



**Board Report**

**File #:** 2020-0286, **File Type:** Informational Report

**Agenda Number:** 26.

**CONSTRUCTION COMMITTEE  
MAY 21, 2020**

**SUBJECT: SUPPLEMENTAL ENGINEERING SERVICES (SES) CONSULTANT SERVICE  
CONTRACT**

**ACTION: CONTRACT MODIFICATION**

**RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to:

- A. EXERCISE a one-year extension option for Task Order Contract No. AE36687 with Mott MacDonald Group for Supplemental Engineering Services for Engineering Design of Rail and Highway Transportation Projects, extending the period of performance from June 22, 2020 through June 22, 2021.
- B. INCREASE the total contract value for Contract No. AE36687 with Mott MacDonald Group for Supplemental Engineering Services for Engineering Design for Rail and Highway Transportation Projects not-to-exceed \$2,500,000 increasing the total contract value from \$15,000,000 to \$17,500,000. Work will only be authorized by specific task orders, funded by specific project budgets.
- C. NEGOTIATE and EXECUTE Task Orders and modifications within the Board approved contract amount.

**ISSUE**

On June 15, 2017, the board approved a three-year contract for Supplemental Engineering Services with Mott MacDonald Group for Engineering and Design of Rail and Highway Transportation Projects with an option for two one-year extensions and \$5,000,000 increase in the budget. The current requested board action is for approval to exercise a one-year option for extension and \$2,500,000 increase in the budget authority of the Contract, to \$17,500,000 total. The approval of this one-year option will provide the time and budget to continue the Engineering and Design services that are currently underway.

**BACKGROUND**

The Mott MacDonald Group has been providing engineering and design support services on several projects through various task orders. One of these task orders includes preliminary engineering services for the Metro Orange Line BRT Improvements consisting of Grade Separation at Sepulveda and Van Nuys Stations and the Orange Line Gating for at-grade crossings. The preliminary engineering design of the Metro Orange Line BRT Improvements is not yet complete and will require additional time and budget.

This is a Task Order contract. Funding for the tasks to be performed in this contract comes from already approved project budgets.

## **DISCUSSION**

Metro Engineering has developed this SES Contract to supplement Metro's engineering efforts. The SES consultant team has the capability of supporting its engineering group's technical disciplines.

Examples of Task Orders issued under this contract to date are:

- Preliminary engineering services for Metro Orange Line BRT Improvements
- MBL Special Trackwork Design
- MBL Fare Gates Addition Project
- MGL Track 2 Near Harbor Freeway Station Survey
- Expo/Crenshaw West Side Portal Conceptual Design
- Metro Expo II MSE Walls 726 and 727 Survey Monitoring Program
- MOL Colfax Recycled Water Project
- Conceptual Design/Planning in Support of the Metrolink SB/Gold Line Task Force
- MGL ROW and Easement Survey for Immediate Remedial Measures

The technical proficiencies required for this SES contract (PS8510-3002) are very comprehensive and include all engineering and specialties disciplines which Metro may require in support of its projects. These include the following:

General Services include:

1. Preliminary and Final Design of Transportation including Rail and Highway Projects.
2. Design Review Support & Coordination for CIP projects & other special projects.
3. Production of Project Status, Technical and Engineering Reports.
4. Design of Structures, Stations and Guideways.

5. Facilities/Systems Interface Coordination.
6. Surveying Services.
7. Cost Estimating.
8. Intra/Inter Disciplinary Coordination.
9. Scheduling and Cost Management for Task Orders.
10. Post Design Services including; Bid and Design Support during Construction.
11. Administrative Tasks associated with General Engineering Support Services.

