



**Board Report**

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**File #:** 2019-0168, **File Type:** Informational Report

**Agenda Number:** 27.

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**CONSTRUCTION COMMITTEE  
APRIL 18, 2019**

**SUBJECT: PROGRAM MANAGEMENT QUARTERLY CHANGE REPORT**

**ACTION: RECEIVE AND FILE**

**RECOMMENDATION**

RECEIVE AND FILE status report on Program Management Quarterly Change Report.

**BACKGROUND**

At the January 26, 2018 Board meeting, the Board approved the continuation and expansion of the delegation of authority within Life of Project (LOP) budget management on all Transit and Regional Rail Capital Projects. Staff was directed to provide quarterly reports to the Board on change orders and modifications that are above \$500,000.

**DISCUSSION**

The change activities for the reporting period between December 1, 2018 and February 28, 2019 are included in Attachment A.

**FINANCIAL IMPACT**

The changes included in this report are included in the approved life-of-project budget for each project.

**IMPLEMENTATION OF STRATEGIC PLAN GOALS**

Recommendation supports strategic plan goal # 5 to provide responsive, accountable, and trustworthy governance within the Metro organization by keeping the Board informed of the Projects' change orders and modifications via submitting the Change Order log on a quarterly basis.

**NEXT STEPS**

The next Change Order Log will cover the period of March 1, 2019 to May 31, 2019 and will be presented to the July 2019 Construction Committee.

## ATTACHMENTS

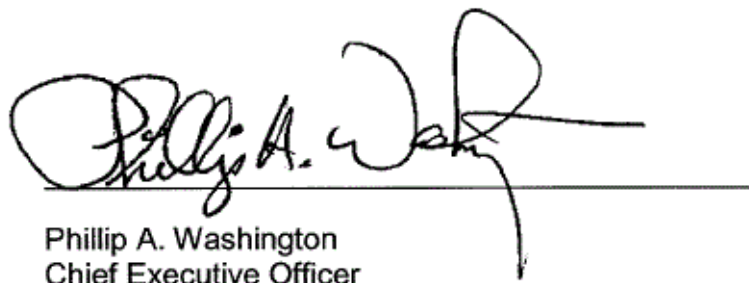
Attachment A - Quarterly Change Report for Reporting Period of December 1, 2018 - February 28, 2019.

Prepared by:

- **Crenshaw/LAX** - Sameh Ghaly, Sr. EO Project Mgmt., (213) 418-3369
- **Regional Connector** - Gary Baker, EO Project Mgmt., (213) 893-7191
- **Westside Purple Line Ext 1** - James Cohen, EO Project Mgmt., (213) 922-7911
- **Westside Purple Line Ext 2** - Michael McKenna, EO Project Mgmt., (213) 312-3132
- **Westside Purple Line Ext 3** - Kimberly Ong, EO Project Mgmt., (213) 922-7382
- **The New Blue** - Timothy Lindholm, EO Project Engr., (213) 922-7297
- **Patsaouras Plaza Busway Station** - Timothy Lindholm, EO Project Engr. (213) 922-7297
- **Report** - Brian Boudreau, Sr. EO Program Control, (213) 922-2474

Reviewed by:

Richard Clarke, Chief Program Management Officer, (213) 922-7557



Phillip A. Washington  
Chief Executive Officer

## CRENSHAW/LAX TRANSIT PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment 2 - Third Party 3 - Differing Site Conditions 4 - Regulatory Requirements 5 - Scope 6 - Value Engineering 7 - Safety

#### A. DESIGN BUILD CONTRACT - Contract No. C0988 - WALSH SHEA CORRIDOR CONSTRUCTORS (WSCC)

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts that is why this is unilateral and a modification will follow upon negotiation is finalized between Contractor and Metro).	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
MOD-00402	<u>Provisional Payments-Pending Dispute Resolution Fire Rated Cable Change Orders 46.5, 173.3, 175.3, 176.3 and 177:</u> <b>The Work provides for installation of conduit and cable for the emergency ventilation and lighting systems. Metro and WSCC (Parties) enter into a written agreement regarding unilateral Change Orders 46.5, 173.3, 174.3, 175.3, 176.3 and 177.</b>	7	12/14/2018	12/14/2018	N/A	\$15,000,000.00
MOD-00403	<u>Fire Hydrant (FH) Relocations FH COI Near La Brea and Settlement of Claims No. 67, 77 and 108:</u> Contractor shall provide all the labor, material and equipment to design and relocate Fire Hydrants in accordance with approved for construction design documents. The fire hydrant relocations are necessary to resolve conflicts with the street improvements required by the Cities of Los Angeles and Inglewood.	7	12/14/2018	1/19/2019	\$925,760.39	\$810,000.00

