

Metro

*Los Angeles County Metropolitan Transportation Authority
One Gateway Plaza
3rd Floor Board Room*



Agenda - Final

Thursday, February 20, 2020

10:15 AM

**One Gateway Plaza, Los Angeles, CA 90012,
3rd Floor, Metro Board Room**

Construction Committee

*Janice Hahn, Chair
Robert Garcia, Vice Chair
Kathryn Barger
Jacquelyn Dupont-Walker
Sheila Kuehl
John Bulinski, non-voting member*

Phillip A. Washington, Chief Executive Officer

METROPOLITAN TRANSPORTATION AUTHORITY BOARD RULES

(ALSO APPLIES TO BOARD COMMITTEES)

PUBLIC INPUT

A member of the public may address the Board on agenda items, before or during the Board or Committee's consideration of the item for one (1) minute per item, or at the discretion of the Chair. A request to address the Board must be submitted electronically using the tablets available in the Board Room lobby. Individuals requesting to speak will be allowed to speak for a total of three (3) minutes per meeting on agenda items in one minute increments per item. For individuals requiring translation service, time allowed will be doubled. The Board shall reserve the right to limit redundant or repetitive comment.

The public may also address the Board on non agenda items within the subject matter jurisdiction of the Board during the public comment period, which will be held at the beginning and/or end of each meeting. Each person will be allowed to speak for one (1) minute during this Public Comment period or at the discretion of the Chair. Speakers will be called according to the order in which their requests are submitted. Elected officials, not their staff or deputies, may be called out of order and prior to the Board's consideration of the relevant item.

Notwithstanding the foregoing, and in accordance with the Brown Act, this agenda does not provide an opportunity for members of the public to address the Board on any Consent Calendar agenda item that has already been considered by a Committee, composed exclusively of members of the Board, at a public meeting wherein all interested members of the public were afforded the opportunity to address the Committee on the item, before or during the Committee's consideration of the item, and which has not been substantially changed since the Committee heard the item.

In accordance with State Law (Brown Act), all matters to be acted on by the MTA Board must be posted at least 72 hours prior to the Board meeting. In case of emergency, or when a subject matter arises subsequent to the posting of the agenda, upon making certain findings, the Board may act on an item that is not on the posted agenda.

CONDUCT IN THE BOARD ROOM - The following rules pertain to conduct at Metropolitan Transportation Authority meetings:

REMOVAL FROM THE BOARD ROOM The Chair shall order removed from the Board Room any person who commits the following acts with respect to any meeting of the MTA Board:

- a. Disorderly behavior toward the Board or any member of the staff thereof, tending to interrupt the due and orderly course of said meeting.
- b. A breach of the peace, boisterous conduct or violent disturbance, tending to interrupt the due and orderly course of said meeting.
- c. Disobedience of any lawful order of the Chair, which shall include an order to be seated or to refrain from addressing the Board; and
- d. Any other unlawful interference with the due and orderly course of said meeting.

INFORMATION RELATING TO AGENDAS AND ACTIONS OF THE BOARD

Agendas for the Regular MTA Board meetings are prepared by the Board Secretary and are available prior to the meeting in the MTA Records Management Department and on the Internet. Every meeting of the MTA Board of Directors is recorded and is available at www.metro.net or on CD's and as MP3's for a nominal charge.

DISCLOSURE OF CONTRIBUTIONS

The State Political Reform Act (Government Code Section 84308) requires that a party to a proceeding before an agency involving a license, permit, or other entitlement for use, including all contracts (other than competitively bid, labor, or personal employment contracts), shall disclose on the record of the proceeding any contributions in an amount of more than \$250 made within the preceding 12 months by the party, or his or her agent, to any officer of the agency, additionally PUC Code Sec. 130051.20 requires that no member accept a contribution of over ten dollars (\$10) in value or amount from a construction company, engineering firm, consultant, legal firm, or any company, vendor, or business entity that has contracted with the authority in the preceding four years. Persons required to make this disclosure shall do so by filling out a "Disclosure of Contribution" form which is available at the LACMTA Board and Committee Meetings. Failure to comply with this requirement may result in the assessment of civil or criminal penalties.

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LIMITED ENGLISH PROFICIENCY

A Spanish language interpreter is available at all Committee and Board Meetings. All other languages must be requested 72 hours in advance of the meeting by calling (213) 922-4600 or (323) 466-3876.



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HELPFUL PHONE NUMBERS

Copies of Agendas/Record of Board Action/Recordings of Meetings - (213) 922-4880 (Records Management Department)

General Information/Rules of the Board - (213) 922-4600

Internet Access to Agendas - www.metro.net

TDD line (800) 252-9040

NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA

CALL TO ORDER**ROLL CALL**

24. **SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT** [2020-0063](#)

RECOMMENDATION

RECEIVE oral report on the Major Project Status by the Chief Program Management Officer.

Attachments: [Attachment A - Program Management Major Project Status Report](#)

25. **SUBJECT: CALTRANS UPDATE** [2020-0128](#)

RECOMMENDATION

RECEIVE report by the Caltrans District Director on Delivery of Projects on I-5.

26. **SUBJECT: METRO CENTER STREET PROJECT (FORMERLY ESOC)** [2019-0677](#)

RECOMMENDATION

AUTHORIZE the Chief Executive Officer (CEO) to:

- A. Award a firm fixed price contract, Contract No. C52151C1169-2 to S.J. Amoroso Construction Co., Inc., the responsive and responsible Proposer determined to provide Metro with the best value for the design and construction of the Metro Center Street Project (Project), in the amount of \$129,365,128.00;
- B. Align the Life-of-Project Budget (LOP) of \$112.7 million to \$206 million including \$109.5 million of Prop 1B California Transit Security Grant Program funds awarded to the Project by the State;
- C. Execute Modification No. 9 to Contract No. AE451150019779 with HDR Engineering Inc. to provide Design Support During Construction in the amount of \$1,976,222 increasing the Total Contract Value from \$6,528,181 to \$8,504,403 and increase the Contract Modification Authority (CMA) for HDR Engineering Inc. in the amount of \$400,000; and,
- D. Execute all agreements, task orders and contract modifications necessary up to the LOP budget to complete the above actions.

Attachments: [Attachment A-1 - Procurement Summary, S.J. Amorosa Construction Co., Inc.](#)
 [Attachment A-2 - Procurement Summary, HDR Engineering, Inc.](#)
 [Attachment B - Funding/Expenditure Plan](#)
 [Attachment C - Contract/Modification/Change Order Log, HDR Engineering, Inc](#)
 [Attachment D-1 DEOD Summary, TBA Construction Firm](#)
 [Attachment D-2 DEOD Summary, HDR Engineering, Inc.](#)
 [Presentation](#)

31. SUBJECT: RAIL AND BUS OPERATIONS CENTERS (ROC/BOC)

[2019-0756](#)

RECOMMENDATION

CONSIDER:

- A. ESTABLISHING a preliminary Life of Project (LOP) budget of up \$24 million for the preliminary engineering design and technical and third-party support services for the Rail Operations Center and Bus Operations Center (ROC/BOC) Project;
- B. AUTHORIZING the Chief Executive Officer to award a Task Order (TO) under Contract No. AE47810E0128, to SECOTrans (Joint Venture of LTK Engineering Services, NBA Engineering Inc., Pacific Railway Enterprises Inc., and Ramos Consulting Services, Inc) for the preliminary engineering design of the Rail and Bus Operations Control Center (ROC\BOC) Project for a not to exceed amount of \$15,000,000 increasing the previous Board approved not to exceed amount from \$28,932,000 to a not exceed amount of \$43,932,000 for Contract No. AE47810E0128; and
- C. AUTHORIZING the Chief Executive Officer (CEO) to execute all agreements necessary to complete the project within the preliminary LOP budget.

Attachments: [Attachment A - Procurement Summary](#)
 [Attachment B - DEOD Summary](#)
 [Attachment C - Proposed Task Order Work List](#)
 [Attachment D: ROC/BOC Operations Project Team Staffing Plan](#)

SUBJECT: GENERAL PUBLIC COMMENT[2020-0119](#)

RECEIVE General Public Comment

Consideration of items not on the posted agenda, including: items to be presented and (if requested) referred to staff; items to be placed on the agenda for action at a future meeting of the Committee or Board; and/or items requiring immediate action because of an emergency situation or where the need to take immediate action came to the attention of the Committee subsequent to the posting of the agenda.

COMMENTS FROM THE PUBLIC ON ITEMS OF PUBLIC INTEREST WITHIN COMMITTEE'S
SUBJECT MATTER JURISDICTION

Adjournment



Board Report

File #: 2020-0063, **File Type:** Oral Report / Presentation

Agenda Number: 27.

CONSTRUCTION COMMITTEE FEBRUARY 20, 2020

SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT

ACTION: ORAL REPORT

RECOMMENDATION

RECEIVE oral report on the Major Project Status by the Chief Program Management Officer.

DISCUSSION

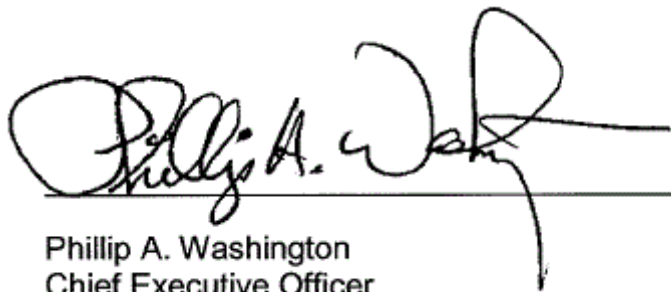
Update report covering the month of February 2020 by the Chief Program Management Officer.

ATTACHMENTS

Attachment A - Program Management Major Project Status Report

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., (323) 903-4112
- **Patsaouras Plaza Busway Station** - Timothy Lindholm, EO Project Engr., (213) 922-7297
- **Willowbrook/Rosa Park Station** - Timothy Lindholm, EO Project Engr., (213) 922-7297
- **I-210 Barrier Replacement** - Androush Danielians, EO Project Engr., (213) 922-7598
- **I-5 North** - Abdollah Ansari, Sr EO Construction & Engr., (213) 922-4781
- **I-5 South** - Abdollah Ansari, Sr EO Construction & Engr., (213) 922-4781
- **Presentation** - Yohana Jonathan, Princ. Prog. Mgmt. Analyst, (213) 418-3031



Phillip A. Washington
Chief Executive Officer

Program Management Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer





















February 2020

Construction Committee

Los Angeles County Metropolitan Transportation Authority



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 94% complete. Contractor needs to recover schedule. The forecast revenue service date is Summer/Fall 2020.
Regional Connector			Project is 62% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 56% complete and proceeding on schedule. Differing site conditions and third party requirements are impacting the project budget.
Westside Purple Line Extension-Section 2			Project is 25% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			Project is 6% complete and proceeding on schedule and within budget.
Patsaouras Plaza			Project is 84% complete. Archaeological and Native American monitoring completed for Austin Vault excavation. Concrete has been poured for the pedestrian walkway and overcrossing, and rebar has been completed for station and elevator platform. Pedestrian walkway overhead decking in progress.
Willowbrook/Rosa Parks Station			Blue Line Platform and Mezzanine opened for public service. Finishes and Vertical Circulation work ongoing. Customer Center is substantially complete. Mobility Hub + Public Plaza and promenade at 95% completion. Package B 100% bid package has been forwarded to Contractor for pricing with expected NTP in February.
I-210 Barrier Replacement			Design team looking to see if 8 minute headways are possible while single tracking occurs on Gold Line (for Projects 1 and 2). Expecting to submit Project 1 Project Report for approval by the end of January and submit Project 1 100% Design Package for approval by end of February 2020.
I-5 North: SR 118 to SR 134			Segment 1 and 2 are completed. Segment 3 (Empire Ave & Burbank) is 76% complete. Segment 4 (Magnolia to SR-134) is 94% complete.
I-5 South: Orange County Line to I-605			Segments 1 and 3 and the Carmenita Interchange are completed. Segment 2 (Valley View) is 55% complete. Segment 4 (Imperial) is 96% complete. Segment 5 (Florence) is 85% complete.

