concern No. 6: Subcontractors may begin to submit Stop Notices (Closed)

Status/Action With the last payment to OHL made in July for the payment application (invoice) covering work through the end of May 2017, there is concern that OHL is not paying its subcontractors. Subcontractors may submit stop notices if they are not paid which in turn will require Metro to withhold 150% of the amount in dispute from the prime (OHL) and further exacerbate the situation. *Resident Engineer, Project Manager and Contract Administrator have repeatedly met with OHL to obtain these waivers from OHL, but OHL will not produce them.*

Concern No. 7: Environmental Services expenses are more than originally forecasted (Closed)

Status/Action During the reporting period for September 2017, Metro processed \$1.06 million in task order modifications for handling contaminated soils. *All excavation activities were completed during the reporting period.*

Concern No. 8: Paleontological Remains (Closed)

Status/Action In October 2017, Contractor encountered human remains which were found to be of paleontological significance. This has limited contractor's access to his jobsite as he now has to cordon off work area around the remains. *Staff is working to document the finding so that work can resume without restrictions. Contractor has stated that paleontological remains are not impacting schedule.*

Concern No. 9: CALTRANS Falsework Concerns (Closed)

Status/Action In November 2017, CALTRANS required falsework calculations before any pours could be made. *Issue was resolved in December 2017.*

Concern No. 10: Rebar Issues (Closed)

Status/Action In December 2017, Contractor suspended deck pours to evaluate rebar after QA/QC noticed a discrepancy during a pour. Pour was found to be OK. Other rebar was examined for compliance with drawings and Contractor proceeded with pours. *Issue was resolved and pours resumed.*

Concern No. 11: Storm Drain Exception (Closed)

Status/Action OHL installed a storm drain prior to receiving approval from CALTRANS and the location of the manhole is within CALTRANS right-of-way. CALTRANS noted that it was not per their specifications but also stated OHL could pursue a storm drain exception. In March, after OHL prepared and submitted the paperwork for the storm drain exception, CALTRANS's headquarters in Sacramento noted that exceptions are supposed to be submitted before the work is performed, not after the fact, and did not process the permit. The possibility exists that CALTRANS may require OHL to install the storm drain as per their specifications. *Closed the quarter ending December 2018. Storm drain is owned by CALTRANS.*

Concern No. 12: Finding of additional Human Remains May Impact Austin Vault (Closed)

Status/Action In February 2018, Contractor encountered human remains on the jobsite. This second set of bones was determined to be medical waste by the coroner. The site is located near a potentially historic medical college. Metro's consultants are in the process of preparing a Testing and Site Evaluation Plan in order to determine the Site's eligibility for listing on the NRHP and/or the CRHR in coordination with the FTA, SHPO, Caltrans, and Native American tribes. The finding has limited contractor's access to his jobsite as he now has to cordon off work area around the remains. Contractor found a way to access the jobsite via an alternate location. However, the locations where the bones are located will impact construction of the Austin Vault. *Closed the quarter ending December 2018. No additional human remains were discovered in the Austin vault test pits.*

Concern No. 13: Finding of bricks and during excavation of Retaining Wall (Closed)

Status/Action In May 2018, Contractor encountered bricks on the jobsite while excavating the footings for a retaining wall. These bricks were foundations of the old Los Angeles Cracker Company.

Concern No. 14: Metro Board may not approve settlement and LOP budget increase

Status/Action Staff is to develop an estimate for completion of the Patsaouras Plaza Busway Station, inclusive of the settlement, third-party agreements, consultant services, and agency costs; and prepare the corresponding Board Report. *Board approved a Life-of-Project budget increase in May 2019.*

CRITICAL PATH NARRATIVE

With the completion of the El Monte Busway Bridge widening in May 2018, the critical path continues with the Pedestrian Overcrossing structure and enclosure. Work concludes with the completion of Pedestrian Overcrossing amenity items.

JUSTIFICATION FOR SCHEDULE CHANGES

Substantial completion was originally forecast to be in December 2017. Contractually, it is currently October 2018. However, the Contractor (OHL) schedule forecasts substantial completion in May 2020.

Schedule delays are primarily due to OHL having to halt ground-level field activities (including critical path activities) from April 24, 2018 to February 4, 2019 after the discovery of human remains.