#### B. PROFESSIONAL SERVICES CONTRACT - Contract E0117 - MOTT MACDONALD, LLC

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

#### C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACT -

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	CONTRACT MC069 - STANTEC CONSULTING, INC.					
CN-00119 MOD-00018	<u>CONSTRUCTION MANAGEMENT SUPPORT SERVICE (CMSS) - ADDITIONAL FUNDING:</u> Revise current contract work order value for CWO16 Crenshaw/LAX from \$66,330,445.72 to \$83,991,492.35 by increasing \$17,661,046.63 to cover forecasted construction needs from March 1, 2019 through June 30, 2020.	5	12/14/2018	1/29/2019	N/A	17,661,046.60

#### D. OTHER AGREEMENTS

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

## II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)

A. DESIGN BUILD CONTRACT - Contract No. C0988 - WALSH SHEA CORRIDOR CONSTRUCTORS			
CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
MOD-00304	<u>Back Charge for Metro payments to COLA for in scope of contract TCO Services</u> : This credit change is to back charge WSCC for Traffic Control Officers (TCO) for the period of January 2014 thru June 30, 2017 (paid by Metro to LADOT per the Master Cooperative Agreement with City of Los Angeles.)	5	Credit between \$1M and \$5M
CO-00046.5	<u>Underground Conduit and cable for Emergency Ventilation and Emergency Lighting</u> : Metro will compensate WSCC for the additional shop drawing related costs; for preparing, researching and developing a viable solution related to the Underground Fire Rated conduit/cable work	7	Between \$500K - \$1M
CO-00129	<u>Elimination Of Crossover at Sta 56+57.50 (North of 104th Street)</u> : Eliminate the crossover at Sta. 56+57.50, north of 104th (or sought of Aviation/Century Station) and provide a credit to Metro labor, material and equipment, testing and commissioning to furnish and install crossover.	6	Credit between \$500K - \$1M
CO-00173.6	<u>Fire Rated Conduit and Cable for Tunnel Emergency Lighting</u> : Provide procurement and construction of additional wires and junction boxes for intermediate metal and conduit for emergency lighting at underground tunnels.	4	Between \$1M and \$5M
CO-00175.3	<u>Underground Conduit and cable for Twenty (20) UG3 and UG4 Tunnel Booster</u> : WSCC and its subcontractors shall provide elements of the two (2) UG1 Gas Mitigation Fans (GMF) and the four (4) UG4 and sixteen (16) UG3 Tunnel Booster Fan (TBF) work Metro believes to be impacted by the UL 2196 delisting and includes authorization to begin procurement of materials and immediate construction thereof. In addition, this Change Order also considers the effects of RFSC #10 that is in the process of being approved by Metro's FLS Department (the AHJ).	4	Between \$500K - \$1M
CO-00209.1	<u>Preliminary 45 Day Acceleration</u> : Contractor shall accelerate schedule critical activities at specified locations over the next 45 days to benefit the project's schedule. The estimated period of performance is from Mar 12, 2018 to April 25, 2018. Contractor is behind schedule. Contractor and Metro have identified work activities to accelerate that will benefit the Project's schedule.	5	Between \$5M and \$10M
CO-00227	<u>Relocate 24" DWP Water Main at MLK Station</u> - Construction: Contractor shall provide all labor, equipment and materials needed to relocate the 24" water main at MLK Station per an alignment provided by Metro/DWP. Contractor shall use an approved DWP Water subcontractor for the work. Scope of work includes survey and traffic control as necessary.	1	Between \$500K - \$1M

B. PROFESSIONAL SERVICES CONTRACTS			
CHANGE NOTICE/ORDER #	DESIGN SERVICES DURING CONSTRUCTION - Contract No. AE47810E0128 - SECOTRANS, JOINT VENTURE	Change Type	Rough Order of Magnitude Cost
CN-00004 MOD-00004	<u>Crenshaw Design Services During Construction (DSDC)</u> : Due to the specialty nature of Rail Systems work, it has been requested by the Crenshaw Project Management that consultant support is needed to support DSDC activities as they arise. Consultant shall provide DSDC support for the Crenshaw/LAX Transit Project (Crenshaw Project). Various rail systems disciplines listed in Contract No. AE47810E0128 may be utilized to complete this Scope of Work in support of the Crenshaw project until its completion, which is currently projected for 2019. The Consultant shall provide the support services as requested by the Crenshaw Project. See attached detailed Scope of Work (SOW).	4	Credit between \$500K - \$1M

## REGIONAL CONNECTOR TRANSIT PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment   2 - Third Party   3 - Differing Site Conditions   4 - Regulatory Requirements   5 - Scope   6 - Value Engineering   7 - Safety