February 2020

Construction Committee

Los Angeles County Metropolitan Transportation Authority



On target



Possible problem



Major issue



Metro 2

CRENSHAW/LAX TRANSIT PROJECT



BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$2,058M	\$2,058M



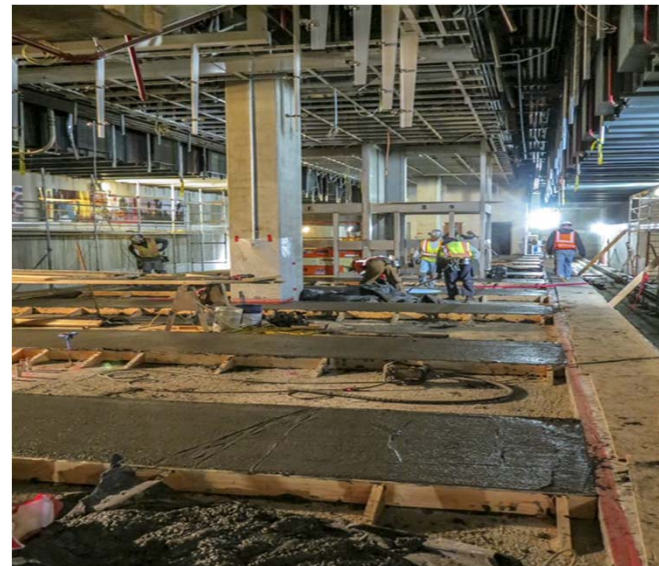
SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	Summer/Fall	Summer/Fall
OPERATION	2020	2020

- Overall Project Progress is 94% complete; contractor needs to recover schedule.
- Contractor continues remaining facility and systems installation and testing efforts. Integrated testing being performed up to Hindry Ave.
- Critical path is completion of the traction power substations, system equipment installation, conduit/wire installation, testing, and system integration testing.



EXPO/CRENSHAW STATION – Canopy over main station entrance



EXPO/CRENSHAW STATION – platform concrete architectural topping slab

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 3

REGIONAL CONNECTOR TRANSIT PROJECT



BUDGET

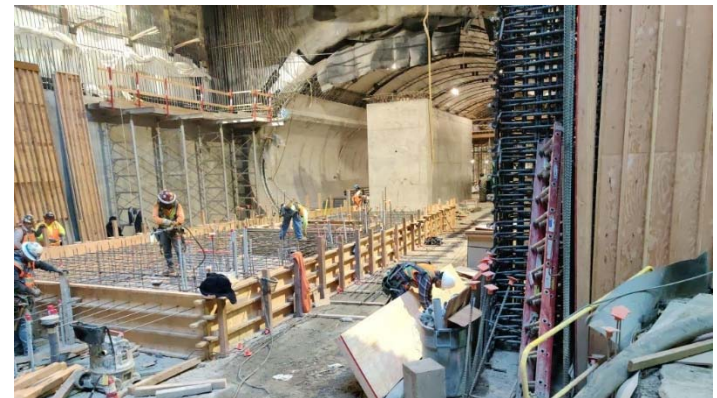
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$1,810M	\$1,810M



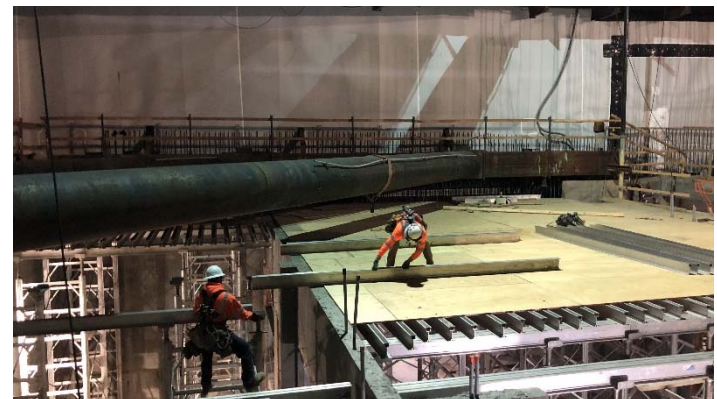
SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	Summer/Fall 2022	Summer/Fall 2022

- Overall Project Progress is 62% complete.
- Little Tokyo/Arts District Station, WYE and 1st Street:** Street Restoration has begun utilizing partial street closures.
- Historic Broadway Station:** Structural concrete continues within the Station, Entrance and Cross-over Cavern.
- Grand Av Arts/Bunker Hill Station:** Structural concrete walls and slabs continue to be erected at multiple levels throughout the station.
- Flower Street:** Continue installation of exterior and interior walls; roof placements underway.
- Track:** Floating Slab installation continues and rail delivery has commenced in preparation for assembly and placement.



Platform forms and rebar installation at Historic Broadway Station



Decking installation at Grand Av Arts/Bunker Hill Station

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 4

WESTSIDE PURPLE LINE EXTENSION – SECTION 1



BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,154M	\$3,154M

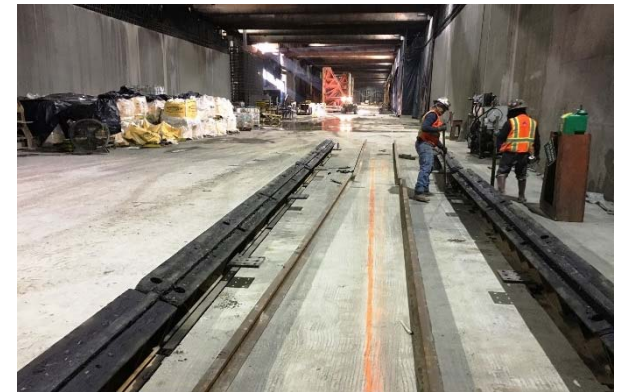
* Includes Board approved LOP budget plus finance costs.



SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	Fall	Fall
OPERATIONS	2024 (FFGA)	2023

- Overall Project Progress is 56% complete.
- Wilshire/Western Retrieval Shaft:** Supporting Reach 1 cross passage construction.
- Wilshire/La Brea Station:** Concrete placement for the exterior wall at the east hammerhead was completed on January 7, 2020; Infill slab preparation work continues. Assembly of roof forms moves forward; 2nd lift exterior wall concrete placement continuing.
- Wilshire/Fairfax Station:** On January 7, 2020, excavation at the entrance appendage commenced; Preparations for Tunnel Boring Machine (TBM) acceptance at the station continues with tunnel eye, TBM cradle and temporary rail installation.
- Wilshire/La Cienega Station:** Station invert concrete placement continues. Rebar installation for the 1st lift walls is scheduled to start in February 2020.
- Tunneling:** Reach 2 Tunneling as of January 9, 2020 - Purple TBM (Elsie): 2,278 feet mined (51% complete); Red TBM (Soyeon): 1,042 feet mined (24% complete)
- Cross Passages (CP):** Excavation at cross passage #10 commenced on January 6, 2020.
- Differing site conditions and third party requirements are impacting the project budget.



Installing Temporary Rail at Wilshire/Fairfax Station



Excavation at Cross Passage 10

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 5

WESTSIDE PURPLE LINE EXTENSION – SECTION 2



BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$2,530M	\$2,530M

* Includes Board approved LOP budget plus finance costs.



SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	Winter	Summer
OPERATION	2026 (FFGA)	2025

- Overall Project progress is 25% complete.
- Final design progress is 97% complete.
- **Century City Constellation**
 - A motion for prejudgment possession for the subsurface easement under Beverly Hills High School was granted in Los Angeles Superior Court on December 19, 2019.
 - Preparation for Tunnel Boring Machine (TBM) assembly started in January 2020.
 - A request for a seven-month extension of the full street closure of Constellation Blvd (in the vicinity of the TBM Launch Box) was approved by the Board of Public Works on December 16, 2019.
 - LADWP cable pulling and splicing is anticipated to be completed prior to the start of piling activities west of the TBM Launch Box.
- **Wilshire/Rodeo**
 - Remobilization for the piling of the station excavation began after the Holiday Moratorium on January 2, 2020.
 - Piling activities are forecasted to continue through July 2020.



Tunnel Eyes at the TBM Launch Box in Century City



Remobilization in Beverly Hills

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 6

WESTSIDE PURPLE LINE EXTENSION – SECTION 3



BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,611M	\$3,611M

* Includes Board approved LOP budget plus finance costs.



SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	TBD	2027
OPERATION		

- Overall Project progress is 6% complete
- Final design progress is 35% complete
- **C1151 Tunnel Contract**
 - So. California Edison ductbank construction for TBM power continues.
 - Site development of the Tail Track Exit Shaft Area ongoing.
 - Veterans Administration (VA) Property Access Agreement executed on January 8, 2020.
 - Surface and subsurface easement acquisitions continue.
- **C1152 Stations, Trackwork and Systems Contract**
 - Station easement acquisitions continue.
 - Geotechnical drilling at the VA site completed in January 2020.
 - Geotechnical drilling started in Wilshire Blvd. at Bonsall Ave.
- **Other Third Party Utility Relocation Work**
 - Joint trench activities for combining Verizon and Frontier telecommunications are ongoing.
 - Southern California Gas, Sempra Energy, and LADWP (Power) relocations are ongoing at Westwood/UCLA Station.



Tree Removal at VA Site



SCG Modified
Traffic Control Along Ohio Ave.

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 7

PATSAOURAS BUS PLAZA STATION



BUDGET

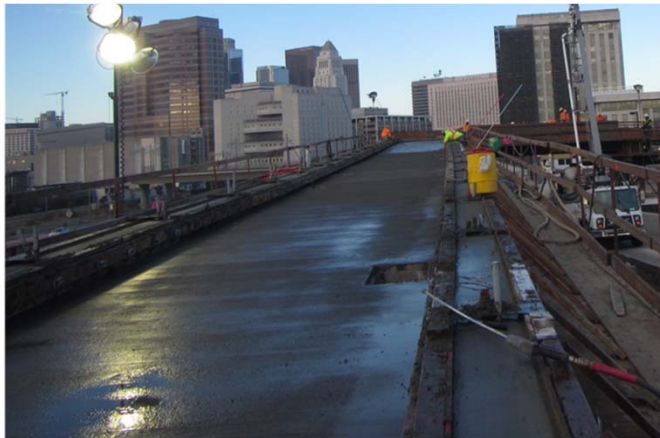
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$50.9M	\$50.9M



SCHEDULE

	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Spring 2020	Spring 2020

- Overall project progress at approximately 84% complete.
- Archaeological and Native American monitoring will continue with the completion of the drainage system at the median.
- Austin Vault excavation completed.
- Pedestrian walkway columns completed and decking initiated.
- Canopy columns set for bus platform concrete pour.



Pedestrian walkway and overcrossing poured

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 8

WILLOWBROOK/ROSA PARKS STATION

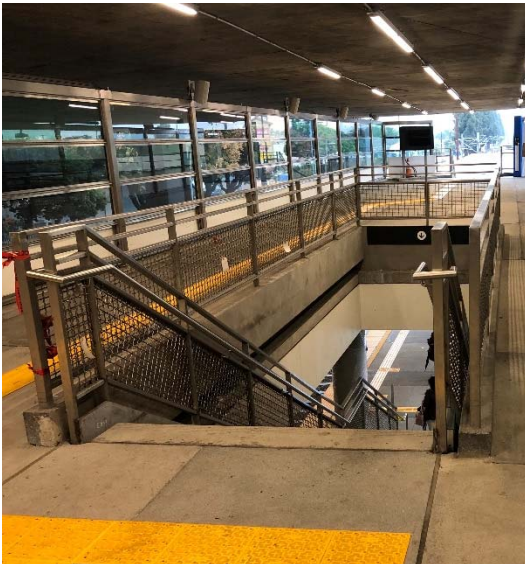
BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$109.3M	\$109.3M

SCHEDULE

	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Summer 2020	Summer 2020

- Package A: Customer Center substantially complete and fully furnished. Mobility Hub, Public Plaza and Promenade at 95% completion. Punch walks held in January.
- Package C: Blue Line platform and mezzanine in operation. Finish, Systems (Variable Message Sign, TAP) and Vertical Circulation work ongoing. Southern pedestrian crossing in coordination with Union Pacific Rail Road.
- Package B: Documents forwarded to Contractor for pricing. Notice To Proceed scheduled for February.