PROJECT COST STATUS

PATSAOURAS PLAZA BUSWAY STATION
PROJECT 202317
DIVISION: PROGRAM MANAGEMENT
DEPARTMENT: PROGRAM MANAGEMENT
COMBINED COST REPORT BY ELEMENT
PERIOD ENDING: June 30, 2019
DOLLARS

ELEMENT CODE	ELEMENT DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	19,992,000	-	31,495,000	-	23,907,000	2,834,000	19,402,000	1,661,000	31,494,000	(1,000)
S	SPECIAL CONDITIONS	750,000	-	1,917,000	254,000	1,568,000	43,000	1,112,000	140,000	1,913,000	(4,000)
R	RIGHT-OF-WAY	-	-	-	-	-	-	-	-	-	-
P	PROFESSIONAL SERVICES	7,425,000	-	16,501,000	1,029,000	13,884,000	1,062,000	13,094,000	92,000	15,884,000	(637,000)
PC	PROJECT CONTINGENCY	2,817,000	-	1,000,000	-	-	-	-	1,642,000	1,642,000	642,000
TOTAL PROJECT		30,984,000	-	50,913,000	1,283,000	39,359,000	3,939,000	33,608,000	3,535,000	50,913,000	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH June 30, 2019

PROJECT COST ANALYSIS

Original Budget

The original Life of Project (LOP) budget of \$16,803,000 was established in October 2011 when the project was in preliminary design. In 2013, bids for the station contract exceeded the LOP budget. Staff performed value engineering and re-bid the work, and in January 2014 the Metro Board increased the LOP budget to \$30,984,000 in order to award Contract C0970. In March 2016, the Metro Board increased the LOP budget to \$39,793,000. At that time, the project budget was allocated to match the forecasts for construction, professional services special conditions and to replenish contingency as indicated in the March 2016 Board Report.

Current Budget

In May 2019, the Metro Board increased the LOP budget to \$50,913,000. The project budget has been allocated to match the forecasts for construction, professional services special conditions and to replenish contingency as indicated in the May 2019 Board Report. During the period ending June 30, 2019 the project budget established in May 2019 did not change.

Commitments

Commitments for the entire project at the end of June 2019 were \$39.36M, an increase of \$1.28M compared to previous reporting period. There were no new commitments for construction contract C0970 from executed contract modifications. There was an increase of \$0.25 in commitments for Special Conditions due to new FY19 work orders with the City of Los Angeles. Commitments for professional services increased by \$1.03M due to task order amendments for archeological and paleontological services, and the agency labor billed during the reporting period.

PROJECT COST ANALYSIS (Continued)

Expenditures

Through June 30, 2019, Metro has incurred \$33.61M in cumulative expenditures. Expenditures increased \$3.94M since the last reporting period. Construction expenditures this reporting period were \$2.83M as Metro paid six construction invoices since the start of the year. Third Party expenditures totaled \$43K and were the result of invoices from the City of Los Angeles for work performed under existing work orders. The balance of expenditures since the last reporting period, or \$1.06M was for professional services that included materials testing, paleontological monitoring, document control, scheduling support, and agency labor.

Current Forecast

The overall project forecast was reset by the Life-of-Project budget increase approved by the Metro Board in May 2019. This quarter:

- The forecast for Construction is \$31,494,000
This increase includes the \$5,375,000 settlement, contract modifications currently being processed, and items for which a Change Notice (CN) has not yet been issued.

As noted in the Quarterly Report for the Period Ending March 31, 2018, Metro is using a separate project number to pay for work related to the elevators. All outstanding claims as of December 2018 were included as part of the \$5,375,000 settlement.

- The forecast for Special Conditions is \$1,913,000
This includes budget for an additional year (FY20) of work orders with the City of Los Angeles.
- The forecast for Professional Services is \$15,864,000
The forecast includes additional archeological and paleontological monitoring, construction management support services (CMSS), and Metro agency costs. The primary driver of the increase is Metro agency labor estimated to cost the agency 1,375,000.
- The forecast for Contingency is \$1,642,000
The forecast is slightly better than the approved \$1,000,000 approved by the Board due to a slight dip in the forecast for professional services.