Specific Rail Facilities and Third-Party Utility Design Services include:

12. Engineering Services for Review and Approval of Metro Projects.
13. Development of Technical Specifications, Drawings and Reference Documents.
14. Engineering Services for support of Metro Rail Operations and Maintenance.
15. Land Surveying and Legal Description.
16. Potholing.
17. Geotechnical Services, Borings and Reports.
18. Civil & Utility Engineering
19. Drainage Design and Hydraulic Calculations.
20. Structural Engineering.
21. Bridges and Aerial Structure Design.
22. Tunnels, Trenches and Underground Station Design.
23. Track Work Engineering, Plan and Profile.
24. CPUC Grade Crossing Application including attendance to field diagnostic meetings.
25. Yard and Shop Rail Maintenance Facility Design.
26. Architectural Design.
27. Station Site Development.
28. Urban Design Integration.
29. Landscape Architecture.
30. Traffic Control Plans including Striping Drawings and Signal Drawings.
31. CADD and MicroStation Drawings.
32. BIM Services and Training.
33. Project Presentation including Three-Dimensional Rendering.
34. Corrosion Control Measures and Cathodic Protection.
35. Noise and Vibration Analysis including Site Visits, Measurement and Mitigation.
36. Any other engineering or technical discipline not listed above that is ancillary to the Statement of Work and consistent with the general requirements of an approved Task Order.
37. HVAC design including HVAC and emergency ventilation.
38. Electrical Design.
39. Plumbing Design.
40. Fire Protection Design.
41. Value Engineering and Cost Reduction.

**DETERMINATION OF SAFETY IMPACT**

This Board Action will not have an impact on established safety standards for Metro's Construction Projects.

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## **FINANCIAL IMPACT**

The funding for these services is included in the approved FY20 budget in various Capital Projects. Task Orders will be issued and funded from the associated future fiscal year and Life-of-Project (LOP) budgets. The funding source differs depending on the individual project. These activities will remain within the approved LOP for each project. The specialized design for the MOL Grade Separation requires additional Task Orders which would exceed the current Not to Exceed Amount.

Since this is a multi-year contract, the cost center manager and Chief Officer, Program Management, will be accountable for the budgeting the cost of the annual work program.

## **IMPACT TO BUDGET**

The funding for the task orders is provided by the specific project requiring the services. The source for these funds is in line with the respective projects' funding plans and fund sources may consist of federal and/or state grants as well as local funds. Many of the state of good repair projects are funded with local funding sources that are eligible for rail and bus operations.

## **IMPLEMENTATION OF STRATEGIC PLAN GOALS**

This will promote Metro's strategic goal of expanding the transportation network and increasing mobility for all users.

## **ALTERNATIVES CONSIDERED**

The Board may elect to not exercise this option with Mott MacDonald for the Supplemental Engineering Services. Staff does not recommend this alternative as the design they are assigned are in various degrees of design development, construction or the cost and schedule for each of these projects would be significantly impacted. Specifically, Mott MacDonald is performing preliminary engineering services for the Metro Orange Line BRT which requires extensive amount of coordination between Sepulveda Transit Corridor and East San Fernando Valley Transit Corridor (ESVFTC) projects as both projects have a station at the Metro Orange Line. The interface between ESVFTC terminus station with the proposed aerial station for Metro Orange Line improvements at Van Nuys is particularly important and requires extensive coordination between the two design teams to create a seamless circulation and transfer for the patrons using the station. Mott MacDonald has been performing this task, but the preliminary engineering design of the Metro Orange Line BRT Improvements is not yet complete and will require additional time and budget. Not exercising this option will adversely affect these three important projects. In addition, the cost of procuring another consultant in a timely manner would create potential delay to existing contracts where they are currently supporting Metro Engineering staff to design these projects.

Another alternative would be to hire Metro staff to perform the required services. This alternative is

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also not recommended as it would be difficult to obtain qualified staff in a timely manner, and the services are only required on a periodic basis for peak workloads or specific tasks over the life of the project.

### **NEXT STEPS**

Upon Board approval, staff will issue a Contract Modification to exercise a one-year option, and issue Contract Task Orders, as needed.