Blue Line Mezzanine open to the public



Rosa Parks Customer Center



Mobility Hub and Plaza near completion

February 2020



On target



Possible problem



Major issue



Metro 9

Construction Committee

Los Angeles County Metropolitan Transportation Authority

I-210 BARRIER REPLACEMENT PROJECT



BUDGET

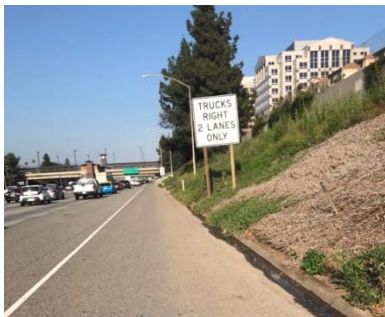
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$22.54M	\$22.54M
	Design	Design



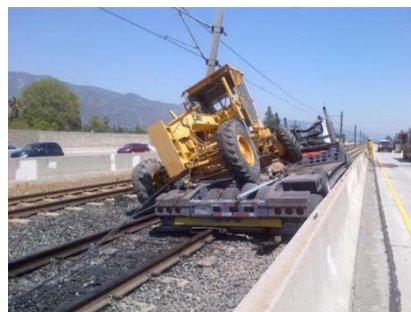
SCHEDULE

	<u>Current</u>	<u>Forecast</u>
Complete Design (Proj 1)	Feb 2020	Winter 2020
Complete Design (Proj 2)	Feb 2021	Summer 2022

- Project 1: Segment from Michillinda to Iconic Bridge – Caltrans has provided comments on the Project Report and the 95% submittal. Those comments are being addressed in the 100% Design Package. The 100% Design Package will be submitted by the end of February.
- Project 2: Segment from west end of the project to Michillinda – Development of alternative barrier system to avoid freeway lane closure for Project 2 is underway.
- Projects 1 & 2: Design Team investigating headways and operational impact while single tracking occurs during construction on Gold Line. May require additional track cross-overs to maintain 8-min headways.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

February 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 10

I-5 Construction Projects (By Caltrans)



February 2020

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 11

I-5 NORTH: SR 118 TO SR 134

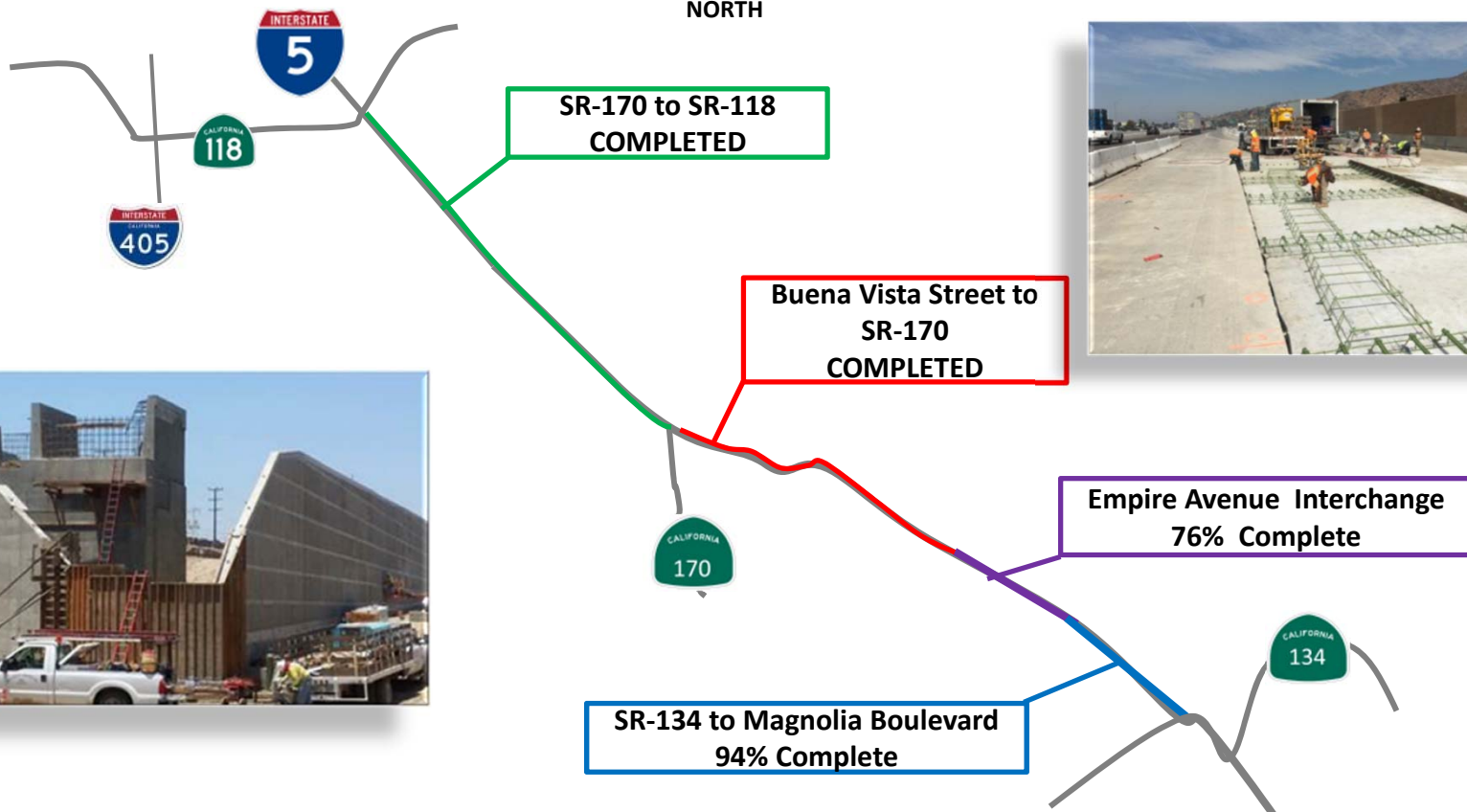


⚠ BUDGET

	Current	Forecast
TOTAL COST	\$880.9M	\$913.0M*

◆ SCHEDULE

ANTICIPATED PROJECT COMPLETION	Current Spring 2022	Forecast Summer 2022
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February 2020