#### A. DESIGN BUILD CONTRACT - Contract No. C0980 - REGIONAL CONNECTOR CONSTRUCTORS

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

#### B. PROFESSIONAL SERVICES CONTRACT

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

#### C. OTHER AGREEMENTS

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

## II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K

### A. DESIGN BUILD CONTRACT C0980 - Regional Connector Constructors

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
C0980-CN-00099	REVISE 2ND/HOPE STATION PEDESTRIAN- CONSTRUCTION: Construct the 2nd/Hope Pedestrian Bridge in accordance with revised design.	1	Between \$1M and \$5M
C0980-CN-00111	ADDITIONAL ACOUSTICAL TREATMENTS FOR AREAS NOT SPECIFIED IN THE PROJECT: Construct additional acoustical treatments in all stations beyond what was indicated in the Contract Documents. This change includes approximately 92,471 SF of additional acoustical treatments.	5	Between \$1M and \$5M
C0980-CN-00145	ADD WYE JUNCTION FAN PLANT - CONSTRUCTION: Construct an additional fan plant at the 1st & Alameda Junction (also referred to as the "wye") based on the following approved MODs: C0980-MOD 0033/CN 00053.2 Add "Wye" Junction Fan Plant Design Only and C0980-MOD 0087/CN-00108 Revision to Wye Junction Fan Plant Design. This work also includes the elimination of the previously designed eight tunnel booster fans with all associated mechanical, electrical and system components.	5	Between \$10M and \$15M
C0980-CN-00192	REVISE COMMUNICATION RADIO SYSTEM (CONSTRUCTION): Contractor shall provide all labor, materials, and equipment to construct the Revised Communications Radio System based on Mod 65/CN51.1 (Revised Communications Radio System - Design only).	5	Between \$1M and \$5M
C0980-CN-00195	TBM PIT INVERT REMOVAL: Contractor shall provide all labor, equipment, materials, and supervision to remove the concrete invert located in the TBM pit and prepare the area for backfill operations.	5	Between \$500K and less than \$1M
C0980-CN-00198	CONSTRUCT THE 2ND/BROADWAY STATION OVERBUILD LOAD TRANSFER SYSTEM: Contractor shall provide all labor, equipment, materials, and supervision to construct the entrance structure overbuild Load Transfer System as depicted on ECI 62, revised DU07 2nd/Broadway Station engineering plans.	5	Between \$1M and \$5M
C0980-CN-00199	INSTALLATION OF PILE GAP BACKFILL WALL AT ALAMEDA: Contractor shall provide all labor, equipment, materials, and supervision required to backfill the area between the back face of the permanent structure's wall and the existing support of excavation where the piles were require to be shifted due to utility conflicts within the Alameda Wye. The backfill will consist of 4000 psi concrete and should be formed to the top of permanent structure.	5	Between \$500K and less than \$1M
C0980-CN-00200	EASTSIDE ACCESS IMPROVEMENT PROJECT - ALAMEDA ESPLANADE: Contractor shall provide all labor, associated equipment, materials, and supervision necessary to construct the USDOT "TIGER"-funded Metro Eastside Access Improvement Project (EAIP) "Segment 2" improvements along Alameda Street between, along, and including the intersections of Alameda Street/1st Street, Alameda Street/Temple Street, and Alameda Street/Commercial Street. The subject improvements are described in the attached Contract AE11938 1ST/CENTRAL STATION IMPROVEMENT DESIGN SEGMENT 2 plans and specifications, developed and furnished separately by Metro's EAIP team. The Metro-furnished plans and specifications shall supersede those previously developed by the Contractor where overlap occurs. Project anticipates full reimbursement of cost incurred.	5	Between \$1M and \$5M
C0980-CN-00201	CONSTRUCT RACKING SYSTEM AND PARKING LOT IMPROVEMENTS AT THE LADWP DUCOMMUN YARD: Contractor shall provide all necessary labor, materials, equipment and supervision to construct the outdoor storage racking system and parking lot improvements within LADWP's Ducommun Yard facility, as depicted in the attached engineering plans. All engineering plans for this work will be furnished by Metro, stamped by Metro's professional engineer, and approved for construction by LADWP and Metro.	1	Between \$500K and less than \$1M

**B. PROFESSIONAL SERVICES CONTRACTS**

## Design Support Services During Construction

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

**C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

**D. OTHER AGREEMENTS**

MOD/CHANGE #	DESCRIPTION	Change Type	Submission	Approval Date	Contractor's	Approved Amount
N/A	EXTENSION OF MANGROVE LEASE WITH CITY OF LOS ANGELES	N/A	N/A	TBD	N/A	Between \$10M and \$15M
N/A	PERMANENT EASEMENT FOR FAN PLANT AT MANGROVE	N/A	N/A	TBD	N/A	Between \$1M and \$5M
N/A	MITIGATIONS FOR ENCROACHMENT UPON LADWP SERVICE FACILITIES	N/A	N/A	TBD	N/A	Between \$1M and \$5M
N/A	PERMANENT EASEMENT FOR PLACEMENT OF MSE WALL AND BRIDGE RAMP ONTO LADWP PROPERTY	N/A	N/A	TBD	N/A	Between \$1M and \$5M

## WESTSIDE PURPLE LINE EXTENSION - SECTION 1 PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment 2 - Third Party 3 - Differing Site Conditions 4 - Regulatory Requirements 5 - Scope 6 - Value Engineering 7 - Safety