### **ATTACHMENTS**

- Attachment A: Procurement Summary
- Attachment B: Contract Task Order/Modification Log
- Attachment C: DEOD Summary

Prepared by:

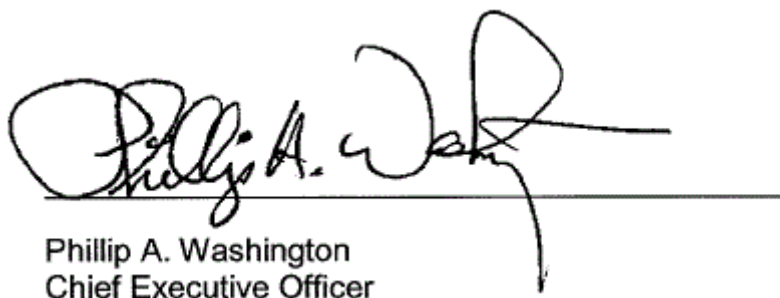
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Phillip A. Washington  
Chief Executive Officer

## PROCUREMENT SUMMARY

## SUPPLEMENTAL ENGINEERING SERVICES (SES)

1.	<b>Contract Number:</b> AE36687		
2.	<b>Contractor:</b> Mott MacDonald Group		
3.	<b>Mod. Work Description:</b> Funding for additional Contract Task Orders for MOL BRT Improvements		
4.	<b>Contract Work Description:</b> Supplemental Engineering Services (SES)		
5.	<b>The following data is current as of:</b> April 28, 2020		
6.	<b>Contract Completion Status</b>		<b>Financial Status</b>
	<b>Contract Awarded:</b>	June 22, 2017	<b>Original authorized funding limit:</b> \$ 15,000,000.00
	<b>Contract Executed Date:</b>	July 17, 2017	<b>Total of Contract Work Orders and Modifications Approved:</b> \$ 12,734,877.70
	<b>Original Completion Date:</b>	June 22, 2020	<b>Proposed and Pending Contract Work Orders and Modifications (including this action):</b> \$ 4,765,122.30
	<b>Current Est. Completion Date:</b>	June 22, 2022	<b>Total authorized funding limit (with this action):</b> \$ 17,500,000.00
7.	<b>Contract Administrator:</b> Robert Romanowski		<b>Telephone Number:</b> (213) 922-2633
8.	<b>Project Manager:</b> Aspet Davidian		<b>Telephone Number:</b> (213) 922-5258

**A. Procurement Background**

On June 22, 2017, the Board approved award of Contract No. AE36687 Mott MacDonald Group for three years with funding approval through FY2020 in the amount of \$15,000,000, for the Scope of Work included in the Supplemental Engineering Services (SES) Contract.

Attachment B shows that Twenty-Two Contract Task Orders and their Modifications have been issued to date to authorize and/or delete work, totaling \$12,734,877.70.

This Board Action is to approve an increase to the total authorized funding for Contract No. AE36687 in support of additional Supplemental Engineering Services (SES) needs.

## **B. Cost/Price Analysis**

All direct labor rates as modified by the annual economic price adjustment and the negotiated fixed fee factor for this cost reimbursable plus fixed fee contract remain unchanged from the original contract.

A fair and reasonable price for all future Contract Work Orders will be determined based upon fact finding, scope definition, technical evaluation, cost analysis, and negotiations before issuing work to the Consultant. Contract Work Orders will be processed in accordance with Procurement Policies and Procedures, within the additional funding requested.