On target



Possible problem



Major issue

* Risk Analysis, Nov 2019



Metro 12

Construction Committee

Los Angeles County Metropolitan Transportation Authority

I-5 SOUTH: ORANGE COUNTY LINE TO I-605



BUDGET

	Current	Forecast
TOTAL COST	\$1.888B	\$1.888B*

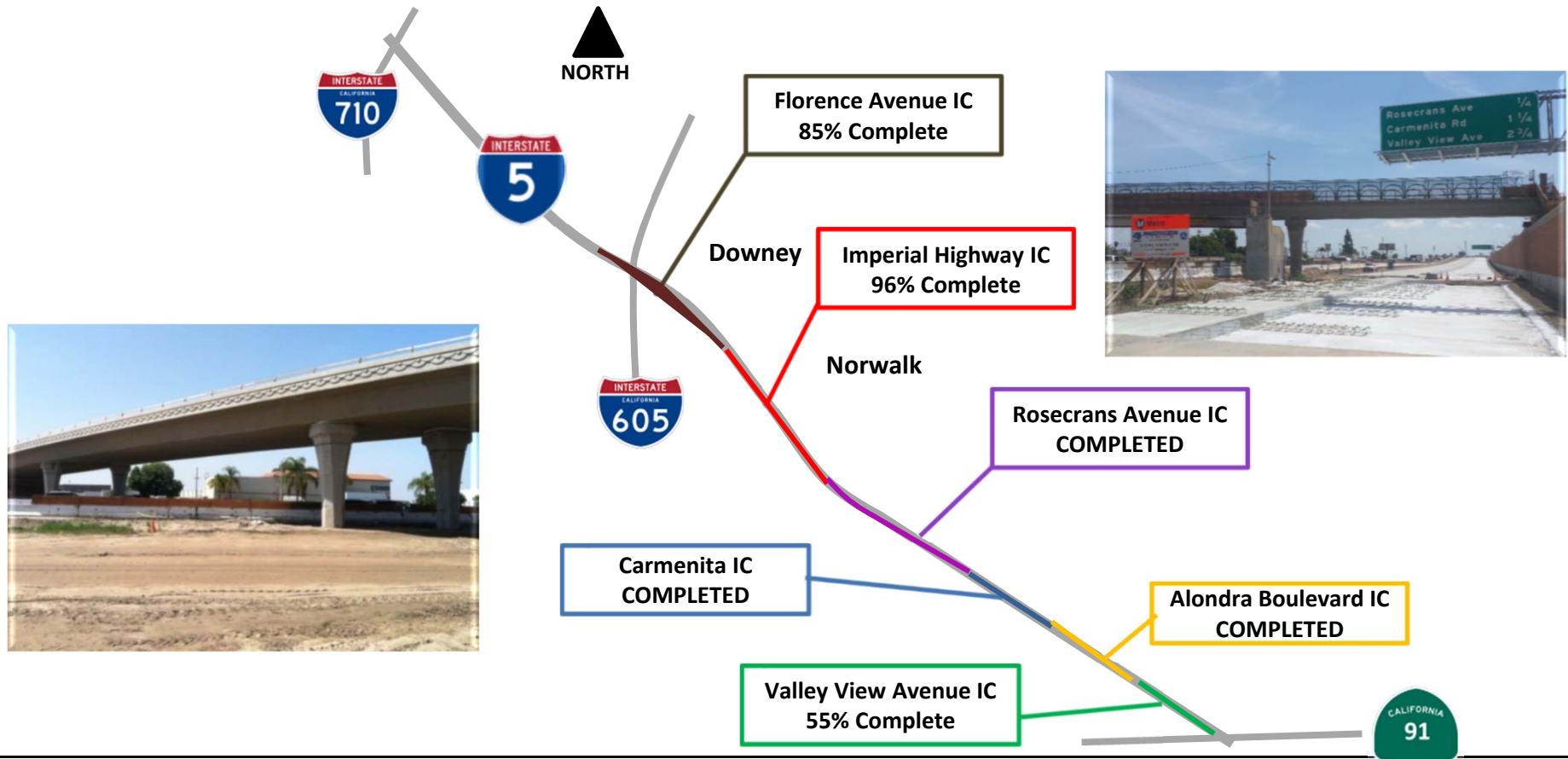


SCHEDULE

ANTICIPATED
PROJECT
COMPLETION

Current
Fall 2022

Forecast
Winter 2022



February 2020

Construction Committee

Los Angeles County Metropolitan Transportation Authority



On target



Possible problem



Major issue

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Risk Analysis, Nov 2019

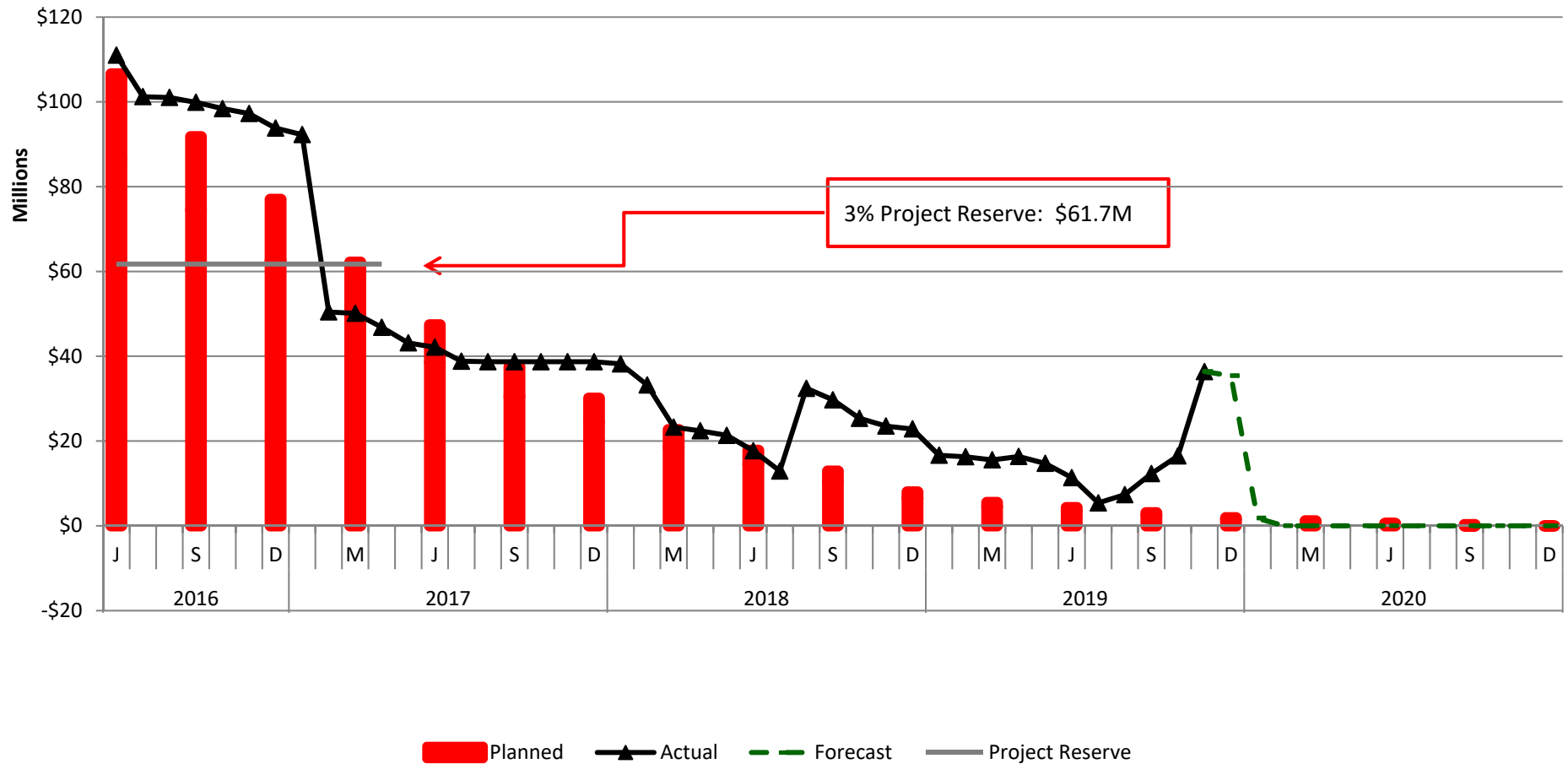


Metro 13

Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

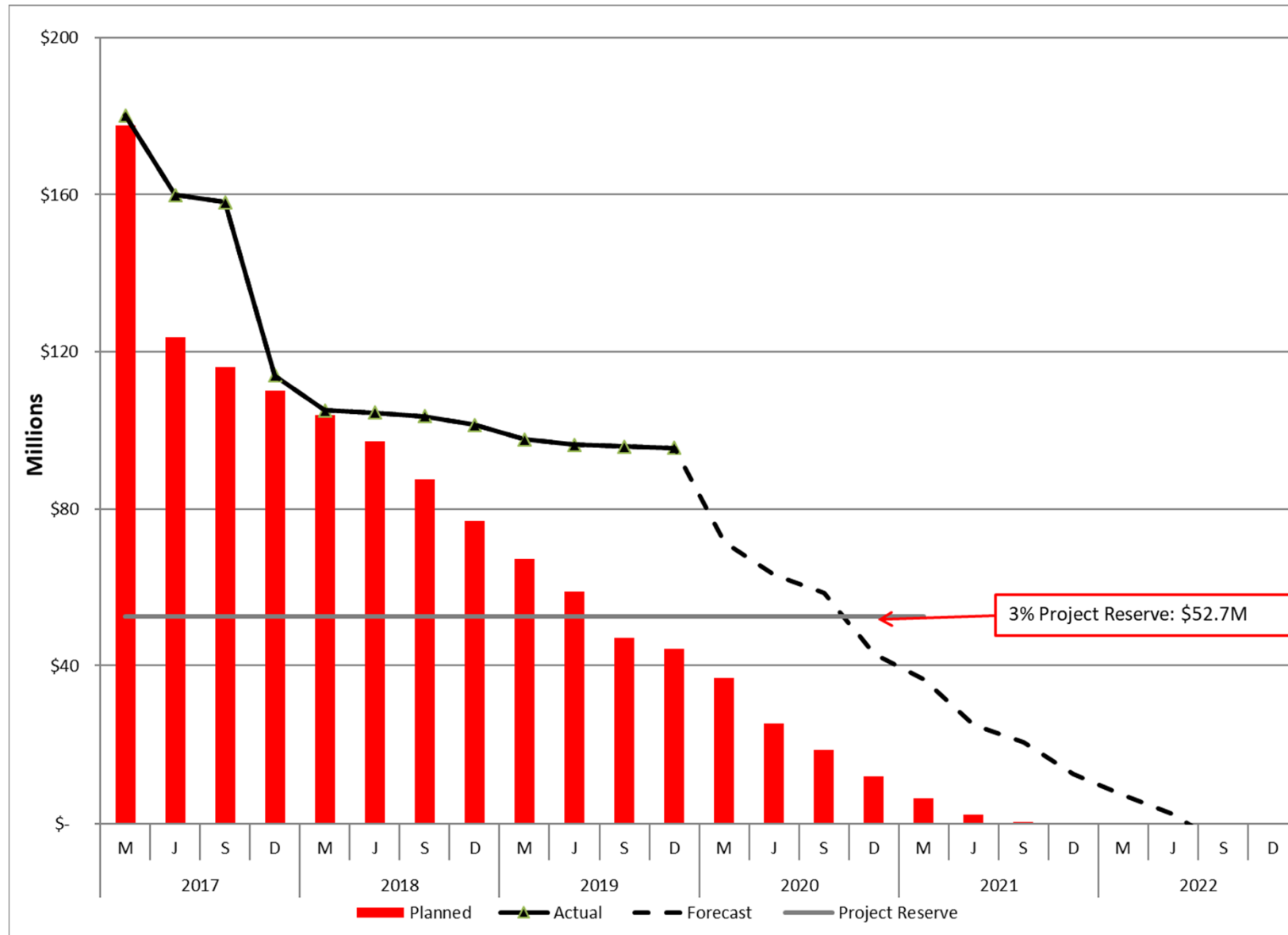
December 2019



Regional Connector

Project Cost Contingency Drawdown

December 2019

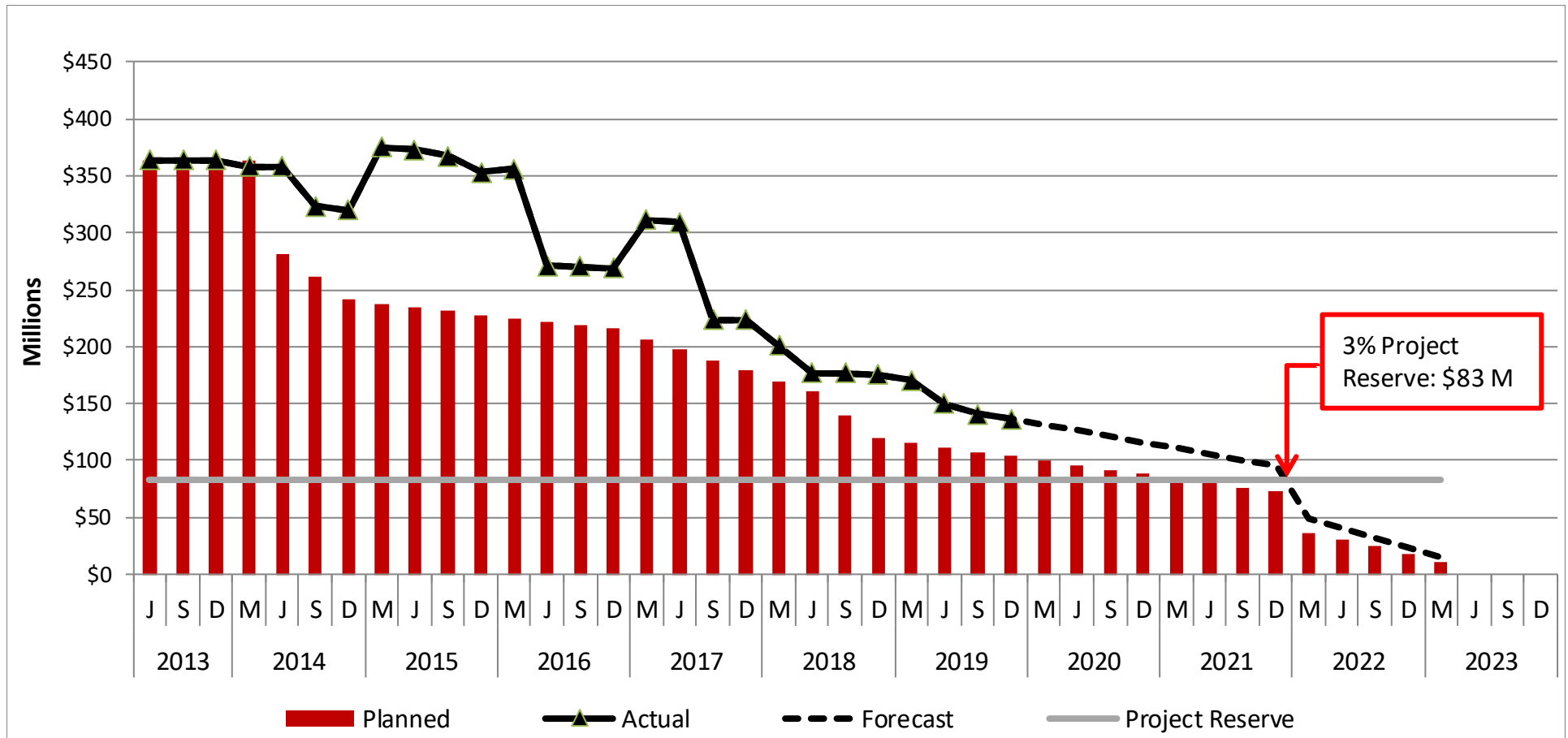


Data as of December 2019

Westside Purple Line Extension – Section 1

Project Cost Contingency Drawdown

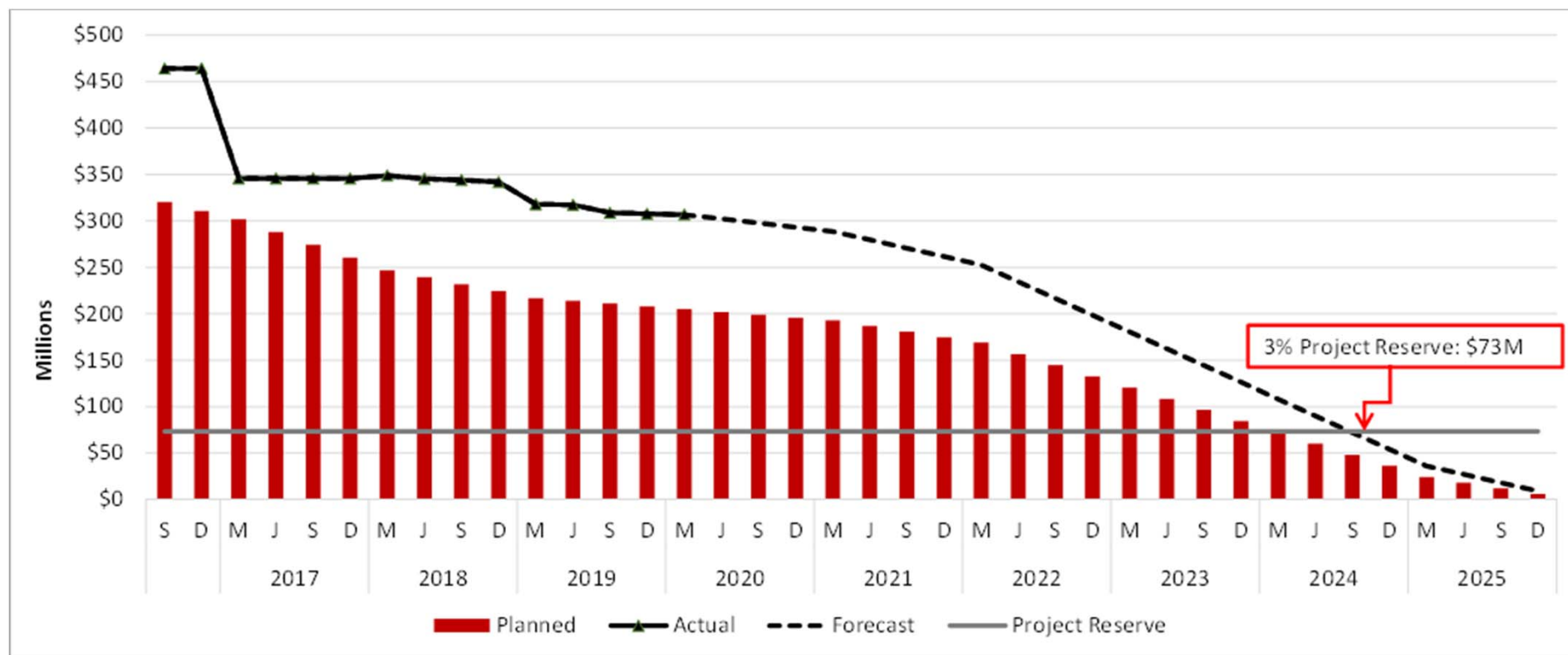
December 2019



Westside Purple Line Extension – Section 2

December 2019

Project Cost Contingency Drawdown





Board Report

File #: 2019-0677, **File Type:** Contract

Agenda Number:

REGULAR BOARD MEETING FEBRUARY 27, 2020

SUBJECT: METRO CENTER STREET PROJECT (FORMERLY ESOC)

ACTION: APPROVE RECOMMENDATIONS

RECOMMENDATION

AUTHORIZE the Chief Executive Officer (CEO) to:

- A. Award a firm fixed price contract, Contract No. C52151C1169-2 to S.J. Amoroso Construction Co., Inc., the responsive and responsible Proposer determined to provide Metro with the best value for the design and construction of the Metro Center Street Project (Project), in the amount of \$129,365,128.00;
- B. Align the Life-of-Project Budget (LOP) of \$112.7 million to \$206 million including \$109.5 million of Prop 1B California Transit Security Grant Program funds awarded to the Project by the State;
- C. Execute Modification No. 9 to Contract No. AE451150019779 with HDR Engineering Inc. to provide Design Support During Construction in the amount of \$1,976,222 increasing the Total Contract Value from \$6,528,181 to \$8,504,403 and increase the Contract Modification Authority (CMA) for HDR Engineering Inc. in the amount of \$400,000; and,
- D. Execute all agreements, task orders and contract modifications necessary up to the LOP budget to complete the above actions.

ISSUE

In March 2016, the Metro Board established the Life of Project budget (LOP) in the amount of \$112.7 million based on the grant funds awarded to the Project. Since then - four years later, the preliminary engineering design, environmental work and selection of the design/build contractor have been completed. This Board action will award the design/build contract to S.J. Amoroso Construction Co., Inc. deemed to provide the best value for the design and construction of the Project (See Attachment A -1, Procurement Summary) and align the LOP budget to \$206 million to the current market conditions and fund the design and construction of the Metro Center Street Project.