#### A. DESIGN BUILD CONTRACT - CONTRACT NO. C1045 - SKANSKA-TRAYLOR-SHEA (STS), A JOINT VENTURE

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts)	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
MOD-71	<u>Golder Gas Investigation and Report</u> : Change to accommodate additional geotechnical field work, analysis and investigation.	5	11/20/18	12/17/2018	\$831,028.00	\$787,979.00
MOD-72	<u>Tunnel Reach 3 Additional Gas Testing and Assessment</u> : This MOD covers the costs for the Contractor to conduct additional gas testing to determine the extent and efficiency of the contractors proposed methods of extraction.	7	01/14/19	1/30/2019	\$2,060,221.00	\$1,697,789.00
MOD-74	<u>Additional Instrumentation (Project Wide) as requested by LABOE and STS Engineer of Record (EOR)</u> : This change accommodates the additional instrumentation required to help mitigate any risks associated with the potential of higher than predicted groundwater related settlement. This instrumentation has been requested by both the Design-Builder and LABOE.	5	02/08/19	2/28/2019	\$3,997,241.00	\$2,819,620.00

#### A. DESIGN BUILD CONTRACT - CONTRACT NO. C1078 - CLARK CONSTRUCTION GROUP

	None					
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## II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)

### A. DESIGN BUILD CONTRACT - CONTRACT NO. C1045 - SKANSKA-TRAYLOR-SHEA, A JOINT VENTURE

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
CN-43.5	<u>Isolate Ansaldo and Alstrom Track Circuits @ Wilshire/Western - Part 1</u> : The Contractor will provide a separation between Ansaldo and Alstrom Track Circuits at the Wilshire/Western and Wilshire/Normandie Train Control territories. This change avoids potential safety hazards related to track circuit failures when equipment is mixed between two different manufacturers.	7	Between \$500K - \$1M
CN-66	<u>La Brea - Additional Dewatering Treatment and Discharge Costs</u> : The Contractor has encountered two different 'Differing Site Conditions' (DSC) that have resulted in additional costs to operate and maintain the dewatering systems.	5	Between \$5M - \$10M
CN-68	<u>Increased Ventilation of Station Ancillary Rooms</u> : Change to increase the ventilation requirements at the station stairs and corridor areas to accommodate surrounding soils.	5	Between \$1M - \$5M
CN-77.1	<u>Additional Interpretation for Building Settlement</u> - Project Wide: The additional instrumentation required by Metro and LABOE will require additional reporting and analysis by the contractor. This change will accommodate the additional analysis and reporting.	5	Between \$1M - \$5M
CN-78.1	<u>Fairfax - DWP Ductbank Conflicts with Deck Beams</u> : The location of LADWP ductbanks at Wilshire/Fairfax Station were higher than indicated on the as-built drawings. This change accommodates the mitigation efforts needed to remediate the higher ductbank.	5	Between \$500K - \$1M
CN-79	<u>Western - Property Status Change (Fee to TCE) Impacts, Parcel W-0103</u> : Accommodates the change in parcel handoff status from a 'Fee Take' to a 'Temporary Construction Easement' (TCE).	5	Between \$500K - \$1M
CN-80.1	<u>Wilshire/La Cienega - Emergency Generator Enclosure (Design and Construction)</u> : This change allows the contractor to design and install the materials and equipment necessary to improve the aesthetics around the Wilshire/La Cienega Station stand-by generator. This CN is part an agreement with the City of Beverly Hills, and is not considered a betterment.	5	Between \$500K - \$1M
CN-83	<u>Western - Additional Dewatering and Treatment</u> : To accommodate the higher than expected groundwater inflows experienced at the Wilshire/Western shaft.	5	Between \$1M - \$5M
CN-84	<u>Western – Impacts from Metro SOE Deviation Request</u> : Provides new/revised criteria that the Contractor must now use for the design and evaluation of the Support of Excavation (SOE) for the Wilshire/Western Retrieval Shaft.	5	Between \$500K - \$1M
CN-87	<u>La Brea - Bracing Impacts due to DWP ductbank (ECI-004)</u> : Accommodates the re-installation of four struts at Wilshire/La Brea Station due to conflicts with the existing electrical ductbanks.	5	Between \$1M - \$5M
CN-93	<u>La Brea - Center Access Shaft - Design and Construction Costs (incl ECI-003)</u> : Construction of a central muck shaft on Wilshire Blvd at La Brea Station to help increase station excavation rates and facilitate material placement.	5	Between \$500K - \$1M