SUMMARY OF EXECUTED CONTRACT MODIFICATIONS

Modification	Description	Amount (\$)
1	General Requirements	-
2	CN2 Update SP-27 and Section 01200	-
3	Revise Contract Compliance Manual	-
4	CN7 – Redesign extra work – RFC03 Supplemental PSR/PR	93,450
5	CN6 – Emergency Power to Light Fixtures	79,424
6	CN3 – LED Fixture Change	8,877
7	CN4 – RFC010 – Potential Source Change	173,151
8	CN14 – Ramirez Street Design	60,900
9	CN9.1 – RFC7 – Construction 2 Lanes West with 1 Lane East	614,968
10	CN10.1 – Construction change	3,505,769
11	CN16 – Design of 2 Lanes West & 1 Lane East	51,570
12	CN17 – Redesign of Structural Footings	188,926
13	CN11 – ADA Tactile Pathway	57,000
14	CN12 – CRZ Installation of Bollards at Bus Platform	190,000
15	CN15 – Added Design for Storm Drain Manholes	31,733
16	Mitigation of Concurrent and Compensable Delays	548,000
CO 6 (Mod 17)	CN 36 – TIA through May 12 (1/3/2017 – 5/12/2017)	124,000
CO 7 (Mod 18)	CN 25 – 8 th Water Line Relocation (Sewer Conflict)	244,000
20	Denny's Signage	2,846
21	RFC 51/53/54 Obstructions at Bent 9LT and Bent 8LT	95,217
22	Obstruction at Bent 5 Pedestrian Bridge	7,203
23	Obstruction at Bent 6 Pedestrian Bridge	7,620
24	Obstruction at Bent 4 Pedestrian Bridge	9,197
25	Additional Obstruction at Bent 4 Pedestrian Bridge	70,952
26	Additional Drainage Protection	4,016

**SUMMARY OF CHANGE NOTICES ISSUED AND NEGOTIATED
(BUT CONTRACT MODIFICATIONS NOT EXECUTED)**

CN	Description	Amount (\$)
27	RFC 38 – 60” Steel Line Relocation	95,000
29	RFCs 43/45/47/48	141,545
38	RFC 63 – DSC Concrete Slab and Steel Pipe at Storm Drain	11,154
45.1	Global Settlement	5,375,000
46.1	Archeological Delays beyond February 15, 2019	625,000

SUMMARY OF CHANGE NOTICES ISSUED BUT NOT NEGOTIATED

CN	Description	Amount (\$)
	None at this time	

REQUEST FOR CHANGES (RFCs) THAT MAY BECOME CNs

CN	Description	ROM (\$)
40*	RFC 44 – Contaminant Testing Drilling Slurry	52,770
41*	RFC 68 – Frame 2 and Frame 3 Falsework Certifications	17,048
42*	RFC 69 – Falsework Requirements Frame 1 and Frame 2 Left	1,414
43*	RFC 80 – Additional Removal at Retaining Wall	45,234
44*	RFC 81 – Directive to Stop Micropile Work	Part of Settlement
45*	RFC 83 – Environmentally Sensitive Area	Part of Settlement
n/a*	RFC 49 – Multiple Unknown Utilities at SD tie-in	11,470
n/a*	RFC 82 – Existing Sidewalk at elevator Footing	7,856
	* CN number has not been assigned to this RFC	

FINANCIAL/GRANT STATUS

SOURCE	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
	BUDGET	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS		EXPENDITURES		BILLED to FUNDING SOURCE	
	(\$)	(\$)	(\$)	\$	%	\$	%	\$	%
FEDERAL - BUS LIVABILITY SECTION 5309	9,679,000	9,679,000	9,679,000	9,679,000	100%	9,679,000	100%	9,679,000	100%
FEDERAL - SECTION 5307	1,200,000	1,200,000	1,200,000	1,200,000	100%	1,200,000	100%	1,200,000	100%
PROP C 40%	300,000	300,000	300,000	300,000	100%	300,000	100%	300,000	100%
PROP C 25% HIGHWAY	17,623,000	17,623,000	17,623,000	17,623,000	100%	18,336,000	104%	18,336,000	104%
PROP C 25% DEBT	8,809,000	8,809,000	8,809,000	5,348,000	61%	878,000	10%	878,000	10%
RAMIREZ FLYOVER (UNION STATION ESCROW)	3,215,000	3,215,000	3,215,000	3,215,000	100%	3,215,000	100%	3,215,000	100%
TOTAL	40,826,000	40,826,000	40,826,000	37,365,000	92%	33,608,000	82.3%	33,608,000	82.3%

NOTE: Expenditures are cumulative through June 2019