DISCUSSION

The Metro Center Street project comprises of the co-location of four operations centers: Emergency Operations Center (EOC), Security Operations Center (SOC), Rail Operations Center (ROC), and Bus Operations Center (BOC) to centralize communications and coordination, improve day-to-day operations, and enhance Metro's security, disaster and terrorism response capability. Metro's current Emergency Operations Center is operating at capacity, and needs to be expanded to accommodate Metro's new rail lines and upcoming special events including the World Cup, National Championships, and Olympics.

In addition, Metro does not have a Security Operations Center. The new SOC is needed to provide 24/7 security surveillance of Metro's transit system by security professionals with specialized training to improve overall rider safety on Metro's rail and bus lines. The Project will be constructed in two phases with the first phase consisting of the full build out of the EOC, SOC, at-grade parking, and infrastructure to accommodate the future ROC and BOC. The second phase will consist of the construction of the tenant improvements for the ROC and BOC on one entire floor of the Metro Center Street project building. The Project will achieve a LEED Gold certification with the capability to be in operations continuously for 72 hours in case of loss of water, power, and gas due to a natural disaster.

Life of Project Budget

With the base contract and provisional sum award to S.J. Amoroso in the amount of \$129,365,128.00, staff is requesting approval of the LOP in the amount of \$206 million to accurately realign and reflect the design and construction costs, infrastructure provisions to accommodate the ROC/BOC, third party costs, design support during construction, construction support services, and other agency support costs including a 20% construction contingency as shown in Attachment B - Funding/Expenditure Plan.

In March 2016, the Board established the LOP budget for the Project in the amount of \$112.7 million and awarded HDR Engineering Inc. a contract for preliminary engineering design. At the time, the \$112.7 million LOP included \$57.67 million for design and construction of the Project based conceptual planning phase. Since then, the preliminary engineering work and the evaluation of the design builders' proposals based on current market conditions have been completed.

The current market conditions in Southern California are very challenging. California markets are inundated with work especially with the passage of Senate Bill 1 which provides approximately \$5 billion in infrastructure improvements each year, combined with Measure R and Measure M programs and other private, state and local programs including LAX airport, which have flooded the construction market with several public works projects ongoing around the same time period. Therefore, fewer contractors are available to bid on jobs and bids have been trending higher. Additionally, a number of factors have driven up the prices of construction materials, beyond the average inflation rates in the four year period since 2016.

HDR Engineering Contract Modification

In March 2016, the Board awarded HDR Engineering, Inc. \$5,936,638 to prepare preliminary engineering design for the Metro Center Street Project. Due to the changes to the project Staff

recommended action also include \$1,976,222 million to HDR Engineering Inc. to provide design support during construction for the emergency and security operations centers.

Project Status

Metro has received California State Prop 1B grant in the amount of \$109.5 million since 2011 and the State has requested that Prop 1B grant funds be expended by 2022. Therefore, early environmental and demolition work began in August 2019 and will be completed in April 2020 in preparation for the design builder's work. The approval of the staff recommended actions will enable to Project to expend the Prop 1B funds by 2022.

DETERMINATION OF SAFETY IMPACT

The Project will be designed and constructed consistent with Metro's design and construction safety standards. This Board action will not impact established safety standards for Metro's design and construction projects.

FINANCIAL IMPACT

In FY 11, Metro received a Proposition 1B California Transit Security Grant Program (CTSGP) California Transit Assistance Fund (CTAF) grant to fund the design and construction of an Emergency Operations Center (EOC). The CTAF grant was subsequently reduced to \$109.5 million due to less available funds from bond sales. Funding Sources are shown on Table 2 below.

Funding Source	Amount (\$ millions)
Prop 1B California Transit Security Grant Program	\$109.5
Eligible State or/and Local Funds based on availability at time of expenditure	\$96.5
TOTAL	\$206.0

Staff is requesting to establish the new LOP budget of \$206 million for the Project, in cost center 2610 System Security and Law Enforcement, project number 212121 to accommodate the costs. Since this is a multi-year project, the Chief System Security and Law Enforcement Officer and Chief Program Management Officer, Program Management will be accountable for budgeting the costs in future years.

Impact to Budget

The Prop 1B California Transit Security Grant Program funds are specific for this project as designated in the Grant award to this project. Additional funding for this project may have to come from other federal, state or local eligible Bus and Rail Operating funds and SGR funds.

IMPLEMENTATION OF STRATEGIC PLAN GOALS

The Project supports Strategic Goal 2: Deliver outstanding trip experiences for all users of the transportation system. The Project will be designed and constructed to support future ROC and BOC operations within the building. The Project will enhance Metro's ability to plan and respond to special events. The Project supports Strategic Goal 4: Transform LA County through regional collaboration and national leadership. The Project is one of the few consolidated transit operation centers in the nation that will house emergency, security, rail, and bus operations within the same facility for efficiency of operations. Lastly, the Project supports Strategic Goal 5: Provide responsive, accountable, and trustworthy governance within the LA Metro organization. The Project is being designed and constructed in close coordination with the community and third party stakeholders as well as internal stakeholders within Metro to streamline Metro's systems and processes for efficient operations.

ALTERNATIVES CONSIDERED

The alternative would be to not approve the recommended actions to advance the design and construction of the Project. This is not recommended as Metro will need to return \$109.5 million to the State including over \$18 million that has already been expended if the Project does not move forward.

NEXT STEPS

Execution of the design-build contract is subject to the resolution of any timely and properly submitted protest. A Notice to Proceed (NTP) to the Design/Build Contractor after execution of the contract and meeting all other contract requirements for an NTP. The Project is estimated to be complete by December 2023. Upon Board approval, staff will also execute Modification No. 9 to Contract No. AE451150019779 with HDR Engineering, Inc.

ATTACHMENTS

Attachment A-1 - Procurement Summary, S.J. Amorosa Construction Co., Inc.

Attachment A-2 - Procurement Summary, HDR Engineering, Inc.

Attachment B - Funding/Expenditure Plan

Attachment C - Contract Modification/Change Order Log, HDR Engineering, Inc.

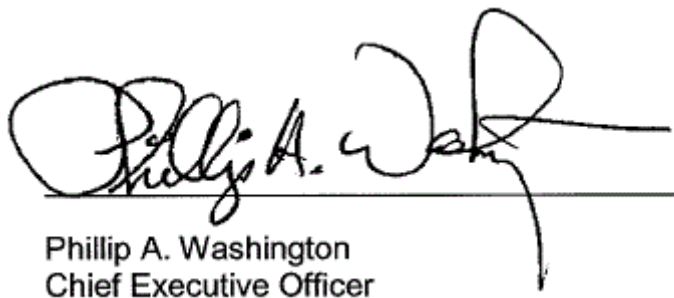
Attachment D-1 - DEOD Summary, TBA Construction Firm

Attachment D-2 - DEOD Summary, HDR Engineering, Inc.

Prepared by: Jeanet Owens, Senior Executive Officer, Regional Rail, (213) 418-3189
Carolina Coppolo, Executive Officer, Vendor/Contract Mgmt (213) 922-4471
Ivan Page, Executive Officer, Vendor/Contract Mgmt (213) 922-6383

Reviewed by: Richard Clarke, Chief Program Management Officer, (213) 922-7557
Debra Avila, Chief Vendor/Contract Management Officer, (213) 418-3051

Aston Greene, Chief Sys Sec & Law Enforcement Officer (Interim), (213) 922-3604



Phillip A. Washington
Chief Executive Officer

PROCUREMENT SUMMARY

**METRO CENTER STREET PROJECT- DESIGN/BUILD
CONTRACT NUMBER C52151C1169-2**

1.	Contract Number: C52151C1169-2	
2.	Recommended Vendor: S. J. AMOROSO CONSTRUCTION CO., INC.	
3.	Type of Procurement (check one): <input type="checkbox"/> IFB <input checked="" type="checkbox"/> RFP <input type="checkbox"/> RFP-A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order	
4.	Procurement Dates:	
	A. Issued: 10/19/18	
	B. Advertised/Publicized: 10/19/18	
	C. Pre-Proposal Conference: 10/30/18	
	D. Proposals Due: 9/5/19	
	E. Pre-Qualification Completed: 11/15/19	
	F. Conflict of Interest Form Submitted to Ethics: 04/20/19	
	G. Protest Period End Date: 1/20/20	
5.	Solicitations Picked up: 45	Bids/Proposals Received: 2
6.	Contract Administrator: Rafael Vasquez	Telephone Number: (213) 418-3036
7.	Project Manager: Jeanet Owens	Telephone Number: (213) 418-3189

A. Procurement Background

This Board Action is to approve the award of a contract for a design/build delivery, based on a best value solicitation issued in support of the Metro Center Street Project (formerly known as the Emergency Security Operations Center). The Contractor for Contract No. C52151C1169-2 will provide management, coordination, design, professional services, labor, equipment, materials and all other services necessary to perform the final design and construction of the Metro Center Street Project. Board approval of the contract award is subject to resolution of any properly submitted protest(s). The contract type is a firm fixed price.

A Request For Qualifications (RFQ)/Request For Proposals (RFP) was issued on October 19, 2018. A pre-proposal conference was held on October 30, 2018, in the Union Station Conference Room with representatives from approximately 49 firms in attendance.

The RFQ/RFP implemented a two-step negotiated best value procurement process in accordance with California Public Contract Code §22160-22169 and in accordance with Metro's Acquisition Policy. The first phase of the procurement was an RFQ asking for Statement of Qualifications (SOQ) to be submitted. Three responsive SOQs were received on November 19, 2018. A prequalification evaluation team evaluated the SOQs. All three firms met the RFQ requirements, were designated as qualified parties, and were invited to submit proposals in response to the second phase of the solicitation, the RFP. The three firms, in alphabetical order, were:

- Clark Construction Group-California, LP (Clark).
- S.J. Amoroso Construction Co., Inc (Amoroso).
- Webcor Builders (Webcor)

The prequalified firms submitted technical and commercial questions which were recorded and reviewed by Metro staff. Formal written answers to 65 questions were provided to the prequalified firms and other planholders.

Ten (10) amendments were issued during the solicitation and evaluation process:

- Amendment No. 1, issued on October 9, 2018, extended the SOQs due date to November 27, 2018; revised the Formal Proposals due date to March 28, 2019; and revised Section 2 Request for Qualifications and percentage of work performed by the Contractor;
- Amendment No. 2, issued on January 18, 2019, revised Formal Proposals due date to April 12, 2019 and revised the Performance Requirements;
- Amendment No. 3, issued on February 6, 2019, extended the Alternative Technical Concepts (ATCs) due date from 30 days to 40 days and revised the Design Requirements and Performance Requirements;
- Amendment No. 4, issued on March 4, 2019, revised Formal Proposals due date to April 26, 2019 and revised Performance Requirements and Schedule of Quantities (SOQs);
- Amendment No. 5, issued April 11, 2019, revised the SOQs and Performance Specifications;
- Amendment No. 6, issued on April 19, 2019, revised Submittal Requirements, SOQs, and Design Requirements;
- Amendment No. 7, issued on May 9, 2019, updated Bidder's Industrial Safety Record Pro-Form 063;
- Amendment No. 8, issued on July 15, 2019, revised Design Requirements Documents and added Early Demolition Work by another Contract;
- Amendment No. 9, issued on August 16, 2019, requested Best and Final Offers (BAFO) and established due date of September 3, 2019 (due date was extended to September 5, 2019), revised SBV/DVBE Forms, SOQS Forms and revised General Requirements, and Performance Specifications;
- Amendment No. 10, issued October 24, 2019, requested Final Revised Proposal and established due date of October 29, 2019.

Proposals were received on April 26, 2019 from the following firms:

1. Clark Construction Group-California LP (Clark).
2. S.J. Amoroso Construction Co., Inc. (Amoroso)

Only two of the three pre-qualified firms submitted proposals. Webcor Builders did not submit a proposal. Among the reasons cited were complexity and time consuming in

filling Metro forms, expensive insurance coverage requirements for subcontractors, and many unknown risks associated with construction.

Final Revised Proposals were received on October 29, 2019, from both Proposers:

1. Amoroso
2. Clark

B. Evaluation of Proposals

A Proposal Evaluation Team (PET) consisting of staff from Metro Project Management/Regional Rail, Project Management/Construction Management and Operations Liaison and Planning department conducted a comprehensive and robust evaluation of the proposals received, in accordance with the factors and sub-factors set forth in the RFP to assign a score and ranking.

The proposals were evaluated based on the evaluation criteria and weights:

- | | |
|----------------------------------------------------------|------------|
| • Experience and Qualifications of Firms on the Team | 5 percent |
| • Skills and Experience of Project Personnel | 10 percent |
| • Project Management Approach | 25 percent |
| • Project Understanding and Technical Approach | 40 percent |
| • Price | 20 percent |
| • A Prompt Payment to Subcontractors Initiative (Bonus)* | 5 points |

*The Proposers could opt for prompt payment initiative and earn bonus points for the prime Contractor to pay its first-tier subcontractors for work completed prior to submitting its monthly billing to Metro.