CN-99	<u>Oil Well Horizontal Investigation in lieu of TBM Probe-ahead</u> : Change to accommodate horizontal directional drilling to locate abandoned oil wells.	5	Between \$1M - \$5M
CN-122	<u>Alternative Soil Disposal</u> : This change covers the additional fees for the disposal of clean and contaminated non-hazardous soils due to the change in the Conditional Use Permit (CUP) by the County of Los Angeles.	5	Between \$5M - \$10M
CN-126	<u>Fairfax Paleo Zone Modified Limits</u> : The contract required that Fairfax Station excavation in the identified Paleo zone be restricted to 6 inch lifts to allow for identification and protection of any Paleo artifacts. The actual paleo zone identified by the Metro paleontology consultant was more extensive than anticipated in the base contract.	3	Between \$1M - \$5M
TBD	<u>Western -Systems - ROC CTS Equipment</u> : This CN allows the contractor to install the equipment required to integrate the existing Emergency Management System (EMS) at Wilshire/Western and Wilshire/Normandie Stations with the WPLE Section 1 project. This scope of work was previously to be performed by Metro Operations.	5	Between \$500K - \$1M
TBD	<u>Track Crossovers - Construction</u> : Metro provided the contractor with a revised double crossover geometry to include into the base scope of work. This change accommodates the costs associated with installing the fully guarded crossover.	5	Between \$500K - \$1M
TBD	<u>Isolate Track Circuits at Wilshire/Western Part 2</u> : This change has been implemented to avoid potential safety hazards related to track circuit failures when equipment is mixed between two different manufacturers.	7	Between \$500K - \$1M
TBD	<u>Wayside Signage - Additional Design / Fabrication / Installation</u> : This change accommodates the revisions that need to be made so that the WPLE Section 1 signage is consistent with Metro signage standards.	5	Between \$1M - \$5M
TBD	<u>La Cienega - Dewatering DSC (Letter 663)</u> : This change covers Differing Site Conditions (DSC) related to groundwater dewatering at the La Cienega Station site.	3	Between \$1M - \$5M

**A. CONTRACT NO. C1078 - CLARK CONSTRUCTION GROUP**

CN-28	<u>Revised Low Impact Development (LID) Construction</u> : Two (2) contaminated groundwater plumes were discovered under the Location 64 site. To avoid further contamination of the local ground water, the design-builder was directed to revise the LID design.	3	Between \$500K - \$1M
TBD	<u>Revised Metro IT &amp; AV Work</u> : The Metro IT standards included in the 2014 C1078 Preliminary Design Documents (PDD) have been replaced by an updated version.	5	Between \$500K - \$1M

**B. PROFESSIONAL SERVICES CONTRACTS**

CHANGE	DESCRIPTION	Change Type	Rough Order of Magnitude
	None		

**C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

## WESTSIDE PURPLE LINE EXTENSION - SECTION 2 PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment   2 - Third Party   3 - Differing Site Conditions   4 - Regulatory Requirements   5 - Scope   6 - Value Engineering   7 - Safety

#### A. DESIGN BUILD CONTRACT - C1120

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts)	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
MOD-00032	<u>Environmental Impairment Liability Site Coverage Insurance</u> : Contract C71493000C1120 Special Provisions Article SP-6, Insurance Requirements, provides that the Contractor shall bind an Environmental Impairment Liability Site (Pollution Legal Liability) Insurance policy within 60 days of Metro issuance of a Change to the Contract. Metro has now determined that this policy will be beneficial to the Purple Line Extension Section 2 Project and should be implemented.	5	12/28/18	1/25/2019	\$562,854.00	\$562,854.00

#### B. PROFESSIONAL SERVICES CONTRACT

MOD/CHANGE #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
MOD-00067	Continuation of Engineering Support Services During Construction	5	1/25/2019	2/28/2019	\$13,656,522.00	\$11,996,369.00

**II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)**

**A. DESIGN BUILD CONTRACT - C1120**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
CN-00034	<p><u>Station and Bicycle Parking Architectural Features Design and Construction changes at WR and CCC Stations:</u> This change was requested by Metro Planning. Several architectural updates have been made to the Metro Rail Design Criteria (MRDC) since the version that was included in the C1120 Contract. Some of these architectural updates are now incorporated into the final design of the stations on the Westside Purple Line Extension Section 1. This change notice provides clarifications to the station and bicycle parking architectural requirements that allow the final design to be consistent with recent updates to the MRDC, with WPLE1, and with the latest Metro Bike Hub System.</p>	5	Between \$500K and \$1M
CN-00035	<p><u>Revision to Average Depth of Seismic Borings Along Wilshire Blvd. on Tunnel Reach 5:</u> The 20 planned and required borings were divided into two phases consisting of 10 borings each. The borings in Phase 1 are now complete. The findings from Phase 1 were then used to refine the proposed depths and locations of the remaining Phase 2 borings. The total number of borings remains the same, but the average depth was increased by 50 feet. This change is necessary in order to complete the geotechnical investigation needed to determine the potential placement of additional special tunnel liner. Metro benefits because the new average depth will improve our ability to find critical information about where and how the seismic fault may cross the WPLE2 alignment at a different location.</p>	5	Between \$500K and \$1M
CN-00042	<p><u>Changes to Enclosed Bicycle Parking and Map cases at Wilshire/Rodeo and Century City Stations:</u> Design and Construction: These changes were requested by Metro Planning. The new data and communications provisions to all map cases have been incorporated into the latest version of the Metro Rail Design Criteria (MRDC) and have also been incorporated into the final design of the stations on WPLE1. As for the Bike Hub, the latest MRDC lacks adequate specifications to design and construct the security access control. In addition, recently opened Bike Hubs and new Bike Hubs under design are incorporating the design requirements provided in this Change Notice. Therefore, this change notice is necessary to provide direction and performance requirements that allow the final design to be consistent with recent updates to the MRDC, with WPLE1, and with the latest Metro Bike Hub System.</p>	5	Between \$500K and \$1M
CN-00045	<p><u>Century City Constellation Station Main Entrance - Construction:</u> When the Project Definition Documents (PDD) were prepared, JMB's proposed development did not have a clear and definitive scope. JMB subsequently developed their plans, closely coordinated with Metro, and the final location of the entrance to the Century City Constellation Station and related easement on JMB's property was established. The revised entrance brings benefit to Metro by requiring less real estate acquisitions costs and by utilizing a smaller area more efficiently to provide a sufficient entrance plaza for users. It also provides an enhanced and well defined bike hub.</p>	5	Between \$5 and \$10 Million
CN-00047	<p><u>Century City Constellation Station West Ancillary and OPE Reconfiguration - Construction:</u> The Project Definition Documents (PDD) included Over Platform Exhaust (OPE) with grate locations shown on private property (across from Solar Way, north of Constellation Boulevard). This would have required acquisition of an easement agreement from Westfield Mall. As a result of updated MRDC design criteria, it is now possible to reconfigure the OPE appendages and grates to be located in sidewalks of Constellation Boulevard. This eliminates the need for an easement and reduces the construction costs. It removes 270 ft of air plenum and adds a 67 ft high vertical shaft. The station end wall is squared off and the full depth station excavation/construction is reduced by approximately 80 ft over BR track and 6 ft over BL track. It also includes interchanging the ancillary power room with the battery room, and moving the mechanical room to the concourse level. This change benefits Metro by eliminating installations on private property and interaction with Third Parties.</p>	5	TBD Credit