## CONTRACT TASK ORDER / MODIFICATION LOG

Task Order Number	Task Order Title	Task Order Award Amt	Approved Mods	Proposed and Pending Task Orders / Mods	Revised Task Order Award Amt	Completion Date	Status
AE36687-001	MOL Improvements Project - Preliminary Engineering Services	\$5,000,000.00	\$5,600,000.00	\$0.00	\$10,600,000.00	6/30/2021	Approved
AE36687-001-MOD-TBD	MOL Improvements Project - Design Development of Sepulveda and Van Nuys Stations Grade Separation and Gated Crossings			\$3,207,769.30	\$3,207,769.30	6/20/2022	<u>Pending</u>
AE36687-001A	MOL BRT Improvements - Engineering Support for Outreach Program	\$112,200.00	\$0.00	\$0.00	\$112,200.00	03/31/2018	Approved
AE36687-002	Supplemental Engineering Services - Geotechnical Engineering Support	\$240,000.00	(\$163,916.80)	\$0.00	\$76,083.20	02/28/2018	Approved
AE36687-003	Sepulveda Blvd Survey at Ovada PI	\$18,916.33	\$0.00	\$0.00	\$18,916.33	09/15/2017	Approved
AE36687-004	Cancelled	\$0.00	\$0.00	\$0.00	\$0.00		Cancelled
AE36687-005	MBL Special Trackwork Design including DSDC	\$382,261.43	\$491,910.00	\$0.00	\$874,171.43	7/31/2020	Approved
AE36687-006	Virginia TPSS Survey Services	\$10,297.88	\$0.00	\$0.00	\$10,297.88	12/31/2017	Approved
AE36687-007	Blue Line Fare Gates Addition Project Site Services	\$14,149.60	\$0.00	\$0.00	\$14,149.60	01/31/2018	Approved
AE36687-009	Lankershim Depot Park Topographic Survey Services	\$3,375.20	\$0.00	\$0.00	\$3,375.20	01/31/2018	Approved
AE36687-010	Lankershim Depot Park Landscape Architect - Design Review Services	\$7,265.22	\$14,594.57	\$0.00	\$21,859.79	01/31/2018	Approved
AE36687-011	Metro Blue Line Del Amo Station Survey	\$10,533.00	\$0.00	\$0.00	\$10,533.00	06/30/2018	Approved
AE36687-012	Legal Description Review for Vista Canyon/City of Santa Clarita Development Project	\$8,800.00	\$5,859.25	\$0.00	\$14,659.25	06/30/2018	Approved
AE36687-013	Metro Green Line Track 2 Near Harbor Freeway Station Survey	\$33,901.00	\$2,349.00	\$0.00	\$36,250.00	09/30/2019	Approved
AE36687-014	Expo/Crenshaw West Side Portal Conceptual Design	\$124,983.00	\$9,000.00	\$0.00	\$133,983.00	06/30/2019	Approved



## CONTRACT TASK ORDER / MODIFICATION LOG

Task Order Number	Task Order Title	Task Order Award Amt	Approved Mods	Proposed and Pending Task Orders / Mods	Revised Task Order Award Amt	Completion Date	Status
AE36687-015	Metro Expo II Line MSE Walls 726 and 727 Survey Monitoring Program	\$55,759.00	\$0.00	\$0.00	\$55,759.00	03/31/2020	Approved
AE36687-016	Metro Expo II Line MSE Walls 726 and 727 - Top of Rails Survey	\$32,914.00	\$0.00	\$0.00	\$32,914.00	03/31/2020	Approved
AE36687-017	Metro Orange Line Colfax Recycled Water Project	\$76,738.00	\$46,438.00	\$79,413.00	\$202,589.00	6/30/2021	<u>Pending</u>
AE36687-018	Washington Satellite Yard Topographic Survey for the New Blue Project	\$18,033.00	\$7,389.02	\$0.00	\$25,422.02	03/31/2019	Approved
AE36687-019	Conceptual Design/Planning in Support of the Metrolink SB/Gold Line Task Force	\$443,999.00	\$0.00	\$0.00	\$443,999.00	9/30/2020	Approved
AE36687-020	Landscape Arch. Support for Metro Expo Line Bike Path Landscape Repairs/Turnover	\$24,739.00	\$0.00	\$0.00	\$24,739.00	09/30/2019	Approved
AE36687-021	Ridership Modeling and Risk Analysis	\$78,372.00	\$0.00	\$0.00	\$78,372.00	09/30/2019	Approved
AE36687-022	Metro Gold Line ROW and Easement Survey for Immediate Remedial Measures in the Vicinity of N Virginia Ave Grade Crossing Azusa	\$24,018.00	\$0.00	\$0.00	\$24,018.00	06/20/2020	Approved
AE36687-023	MOL Improvements Project - Pilot Gates Project			\$1,477,940.00	\$1,477,940.00	6/20/2021	<u>Pending</u>
<b>Totals:</b>		<b>\$6,721,254.66</b>	<b>\$6,013,623.04</b>	<b>\$4,765,122.30</b>	<b>\$17,500,000.00</b>		