Each proposing team was invited to make an oral presentation to the PET for the purpose of clarifying their proposal and demonstrating their understanding of Metro's requirements. The presentation meeting format, the amount of time allowed, and general questions asked were standardized. Oral presentations were scheduled on June 12, 2019 and July 12, 2019.

Following a review of the initial proposals and oral presentations both proposals were determined to be within the competitive range. The PET held discussions with each Proposer between June 21, 2019, and July 16, 2019, to address potential deficiencies, understand concerns about risk, and review assumptions taken in relation to their price proposal. The discussions confirmed Proposers' understanding of the scope and appropriate approaches and plans to complete the scope of work. Based on discussions, Proposers were requested to submit Final Revised Proposals.

After receipt of the Final Revised Proposals, and multiple clarifications during the process, it was determined that the SBE/DVBE Forms submitted by Clark were non-responsive to the RFP requirements. Staff was unable to determine the level of Clark's Design and Construction commitments. A Proposer must meet or exceed the goal at

time of the proposal due date and a Proposer that does not meet the goal will be determined non-responsive and not be eligible for award.

Qualifications Summary

Proposers were qualified and technically capable of performing the design and construction of the Project. Amoroso's Proposal was rated higher for Skills and Experience of Project Personnel. Amoroso explained in detail, their intent and approach to the Project and the various elements of risk in their Proposal. Amoroso's Proposal demonstrated strengths in factors and sub-factors under Project Management and Technical Approach of Proposer's capabilities, skill and experience, management approach, risk management, staffing plan, safety and quality management and quality control.

Notwithstanding, the scoring of both proposals, Clark's final proposal was determined non-responsive. In accordance with the specified evaluation factors and sub-factors and the SBE/DVBE goal requirements of the RFP Amoroso offers the Best Value, and is advantageous to Metro.

EVALUATION CRITERIA WEIGHTING AND SCORING SUMMARY

Table 1- Score Summary by Evaluation Criteria

	Points Possible	Amoroso	Clark
Experience and Qualifications of Firms on the Team (5%)			
Proposer's Skill and Experience	5	4.17	4.40
SUBTOTAL	5	4.17	4.40
Skills and Experience of Project Personnel (10%)			
Project Manager	2	1.97	1.30
Deputy Project Manager	1	0.97	0.68
Quality Assurance and Control Manager	1	0.98	0.68
Principal Engineer	2	1.87	0.57
Lead Architect	1	0.93	0.97
Safety Manager	1	0.97	0.99
MEP Engineer(s)	1	0.97	0.98
Systems Engineer	1	0.97	0.98
SUBTOTAL	10	9.63	7.15
Project Management Approach (25%)			
Design Management Approach	5	4.17	4.80
Construction Management	10	8.23	9.60
Project Controls and Schedule	2.5	2.08	2.08
Risk Management Approach	2.5	2.33	2.50
Safety Record	2.5	2.29	2.50
Quality Assurance/Quality Control	2.5	2.33	1.75

SUBTOTAL	25	21.43	23.23
Project Understanding and Technical Approach (40%)			
General (Understanding of technical issues, ATCs, Design Approach, 30% Design Development)	15	13.40	14.30
Fixed Facilities (Architectural, Civil, Utilities, etc.,)	15	12.95	13.65
Systems (Communication, Systems Integration Testing, and Startup, System Safety, Security, and Assurance)	10	9.17	9.50
SUBTOTAL	40	35.52	37.45
TECHNICAL TOTAL	75.00	70.75	72.23
Price Proposal (20%)			
Price	17	15.04	17.00
Delay Compensation Rates	1	0.93	1.00
Life Cycle Costs	1	0.97	1.00
Exceeds SBE/DBE Goal	1	1.00	0.0
PRICE TOTAL	20	17.94	19.00
TECHNICAL & PRICE TOTAL	100	88.69	91.23
CP-5A Voluntary Subcontractor Payment Initiative (5 Point Bonus)	5	5	5
EVALUATION TOTAL	105	93.69	96.23

C. Cost/Price Analysis

The recommend award price is determined to be fair and reasonable based on adequate price competition and comparison to the independent cost estimate which was submitted concurrently with the proposals. The recommended award price to Amoroso, the only responsive proposer, is 8.7% higher than the ICE and only 6.7% higher than Clark's price.

PRICE SUMMARY	Amoroso Construction Base	Clark Construction Base	Independent² Cost Estimate
Total Evaluated Price ⁽¹⁾	\$175,026,485	\$157,733,995	\$144,143,417
Negotiated Price			
Award Price³	\$129,365,128	\$121,272,213	118,906,063

Note¹: The Total Price Proposal includes the Base Work, Provisional Sums, Delay Compensation, Life Cycle Costs and Options.

Note²: The Independent Cost Estimate (ICE) amounts are submitted before the due date and opened concurrently with the other Proposals.

Note³: The Award Price only includes Base Work and Provisional Sums.

D. Background on Recommended Contractor

Amoroso is the Design-Builder and General Contractor, and Owen Group is the Principal Engineer and Architect of Record. Amoroso was founded in 1939 in San Francisco, CA and was incorporated in 1959 as S.J. Amoroso Construction Co., Inc. In June of 2008,

Amoroso completed a 221,000 sq. ft. Emergency Operations Center that included a Medical Services Division, a Central Fire Station and parking structure for the City of Los Angeles in June of 2008.

In addition, Amoroso has completed two design build projects for Metro. The first was the Blue Line Station Refurbishments and Improvements project that involved the renovation of 21 stations along the Metro Blue Line corridor. The second project was the Bauchet Street Storage and Facilities Maintenance project that included a design-build of a two-story 62,398 sq. ft. pre-engineered metal building. Other design build projects that Amoroso has completed include LA City College Student Union, a multi-story 60,000 sq. ft. building, a LEED Silver certified building.

Amoroso has partnered with the Owen Group to provide architectural and engineering services. The Owen Group, Inc. is a multidisciplinary design and construction services firm. Founded in 1981 and has been ranked by ENR as a Top 500 Engineering firm and as a Top 100 Construction Management for Fee firm. Owen Group provided design/build services for Metro Division 3 Parking Structure Expansion project. Owen Group is providing full-service architecture and engineering energy efficient and sustainable designs, energy audits, Facility Condition Assessments (FCA), ADA accessibility compliance evaluations and design upgrades at the Union Station Gateway Building Engineering Management Services.

PROCUREMENT SUMMARY

METRO CENTER STREET PROJECT/AE451150019779

1.	Contract Number: AE451150019779		
2.	Contractor: HDR Engineering, Inc.		
3.	Mod. Work Description: Construction Support Services of the Metro Center Street Project (formerly Emergency Security Operations Center (ESOC))		
4.	Contract Work Description: Architectural and engineering (A&E) design services for the Center Street Project.		
5.	The following data is current as of: 12/18/19		
6.	Contract Completion Status		Financial Status
	Contract Awarded:	3/24/16	Contract Award Amount: \$5,936,638
	Notice to Proceed (NTP):	4/06/16	Total of Modifications Approved: \$591,543
	Original Complete Date:	4/05/17	Pending Modifications (including this action): \$1,976,222
	Current Est. Complete Date:	12/30/22	Current Contract Value (with this action): \$8,504,403
7.	Contract Administrator: Erica Rodriguez		Telephone Number: (213) 922-1064
8.	Project Manager: Kate Amissah		Telephone Number: (213) 418-3224

A. Procurement Background

This Board Action is to approve Contract Modification No. 9 issued for construction support services of the Metro Center Street Project (formerly ESOC). This Contract Modification also extends the period of performance through December 30, 2022.

This Contract Modification was processed in accordance with Metro's Acquisition Policy and the contract type is firm fixed price.

On March 24, 2016, the Board awarded a 36-month firm fixed price Contract No. AE451150019779 to HDR Engineering, Inc. in the amount of \$5,936,638 for architectural and engineering design services for the Center Street Project, formerly known as Emergency Security Operations Center (ESOC).

A total of eight modifications have been issued to date.

Refer to Attachment C – Contract Modification/Change Order Log.

B. Cost Analysis

The recommended price has been determined to be fair and reasonable based upon an independent cost estimate (ICE), technical analysis, cost analysis, fact finding, and negotiations. Some direct labor rates were re-negotiated to current market rates and fee remained unchanged.

Metro staff successfully negotiated a cost savings of \$9,778.

Proposal Amount	Metro ICE	Negotiated Amount
\$1,986,000	\$2,059,560	\$1,976,222

METRO CENTER STREET PROJECT
ATTACHMENT B-1: FUNDING/EXPENDITURE PLAN

CATEGORY: SMALL/LARGE CAPITAL
 TYPE: LIFE OF PROJECT BUDGET (LOP)
 VERSION: AMENDMENT 1
 TOTAL LOP BUDGET \$

206.00 Million

(Dollars in Millions)

			Fiscal Year							
PROJECT# 212121			Prior (Up to FY 19)	20	21	22	23	Total	% of Total	
Uses of Funds:										
FINAL DESIGN AND CONSTRUCTION										
Summary of Design/Build Cost Proposal										
	General Requirements	\$ -	\$ 3.00	\$ 17.80	\$ 2.00	\$ -	\$ 22.80	11%		
	Mobilization/Demobilization	\$ -	\$ 2.20	\$ 3.00	\$ -	\$ 0.10	\$ 5.30	3%		
	Final Design Services	\$ -	\$ 1.64	\$ 9.00	\$ -	\$ -	\$ 10.64	5%		
	Other General Items (Training, QA/QC, Safety, Warranty, LEED Gold, etc)	\$ -	\$ -	\$ -	\$ 2.02	\$ 0.50	\$ 2.52	1%		
	Site Conditions/Earthwork	\$ -	\$ 0.40	\$ 1.00	\$ -	\$ -	\$ 1.40	1%		
	Building Structure including Finishes	\$ -	\$ -	\$ 15.67	\$ 15.50	\$ 4.50	\$ 35.67	17%		
	Systems (HVAC, Electrical, Communication, Safety&Security)	\$ -	\$ -	\$ 10.00	\$ 34.00	\$ 0.24	\$ 44.24	21%		
	Exterior Improvements	\$ -	\$ -	\$ -	\$ 0.70	\$ 0.63	\$ 1.33	1%		
	Utilities	\$ -	\$ -	\$ 2.93	\$ 0.50	\$ -	\$ 3.43	2%		
	Provisional Sums	\$ -	\$ -	\$ 1.30	\$ 0.80	\$ 0.33	\$ 2.43	1%		
	Design/Build Contractor Subtotal	\$ -	\$ 7.24	\$ 60.70	\$ 55.52	\$ 6.30	\$ 129.76	63%		
	Stipend for Unsuccessful Responsive Proposer	\$ -	\$ 0.20	\$ -	\$ -	\$ -	\$ 0.20	0.10%		
	Early Demolition	\$ -	\$ 9.00	\$ -	\$ -	\$ -	\$ 9.00	4%		
	Street Vacation	\$ -	\$ -	\$ 0.75	\$ 0.75	\$ -	\$ 1.50	1%		
	Public Art	\$ -	\$ 0.01	\$ 0.20	\$ 0.13	\$ 0.07	\$ 0.41	0.20%		
	Design Support During Construction	\$ -	\$ 0.30	\$ 1.78	\$ 0.67	\$ 0.25	\$ 3.00	1%		
	Construction Support Services	\$ -	\$ 0.25	\$ 3.50	\$ 1.75	\$ 0.50	\$ 6.00	3%		
	Agency Costs (Metro/City of Los Angeles, other agencies)	\$ -	\$ 0.30	\$ 3.30	\$ 2.50	\$ 0.70	\$ 6.80	3%		
	Subtotal (Other Construction Costs)	\$ -	\$ 10.06	\$ 9.53	\$ 5.80	\$ 1.52	\$ 26.91	13%		
	Contingency (20%)	\$ -	\$ 3.46	\$ 14.05	\$ 12.26	\$ 1.56	\$ 31.33	15%		
SUBTOTAL PROJECT CONSTRUCTION COST				\$ 20.76	\$ 84.28	\$ 73.58	\$ 9.38	\$ 188.00	91%	
PRELIMINARY ENGINEERING DESIGN/PROPERTY ACQUISITION										
	Environmental/Preliminary Engineering Design		\$ 7.10	\$ -	\$ -	\$ -	\$ 7.10	3%		
	ROW/Land Existing Improvements		\$ 7.40	\$ -	\$ -	\$ -	\$ 7.40	4%		
	Agency Costs (PE Design)		\$ 3.50	\$ -	\$ -	\$ -	\$ 3.50	2%		
SUBTOTAL ENV./PE.ROW.OTHER COSTS			\$ 18.00	\$ -	\$ -	\$ -	\$ 18.00	9%		
TOTAL PROJECT COST			\$ 18.00	\$ 20.76	\$ 84.28	\$ 73.58	\$ 9.38	\$ 206.00	100%	
Sources of Funds: ¹										
	State	P1B: California Transit Security Grant Program Funds ²	\$ 18.00	\$ 20.76	\$ 70.74	\$ -	\$ -	\$ 109.50	53.2%	
	Local	Additional Metro Funding Needed	\$ -	\$ -	13.54	73.58	9.38	96.50	46.8%	
Total Life of Project Budget Funding:			18.00	20.76	84.28	73.58	9.38	206.00	100.0%	

1) Timing of funding sources is subject to change based on eligibility/availability at time of expenditure.