CN-00054	<u>MOA Work Hour Requirements For Fault Investigation Borings</u> : The City of Beverly Hills permit for fault investigation borings incorporated revised requirements for hours of work and holiday moratorium which were not in the original contract	2	Between \$500K and \$1M
CN-00055	<u>Century City Constellation Station West Ancillary and OPE Reconfiguration</u> : This change is in support of Change Notice 1 (C1120-CN-00001.1), Contract Modification 2 (C1120-MOD-00002) Constellation Station West Ancillary & OPE Reconfiguration. CN-00001.1 provided for relocating the OPE gratings from Westfield Mall private property (Parcel W-3903) to be within public right of way. The relocated OPE has been found to conflict with a 42-inch storm drain. This Change Notice provides for maintaining a corridor for the storm drain.	5	Between \$500K and \$1M

<b>B. PROFESSIONAL SERVICES CONTRACTS</b>			
CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

<b>C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS</b>			
CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

<b>D. OTHER AGREEMENTS</b>			
MOD/CHANGE #	DESCRIPTION	Change Type	Rough Order of Magnitude
TBD	<u>Temporary Right of Entry</u> - This agreement is to grant temporary access prior to obtaining an executed temporary construction easement (TCE) for the AT&T property located at 2010 Century Park East. Once the TCE is executed, access to the site would be available for the duration of the Project.	2	Between \$500K and \$1M

## WESTSIDE PURPLE LINE EXTENSION - SECTION 3 PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:  
 1 - Betterment   2 - Third Party   3 - Differing Site Conditions   4 - Regulatory Requirements   5 - Scope   6 - Value Engineering   7 - Safety

<b>A. DESIGN BUILD CONTRACT - C1151</b>						
MOD/CHANGE #	DESCRIPTION <small>(if the change is a unilateral, explain in <b>BOLD</b> fonts)</small>	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
None						

<b>A. DESIGN BUILD CONTRACT - C1153</b>						
MOD/CHANGE #	DESCRIPTION <small>(if the change is a unilateral, explain in <b>BOLD</b> fonts)</small>	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
None						

<b>B. PROFESSIONAL SERVICES CONTRACTS</b>						
MOD/CHANGE #	DESCRIPTION <small>(if the change is a unilateral, explain in <b>BOLD</b> fonts)</small>	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
None						

**II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)**

**A. DESIGN BUILD CONTRACT - C1151**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
CN-01	<u>Revise the Tail Track Exit Shaft Location from the U.S. Army Reserve to the Veterans Affairs (VA) Property:</u> Metro requested this change based upon the Department of the Army declining Metro's request for easement at the U.S. Army Reserve, required for the Tail Track Exit Shaft as part of the tunnel construction operations. The U.S. Army Reserve requested the VA's determination of their ability to accommodate Metro's proposed facilities on the VA property. Metro provided a memo to the VA, outlining alternatives for the location of the shaft and tunnel construction staging areas on the VA property. A letter from the VA stated that the VA could accommodate tunnel construction operations on the western edge of the VA property provided that the only permanent Metro presence within the VA Historic District is the access shaft and associated surface exit hatch and surface ventilation plenums. Therefore, Metro must revise the Contract Documents to relocate the Tail Track Exit Shaft to complete the tunnels.	5	Between \$1 to \$5 million
CN-02	<u>Revisions to Southern California Edison (SCE) Power Connection:</u> This change is necessary because Metro was required to move the construction staging area and Tail Track Exit Shaft from the U.S. Army Reserve site to the Western VA Construction Staging Area (refer to CN-001). In addition, SCE changed their original scheme to require the entire conduit run along Federal Ave to be underground to enhance reliability of the power that will be provided to Metro and the C1151 Contractor. LA County requested that Metro not disturb Federal Ave twice for the Purple Line construction so that they can perform street/pavement work on Federal Ave sometime after the SCE power connection is installed for C1151. Combining the conduits in one trench will also reduce disturbance to the surrounding community. Additional information on existing utilities shows that there is insufficient space along the north side of Ohio Ave to accommodate the conduit, so the conduit alignment is moved closer to the center of the street. Therefore, Metro must revise the Contract Documents for the SCE power connection.	5	Between \$1 to \$5 million