## DEOD SUMMARY

## SUPPLEMENTAL ENGINEERING SERVICES (SES)

**A. Small Business Participation**

Mott MacDonald Group made a 17% Small Business Enterprise (SBE) and 3% Disabled Veteran Business Enterprise (DVBE) overall commitment for this on-call contract. The overall SBE/DVBE participation for the on-call contract is based on the cumulative value of all task orders issued.

To date, twenty-two (22) task orders have been awarded. Based on payments reported, the project is 50.7% complete. The cumulative SBE participation of all task orders awarded is 30.63%. Mott MacDonald Group is exceeding its SBE commitment by 13.63%. The cumulative DVBE participation of all task orders awarded is 2.35%, representing a .65% shortfall.

According to Mott MacDonald and concurred by Metro's Project Manager, the prime began assigning additional scope to the DVBE subconsultant in March of 2020. Mott MacDonald Group anticipates meeting its DVBE commitment, as design work progresses to 100 percent.

Notwithstanding, Metro Project Managers and Contract Administrators will work in conjunction with DEOD to ensure that Mott MacDonald Group remains on schedule to meet or exceed its SBE and DVBE commitments.

<b>Small Business Commitment</b>	<b>17% SBE</b>	<b>Small Business Participation</b>	<b>30.63% SBE</b>
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	<b>SBE Subcontractors</b>	<b>Scope of Work</b>	<b>Current Participation</b>
1.	Anil Verma	Mechanical, Electrical, and Plumbing Engineering and Architecture Services	1.79%
2.	Arellano Associates	Public Outreach, Communications, Stakeholder Engagement	TBD
3.	BA Inc.	Utility Design Engineering	5.92%
4.	Earth Mechanics	Geotechnical and Earthquake Engineering	.0.79%
5.	Engineering Solutions Services	Grant Writing, Structural Engineering	TBD
6.	Gibson Transportation	Transportation Engineering	TBD
7.	Lenax	Cost Estimating Services	2.20%

8.	McLean & Shultz	Architectural, Structural, and Civil Engineering Design Services	4.15%
9.	Morgner Construction Management	Construction Management Support Services, Pre-Construction Surveys	TBD
10.	PacRim Engineering	Structural Design Support	.55%
11.	Rail Surveyors Engineers	Rail Transit Engineering and Surveying	6.09%
12.	Terry Hayes and Associates	Environmental Services	TBD
13.	The Alliance Group	Utility Engineering Design, Coordination, Management, Third Party Coordination	1.47%
14.	The Solis Group	Project Controls: Scheduling and Document Control	0.46%
15.	Wagner Engineering	Land Surveying, Mapping, and Right of Way Engineering	7.01%
16.	Translink (Added)		0.20%
Total SBE Participation			30.63%

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

<b>Small Business Commitment</b>	<b>3% DVBE</b>	<b>Small Business Participation</b>	<b>2.35% DVBE</b>
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	<b>DVBE Subcontractors</b>	<b>Scope of Work</b>	<b>Current Participation</b>
1.	MA Engineering	Civil Engineering Services	1.96%
2.	Leland Saylor (Added)		0.39%
Total DVBE Participation			2.35%

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

## **B. Living Wage and Service Contract Worker Retention Policy Applicability**

A review of the current service contract indicates that the Living Wage and Service Contract Worker Retention Policy (LW/SCWRP) was not applicable at the time of award. Therefore, the LW/SCWRP is not applicable to this modification.

## **C. Prevailing Wage Applicability**

Prevailing Wage requirements are applicable to this project. DEOD will continue to 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, construction management and other support trades.

**D. Project Labor Agreement/Construction Careers Policy**

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. Project Labor Agreement/Construction Careers Policy is applicable only to construction contracts that have a construction contract value in excess of \$2.5 million.