2) Metro would have to reimburse the State funds of \$ 109.5 million including \$18 million already expended if the funding is not approved, and if the Project does not move forward.

CONTRACT MODIFICATION/CHANGE ORDER LOG

METRO CENTER STREET PROJECT/AE451150019779

Mod. No.	Description	Status	Date	\$ Amount
1	BOC/ROC Risk Assessment & Future Implementation	Approved	01/26/17	\$370,558
2	Extension of Period of Performance (POP) through 10/31/17	Approved	07/31/17	\$0
3	Supplemental Scope of Work (SOW) and extension of POP through 2/24/21	Approved	10/12/17	\$220,985
4	Adding subcontractor DBH Consulting	Approved	11/21/17	\$0
5	Supplemental SOW for Div. 20 Portal Widening Project Coordination - No Cost	Approved	03/01/18	\$0
6	Adding subcontractors Amheart and Kimley-Horn	Approved	02/27/19	\$0
7	Funding reallocated from Task 6 to Task 5	Approved	05/23/19	\$0
8	Adding subcontractor Birdi & Associates	Approved	09/09/19	\$0
9	Construction Support Services and extension of POP through 12/30/22	Pending	Pending	\$1,976,222
	Modification Total:			\$2,567,765
	Original Contract:		3/24/16	\$5,936,638
	Total:			\$8,504,403

DEOD SUMMARY

**METRO CENTER STREET PROJECT DESIGN & BUILD
C52151C1169-2**

A. Small Business Participation - Design

The Diversity and Economic Opportunity Department (DEOD) established a 13% Small Business Enterprise (SBE) goal and a 3% Disabled Veteran Business Enterprise (DVBE) goal for Design. S.J. Amoroso Construction Co., Inc. (SJA) exceeded both goals by making a 13.70% SBE commitment and a 3.02% DVBE commitment for Design.

Small Business Goal	13% SBE 3% DVBE	Small Business Commitment	13.70% SBE 3.02% DVBE
----------------------------	----------------------------	----------------------------------	----------------------------------

	SBE Subcontractors	% Committed
1.	Verdical Group	1.29%
2.	A/E Tech	0.78%
3.	Safe Utility Exposure, Inc. (SUE Corp)	0.36%
4.	Faith Group, LLC	11.27%
	Total SBE Commitment	13.70%

	DVBE Subcontractors	% Committed
1.	Pierce/Cooley	3.02%
	Total DVBE Commitment	3.02%

B. Small Business Participation - Construction

The Diversity and Economic Opportunity Department (DEOD) established a 16% SBE goal and a 3% DVBE goal for Construction. SJA exceeded both goals by making a 16.19% commitment and a 3.17% DVBE.

Small Business Goal	16% SBE 3% DVBE	Small Business Commitment	16.19% SBE 3.17% DVBE
----------------------------	----------------------------	----------------------------------	----------------------------------

	SBE Subcontractors	% Committed
1.	Global Installation & Maintenance, Inc. DBA Global Electric	3.44%
2.	TBD – SBE Subcontractors	12.75%
	Total SBE Commitment	16.19%

	DVBE Subcontractors	% Committed
1.	CB Procurement	2.58%
2.	TBD – DVBE Subcontractors	0.59%
	Total Commitment	3.17%

C. Contracting Outreach and Mentoring Plan (COMP)

To be responsive, Proposers were required to submit a Contracting Outreach and Mentoring Plan (COMP) to mentor three (3) SBEs and one (1) DVBE firm for protégé development. SJA submitted a COMP and has committed to identify the required protégés after award.

D. Project Labor Agreement/Construction Careers Policy (PLA/CCP)

The PLA/CCP requires that contractors commit to meet the following targeted hiring goals for select construction contracts over 2.5 million dollars:

Federally Funded Projects		
Extremely / Economically Disadvantaged Worker Goal	Apprentice Worker Goal	Disadvantaged Worker Goal
40%	20%	10%

Non-Federally Funded Projects		
Community / Local Area Worker Goal	Apprentice Worker Goal	Disadvantaged Worker Goal
40%	20%	10%

E. Prevailing Wage Applicability

Prevailing Wage requirements are applicable to this project. DEOD will monitor contractors' compliance with the State of California Department of Industrial Relations (DIR), California Labor Code, and, if federally funded, the US Department of Labor (DOL) Davis Bacon and Related Acts (DBRA).

F. Living Wage Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy (LW/SCWRP) is not applicable to this contract.

DEOD SUMMARY

**METRO CENTER STREET PROJECT - A&E DESIGN SUPPORT
AE451150019779**

A. Small Business Participation

HDR Engineering, Inc., (HDR) made a 30.25% SBE commitment and a 3.04% DVBE commitment. The project is 80% complete. HDR is exceeding its SBE commitment with an SBE participation of 38.01%. HDR's current DVBE participation is 2.97% representing a shortfall of .07%. HDR explained that one of its added DVBE subconsultants, Amheart Solutions, is scoped to provide extensive support during Task 6, which is projected to eliminate the DVBE shortfall. HDR anticipates meeting or exceeding its SBE and DVBE commitments by the completion of contract.

Small Business Commitment	30.25% SBE	Small Business Participation	38.01% SBE
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	SBE Subcontractors	% Commitment	Current Participation¹
1.	Intueor Consulting	1.78%	0.78%
2.	Jacobus & Yuang	2.69%	4.15%
3.	MBI Media	1.94%	2.30%
4.	Pacific Coast Locaters	0.20%	0.13%
5.	Premier Management Corporation	1.29%	0.11%
6.	Quinn Williams	1.01%	3.57%
7.	SAA Associates	0.34%	0.39%
8.	S&K Engineers	10.10%	9.62%
9.	Spectrum Video	7.33%	7.04%
10.	W2 Design	3.57%	4.38%
11.	Birdi, Inc.	Added	0.00%
12.	Claris Strategy	Added	4.62%
13.	DBH Consulting Group	Added	0.92%
	Total SBE Commitment	30.25%	38.01%

¹Current Participation = Total Actual amount Paid-to-Date to SBE firms ÷ Total Actual Amount Paid-to-date to Prime.

Small Business Commitment	3.04% DVBE	Small Business Participation	2.97% DVBE
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	DVBE Subcontractors	% Commitment	Current Participation¹
1.	Calvada Surveying	0.42%	0.36%
2.	Schwab Engineering	2.62%	2.49%
3.	Amheart Solutions	Added	0.12%
	Total DVBE Commitment	3.04%	2.97%

¹Current Participation = Total Actual amount Paid-to-Date to DVBE firms ÷ Total Actual Amount Paid-to-date to Prime.

B. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this contract

C. Prevailing Wage Applicability

Prevailing Wage requirements are applicable to this project. DEOD will monitor contractors' compliance with the State of California Department of Industrial Relations (DIR), California Labor Code, and, if federally funded, the U S Department of Labor (DOL) Davis Bacon and Related Acts (DBRA). Trades that may be covered include: surveying, potholing, field, soils and materials testing, building construction inspection and other support trades.

D. Living Wage

The Living Wage and Service Contract Worker Retention Policy is not applicable to this contract.

METRO CENTER STREET PROJECT

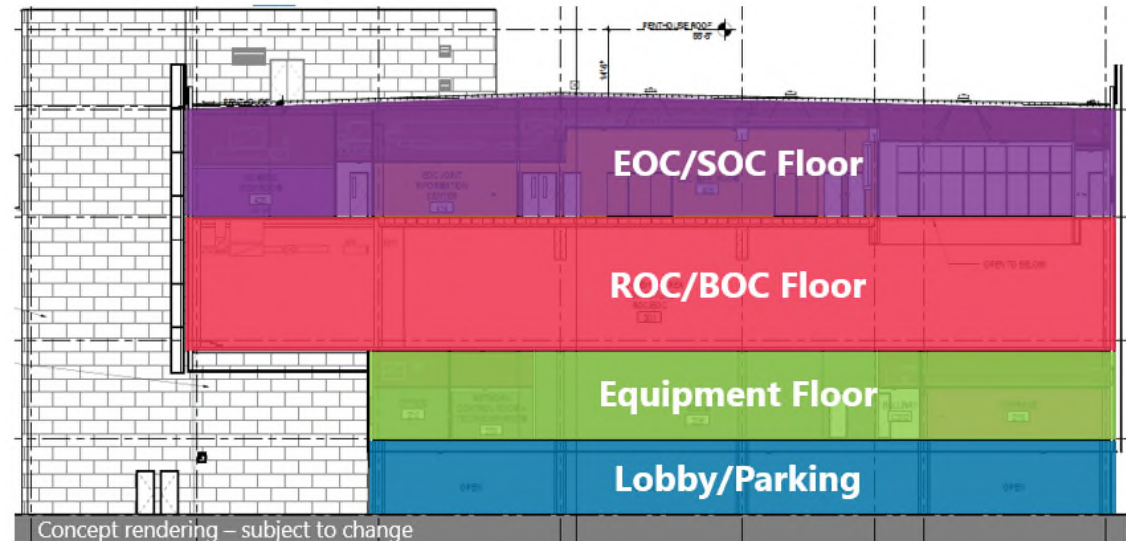


Metro Center Street Project Overview

1 In FY 11, Metro received a \$112.7 million Proposition 1B California Transit Security Grant Program (CTSGP) California Transit Assistance Fund (CTAF) grant to fund the design and construction of an Emergency Operations Center (EOC) and a Security Operations Center (SOC).

2 The Metro Center Street Project will consolidate and co-locate four primary functions:

- Phase 1** {
- a. Emergency Operations Center (EOC)
 - b. Security Operations Center (SOC)
- Phase 2** {
- c. Rail Operations Center (ROC)
 - d. Bus Operations Center (BOC)



3 The existing EOC/ROC are at capacity. New operation theaters are needed to support current operations, and to accommodate Metro's planned and future transit system up to 2070.

4 The facility will have the ability to operate for 72 hours of continuous operations during a catastrophe event with the loss of water, power, gas, and sewer.

Emergency and Security Operations Overview



- 1** There is no Security Operations Center (SOC) today to support the agency's current and disparate security systems and functions.
 - a. Limited Interoperable communications for Security to respond to various incidents in a coordinated fashion consistent with the National Incident Management System (NIMS)
 - b. Emergency calls such as 911 on the bus and rail lines at local Law Enforcement Agencies. Metro Security only finds out if local law enforcement informs them or when notified by ROC & BOC
- 2** To meet current conditions facing Metro's expansion, an EOC/SOC will provide total enterprise system security and situational awareness to be proactive in enhancing the customer experience for all Metro's patrons.
 - a. Enhanced Prevention, Protection, Mitigation Response & Recovery
 - b. Improved Surveillance from a common operating picture
 - c. Ability to Detect, Deter, Delay & Deny significant security threats
 - d. Provide for increase agency-wide resiliency with professional response & recovery systems
 - e. Support Security Business Intelligence Cycle & functions to optimize the customer experience daily

Metro Center Street Project Recommendations (Item No. 2019-0677)

- A** Award a firm fixed price contract, Contract No. C52151C1169-2 to S.J. Amoroso Construction Co., Inc., the responsive and responsible Proposer determined to provide Metro with the best value for the design and construction of the Metro Center Street Project (Project), in the amount of \$129,365,128.00;
- B** Align the Life-of-Project Budget (LOP) of \$112.7 million to \$206 million including \$109.5 million of Prop 1B California Transit Security Grant Program funds awarded to the Project by the State;
- C** Execute Modification No. 9 to Contract No. AE451150019779 with HDR Engineering Inc. to provide Design Support During Construction in the amount of \$1,976,222 increasing the Total Contract Value from \$6,528,181 to \$8,504,403 and increase the Contract Modification Authority (CMA) for HDR Engineering Inc. in the amount of \$400,000; and,
- D** Execute all agreements, task orders and contract modifications necessary up to the LOP budget to complete the above actions.

Metro Center Street Project Funding

Funding Source	Amount
Prop 1B California Transit Security Grant Program	\$ 109.50 M
Eligible State or/and Local Funds based on availability at time of expenditure	\$ 96.50 M
TOTAL	\$ 206.0 M

1. The \$112.7 million CTAF grant awarded by the State in FY 11 was subsequently reduced to \$109.5 million due to less available funds from bond sales.
2. LOP budget increase is due to:
 - a. High design and construction bids due to current competitive market conditions with several ongoing public works projects ongoing around the same period.
 - b. Previous LOP established in 2016 based on conceptual design with limited information.
 - c. Provisions to accommodate the future ROC/BOC.
 - d. Designed for redundancy to support Metro operations for up to 72 hours during a catastrophe event with the loss of water, power, gas, and sewer.
 - e. Updates to third party and support services costs.