**A. DESIGN BUILD CONTRACT - C1153**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

**B. PROFESSIONAL SERVICES CONTRACTS**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

**C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

## METRO BLUE LINE- SIGNAL SYSTEM REHABILITATION PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment   2 - Third Party   3 - Differing Site Conditions   4 - Regulatory Requirements   5 - Scope   6 - Value Engineering   7 - Safety

#### A. DESIGN BUILD CONTRACT - Contract C1081 - Mass Electric

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts)	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
MOD 2 (CN-005)	<p><u>Willowbrook/Rosa Parks Train Control (TC) Modifications -</u>                      Extension of the Blue Line Platform is forcing the systems components to be moved. Staff will issue a Contract Modification to the existing Resignalling Contract C1081 to perform system-related work <u>after</u> the Blue Line Platform is extended by Contract C1161. Work is being done under Contract C1081 because Contract C1161 does not have the expertise to perform the necessary systems-related work.</p> <p>Work will be paid using Project 210151 not 205108.</p>	5	6/22/2018	6/22/2018	\$636,305.00	\$636,305.00



**II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)**

<b>A. DESIGN BUILD CONTRACT - Contract C1081 Metro Blue Line Resignalling - Mass Electric</b>			
<b>CHANGE NOTICE/ORDER #</b>	<b>DESCRIPTION</b>	<b>Change Type</b>	<b>Rough Order of Magnitude Cost</b>
CN-006 (Replaces CN-4 which was cancelled - there is no CN-5)	<u>Train Control at Florence C&amp;S Bungalow –</u> This CN is for Modifications on the Train Control Scope to include the installation of the clean agent fire suppression system in the new train control bungalows. Documents affected: Scope Modifications to Section 01 11 00 of the Scope of Work, Subsection 1.03.A.3	5	\$1,200,000.00

<b>B. PROFESSIONAL SERVICES CONTRACTS</b>			
<b>CHANGE NOTICE/ORDER #</b>	<b>DESCRIPTION</b>	<b>Change Type</b>	<b>Rough Order of Magnitude Cost</b>
SECOTRANS - Task Order 6	Design Support During Construction	5	\$1,400,000.00

<b>C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS</b>			
<b>CHANGE NOTICE/ORDER #</b>	<b>DESCRIPTION</b>	<b>Change Type</b>	<b>Rough Order of Magnitude Cost</b>
Destination Enterprises - Task Order 22 Modification 4	Provide safety specialists and flaggers.	7	\$900,000.00

## METRO BLUE LINE - TRACK AND SYSTEM REFURBISHMENT PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment 2 - Third Party 3 - Differing Site Conditions 4 - Regulatory Requirements 5 - Scope 6 - Value Engineering 7 - Safety

#### A. DESIGN BUILD CONTRACT - Contract C1168 Metro Blue Line Track Refurbishment

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts)	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
Mod 2 / CN-2	<p><u>Order Quantities for Summary of Work Spec Section 1.02E, 1.02F, 1.02G, 1.02 I.2 , 1.02 I.3., 1.02 I.4, and 1.02N -</u>                      This CN is for modifications for Metro to order specified quantities of the following items:                      1) Provide 20,140 tracks fasteners and install 20,008 track fasteners                      2) Construct 16,870 LF of fall prevention railings on all existing structures at Slauson, Rosecrans, Domingues, Del Amo, 710 FWY                      3) Complete 89,250 LF of Overhead Catenary System (OCS) refurbishments                      4) Perform all new station signage upgrades at Lump Sum price</p>	5	12/06/18	1/29/2019	\$18,251,899.00	\$18,251,899.00
Mod 3 / CN-11	<p><u>Add Angle Iron at Rail Rebooting</u>                      Add scope in the Contract Summary of Work Spec Section 01 11 00- 1.03 (Project Elements), sub section, A, Item 1, letter i.                      i. Using new clips and rubber insulating boot, install running rail in accordance with specification section 34 11 00. Contractor to install standard rail boot protection angle iron on both sides of the rail and flangeway at all grade crossings, except pedestrian crossings. See Section 01 12 19 for materials supplied by Metro. Contractor shall supply all other material necessary to complete work.</p>	5	1/24/2019	2/8/2019	\$706,042.00	\$680,000.00
Mod 4 / CN-5 (Previously CO 2)	<p><u>Running Rail Replacement</u>                      This Change Order authorizes funding to assist the Contractor for procurement of materials to meet the project schedule. Modify Specifications Section 01 11 00 Paragraph 1.03-A.1 .h as follows (only final sentence is new):                      "h. Inspect rail and determine if existing rail is to be reused or if new rail is to be installed. The contractor should assume that 50% of running rail within work area will need to be replaced. See Section 01 1219 for material supplied by Metro. Contractor shall supply all other material necessary to complete work. Replacement rail shall be head-hardened and comply with the requirements of Section 34 11 13.                      Contractor shall purchase remaining 50% of running rail within work area."</p>	5	1/28/2019	2/8/2019	\$3,123,793.00	\$2,600,000.00

**II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)**

**A. DESIGN BUILD CONTRACT - Contract C1168 Metro Blue Line Track Refurbishment**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
CN-9	<u>Pole Painting – City of Long Beach</u> The contractor shall paint the street light and traffic signal poles south of East Willow Street along the Blue Line alignment as detailed in the below “City of Long Beach Pole Count” table (count to be field verified by contractor) and in accordance with Technical Requirements Section 09 91 00 “Painting.” Contractor shall use approved primer, Vista Prime Zall, and paint (two (2) coats), Vista Protec Alkyd Emulsion 99 Gloss Finish in color RAL 7037.	5	\$600,000.00
CN-10	<u>Pole Painting – City of Long Beach</u> The contractor shall paint the street light and traffic signal poles south of East Willow Street along the Blue Line alignment as detailed in the below “City of Long Beach Pole Count” table (count to be field verified by contractor) and in accordance with Technical Requirements Section 09 91 00 “Painting.” Contractor shall use approved primer, Vista Prime Zall, and paint (two (2) coats), Vista Protec Alkyd Emulsion 99 Gloss Finish in color RAL 7037.	5	\$600,000.00

**B. PROFESSIONAL SERVICES CONTRACTS**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
SECOTRANS - Task Order 12	Design Support During Construction	5	\$1,500,000.00

**C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS**

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

## WILLOWBROOK/ROSA PARKS STATION IMPROVEMENT PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment 2 - Third Party 3 - Differing Site Conditions 4 - Regulatory Requirements 5 - Scope 6 - Value Engineering 7 - Safety

#### A. DESIGN BUILD CONTRACT - C1161 Willowbrook/Rosa Parks Improvements - Icon West

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts)	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

#### B. PROFESSIONAL SERVICES CONTRACTS

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Rough Order of Magnitude Cost
AE419800011791 Mod 10	Design Support During Construction (STANTEC RNL)	5	08/08/18	1/9/2019	\$1,720,114.00	\$1,715,914.00

### II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)

#### A. DESIGN BUILD CONTRACT - Contract C1161 - Icon West

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
CN 2.1	<p><u>Updated Design Drawings and Technical Specifications</u></p> <p>In conformance with the documents dated June 29, 2018, the Contractor shall proceed with the construction of a new Customer Service and Security Building, Mobility Hub, pedestrian promenade, outdoor plaza, Blue Line platform and mezzanine extension, and renovation of two existing Green Line elevators. The updated package includes revisions to various sections in the Drawing package and Technical Specifications, including structural, civil-site, architectural, signage, electrical, and plumbing.</p>	5	\$590,000.00

#### B. PROFESSIONAL SERVICES CONTRACTS

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

#### C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

## PATSAOURAS PLAZA BUSWAY STATION PROJECT

### I. APPROVED MODIFICATIONS/CHANGES GREATER THAN \$500K IN THIS REPORTING PERIOD (December 1, 2018 - February 28, 2019)

Change Types:

1 - Betterment 2 - Third Party 3 - Differing Site Conditions 4 - Regulatory Requirements 5 - Scope 6 - Value Engineering 7 - Safety

#### A. DESIGN BUILD CONTRACT - C0970 Patsaouras Plaza Busway Station - OHL

MOD/CHANGE #	DESCRIPTION (if the change is a unilateral, explain in <b>BOLD</b> fonts)	Change Type	Submission Date	Approval Date	Contractor's Proposed Amount	Approved Amount
	None					

### II. PENDING MODIFICATIONS/CHANGES GREATER THAN \$500K (December 1, 2018 - February 28, 2019)

#### A. DESIGN BUILD CONTRACT - C0970 Patsaouras Plaza Busway Station - OHL

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
Settlement – CN or Mod number not yet assigned	<u>Settlement of Claim for the Work Stoppage -</u> This settlement will result in a modifications to Contract C0970 to compensate OHL for the following items: 1) OHL's work stoppage due to environmental concerns 2) Escalation 3) Global Impacts and Inefficiencies 4) Claims filed before the work stoppage	5	\$5,400,000.00

#### B. PROFESSIONAL SERVICES CONTRACTS

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		

#### C. CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACTS

CHANGE NOTICE/ORDER #	DESCRIPTION	Change Type	Rough Order of Magnitude Cost
	None		