Next Steps

METRO CENTER STREET PROJECT

No.	Description	Date
1	Early Demolition and Environmental Abatement	August 2019 – April 2020
2	Board Approval of LOP budget, Award of Design/Build Contract, and HDR Contract Modification	February 2020
3	Board Approval of Award of Construction Support Services (CSS cost is included in LOP budget)	April 2020
4	Design/Build Contractor Initiates Design	Spring 2020
5	Construction Begins	Summer 2020
6	Anticipated Construction Complete	2023



Metro

Los Angeles County
Metropolitan Transportation
Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA

Board Report

File #: 2019-0756, **File Type:** Project

Agenda Number: 31.

PROCUREMENT SUMMARY

SYSTEMS ENGINEERING SUPPORT SERVICES / CONTRACT NO. AE47810E0128

1.	Contract Number: AE47810E0128			
2.	Contractor: SECOTrans (Joint Venture of LTK Engineering Services, NBA Engineering Inc., Pacific Railway Enterprises Inc., and Ramos Consulting Services, Inc.).			
3.	Mod. Work Description: Increase not-to-exceed amount in the amount of \$15,000,000, from \$28,932,000 to \$43,932,000 and issue Task Order No. E0128-016 Rail Operations Center (ROC) / Bus Operations Center (BOC) Architectural and Engineering Systems Design Services.			
4.	Work Description: Systems Engineering Support Services			
5.	The following data is current as of: December 17, 2019			
6.	Contract Completion Status:		Financial Status:	
	Award Date:	April 26 2018	Board Approved NTE Amount:	\$28,932,000
	Notice to Proceed (NTP):	June 14, 2018	Total Contract Modification Authority (CMA):	N/A
	Original Completion Date:	June 14, 2025	Value of Task Orders and Mods. Issued to Date (including this action):	\$24,762,374
	Current Est. Complete Date:	June 14, 2025	Remaining Board Approved Amount:	\$4,169,626
7.	Contract Administrator: Diana Sogomonyan		Telephone Number: (213) 922-7243	
8.	Project Manager: Ron Tien		Telephone Number: (213) 418-3445	

A. Contract Action Summary

On April 26, 2018, the Board of Directors approved award of Contract No. AE47810E0128 Systems Engineering and Support Services, in the amount not-to-exceed \$28,932,000, to supplement Metro's Engineering Department resources in providing engineering services for projects in varying stages of conceptual design, preliminary engineering, final design, bidding for construction, and design support during construction (DSDC), including the following: program management, quality, and computer aided design and drafting (CADD); design services concerning train control, communications systems, traction power, and overhead catenary systems (OCS); operational runtime simulation and modeling, corrosion control, system integration, facilities and system-wide electrical, facilities mechanical, facilities plumbing, and facilities fire protection. The Period of Performance for the Contract is seven (7) years from NTP and includes three (3) one-year options to be exercised at Metro's sole discretion.

Forty-nine (49) Task Orders have been issued to SECOTrans to date. Four (4) Contract Modifications have been issued for zero dollars.

This Board action is to approve an increase to the total authorized funding for Contract No. AE47810E0128, to negotiate and execute Task Order No. E0128-TO-016 Rail Operations Center (ROC) / Bus Operations Center (BOC) Architectural and Engineering Systems Design Services in an amount not-to-exceed \$15,000,000.

Task Order No. E0128-TO-016 Scope of Work consists of developing the space and systems design for the ROC and BOC into the Emergency Security Operations Center (ESOC). The Consultant will provide state-of-the-art design, allowing for the continued application and utilization of technological advances to streamline operations while supplying a safe, effective, efficient, and scalable work environment for Metro personnel. The Consultant will provide space and systems schematic design recommendations on the best ways that the ROC and BOC can be integrated within The Center Street Project. Furthermore, the Consultant will design conversion of the existing ROC to a redundant secondary backup ROC and BOC, to ensure the seamless transition of communication, command and control.

The Task Order to the Contract will be processed in accordance with Metro's Acquisition Policy. Contract No. AE47810E0128 is a cost plus fixed fee (CPFF) Contract.

B. Cost/Price Analysis

The final negotiated amount will comply with all requirements of Metro's Acquisition Policy and Procedures. A cost analysis will be performed, taking into consideration the completed Independent Cost Estimate and technical audit, utilizing labor and indirect cost rates already establish in the contract.

COST SCHEDULE PROPOSAL	INDEPENDENT COST ESTIMATE	NEGOTIATED AMOUNT
To be submitted	\$15,779,279	TBD

DEOD SUMMARY

SYSTEMS ENGINEERING SUPPORT SERVICES / CONTRACT NO. AE47810E0128

A. Small Business Participation

SECOTrans, a Joint Venture of LTK Engineering Services and three (3) DBE Joint Venture (JV) partners, NBA Engineering, Inc., Pacific Railway Enterprises, Inc., and Ramos Consulting Services, Inc. made a 15% Disadvantaged Business Enterprise (DBE) commitment for this on-call Contract. The project is 34% complete and SECOTrans is exceeding their DBE commitment with 26.76% participation, based on the aggregate of all Task Orders awarded to date.

The DBE commitment for the proposed Task Order No. E0128-TO-016 - Rail Operations Center (ROC) / Bus Operations Center (BOC) Architectural and Engineering Systems Design Services will be determined upon completion of negotiations.

SMALL BUSINESS COMMITMENT		15% DBE	SMALL BUSINESS PARTICIPATION		26.76% DBE
	DBE Contractors	Scope of Work	NAICS Codes	Ethnicity	Current Participation
1.	NBA Engineering, Inc. (JV Partner / DBE Prime)	MEP Engineering	541330 - Engineering Services	Caucasian Female	4.92%
2.	Pacific Consulting Service, Inc. (JV Partner / DBE Prime)	Railroad Signal and Communications System Design and Engineering	541330 - Engineering Services 541340 - Drafting Service 541512 - Computer System Design Services	Caucasian Female	.05%
3.	Ramos Consulting Services (JV Partner / DBE Prime)	Systems Engineering and Support Services	541330 - Engineering Services 541611 - Administrative Management and General Management Consulting Services	Hispanic American	8.38%
4.	Arakelyan Drafting Services, Inc.	Computer Aided Drafting and Design	541340 - Drafting Services	Other Female	TBD
5.	Destination Enterprises, Inc.	Systems Construction Management, Project	236220 - Commercial and Institutional Building Construction	Caucasian Female	8.14%

		Management, Inspection Estimating and Scheduling	237990 - Other Heavy and Civil Engineering Construction 541990 - All Other Professional, Scientific, and Technical Services 541611 - Administrative Management and General Management Consulting Services		
6.	Enabled Enterprises LLC	IT Infrastructure Systems and Network Architecture, Design, Engineering, and Project Management, Application Development	541511 - Custom Computer Programming Services 541512 - Computer Systems Design Services 541519 - Other Computer Related Services	Asian Pacific American	TBD
7.	Fariba Nation Consulting	Systems Engineering Design	541614 - Process, Physical Distribution, and Logistics Consulting Services 541611 - Administrative Management and General Management Consulting Services	Other Female	1.69%
8.	Intueor Consulting, Inc.	Systems Engineering CM/DSDC	541614 - Process, Physical Distribution, and Logistics Consulting Services 541611 - Administrative Management and General Management Consulting Services	Asian Sub-continent American	0.84%
9.	PK Electrical Inc.	Electrical Engineering	541330 - Engineering Services	Caucasian Female	TBD
10.	ROMAR7 LLC	Computer Aided Drafting and Design	541340 - Drafting Services 541512 - Computer System Design Services 561110 - Office Admin Services	Asian Pacific Female	TBD

11.	Triunity Engineering and Management, Inc.	Communications Design, System Integration and Analysis	541330 - Engineering Services	African American	2.74%
	Total Participation				26.76%

¹Current Participation = Total Actual amount Paid-to-Date to DBE firms ÷ Total Actual Amount Paid-to-date to Prime.

B. Living Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy (LW/SCWRP) is not applicable on this Contract.

C. Prevailing Wage Applicability

Prevailing wage is not applicable to this Contract.

D. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract.

ATTACHMENT C**PROPOSED TASK ORDER WORK****SYSTEMS ENGINEERING SUPPORT SERVICES / CONTRACT NO. AE47810E0128**

Mod./Task Order (TO) No.	Description	Status (approved or pending)	Date	Task Order Issued including Mods	Pending TO Mods	Pending TO
N/A	Initial Authorized Funding	Approved	4/26/18	\$28,932,000	---	---
E0128-TO-01	Systems Engineering Support for Crenshaw Project	Approved	7/9/18	\$4,963,761	(\$31,227)	
E0128-TO-02	Program-wide System Engineering Support Services for Systems Engineering Group	Approved	7/27/18	\$3,089,670	(\$391,096)	---
E0128-TO-03	Overhead Contact Systems (OCS) Support for Maintenance of Wayside Engineering	Approved	9/11/18	\$309,751	(\$69,847)	
E0128-TO-04	System-wide Electrical Support for Rail and Bus Projects	Approved	9/11/18	\$145,244	(\$11,261)	
E0128-TO-05	Crenshaw Project Design Services During Construction	Approved	9/12/18	\$161,992	(\$95,532)	
E0128-TO-06	Rail Systems Engineering Support for New Blue	Approved	10/3/18	\$3,817,827	(\$368,522)	
E0128-TO-07	West Santa Ana Branch Systems Support	Approved	10/1/18	\$120,667	(\$41,121)	
E0128-TO-08	System-wide Operations and Maintenance Plan	Approved	10/10/18	\$798,543	(\$77,672)	

E0128-TO-09	Division 20 Portal Widening Turnback Project Systems Engineering Support	Approved	10/30/18	\$882,609	(\$40,017)	
E0128-TO-10	West Santa Ana Branch (WSAB) Project Conceptual Engineering	Approved	11/16/18	\$5,100,555	(\$227,492)	
E0128-TO-11	East San Fernando Valley (ESFV) Conceptual Engineering	Approved	12/3/18	\$3,862,840	(\$58,686)	
E0128-TO-12	Metro Blue Line Track and OCS Refurbishment	Approved	3/21/19	\$1,545,042	---	---
E0128-TO-13	Metro Systems Support for Green Line/Crenshaw Operations	Approved	4/10/19	\$262,675	---	---
E0128-TO-14	Metro Red/Purple Line and Regional Connector Operational Simulation Support	Approved	4/25/19	\$677,959	---	---
E0128-TO-15	Airport Metro Connector Engineering Support	Approved	9/12/19	\$360,138	---	---
E0128-TO-17	Centinela Grade Separation Conceptual Engineering	Approved	11/4/19	\$75,574	---	---
EO128-00-MOD-00001	Update to Advanced Cost Agreement (LTK, DE, GF and IC)	Approved	9/6/18	\$0.00	---	---
EO128-00-MOD-00002	Updates to Advanced Cost Agreement (Home Office Rates 2019: Atkins, FN, GF, IEI, ICI, RCS)	Approved	12/14/18	\$0.00	---	---

EO128-00-MOD-00003	Revise Spec. Section CP-04 Payment & Invoicing Part C.1 - Invoicing	Approved	1/11/19	\$0.00	---	---
EO128-00-MOD-00004	Direct Hourly Labor Rates Adjusted for 2019	Approved	2/6/19	\$0.00	---	---
	Subtotal Approved TOs			\$26,174,847		
E0128-TO-18	Metro Gold Line Foothills 2B Extension Systems Engineering Support	Pending	TBD		---	\$145,500
E0128-TO-19	Metro Gold Line Eastside Phase 2 Conceptual Engineering	Pending	TBD		---	\$700,000
TBD	Future Anticipated Task Orders	Pending	TBD			\$3,324,126
	Subtotal Pending TOs					\$4,169,626
E0128-TO-16	Rail Operations Center (ROC) / Bus Operations Center (BOC) Architectural and Engineering Systems Design Services	Pending	TBD		---	\$15,000,000
	Subtotal This Board Action					\$19,169,626
	Task Orders Approved			\$26,174,847		
	Task Order Pending Mods				(\$1,412,473)	
	Pending TO					\$19,169,626
	Adjusted Contract Value Including TO Mods and Pending TO			\$24,762,374		
	Total Pending TOs Plus This Board Action			\$19,169,626		

	Total TO Amount			\$43,932,000		
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SUMMARY						
	Adjusted Contract Value			\$24,762,374		
	Pending TOs			\$4,169,626		
	Board Approved Funding			\$28,932,000		
	This Board Action			\$15,000,000		
	New Contract Value			\$43,932,000		

Attachment D**ALLOCATION FROM FY20 BUDGET**

Union	Position	# of FTEs	Start (MMM- YY)	End (MMM- YY)*
NC	Manager, Rail Transportation	1	Feb-20	Feb-25
NC	Manager, Bus Transportation	1	Feb-20	Feb-25
NC	Supervising Engineer (SCADA)	1	Feb-20	Feb-25
NC	Senior Manager, Systems Projects	1	Feb-20	Feb-25

*or to Project Completion

4