



## Board Report

File #: 2018-0116, File Type: Contract

Agenda Number: 41.

### SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE JUNE 21, 2018

**SUBJECT: ENTERPRISE TRANSIT ASSET MANAGEMENT (ETAM)  
SERVICES**

**ACTION: AWARD BENCH CONTRACTS**

#### **RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to:

A. AWARD task order based bench Contract Nos. PS49169000 through PS49169013 to the firms listed below and in Attachment A, for a not-to-exceed amount of \$15,000,000, to provide ETAM services for a seven-year term effective July 1, 2018 through June 30, 2025, subject to resolution of protests(s), if any. The following firms are recommended for award:

1. Accenture, LLP
2. AECOM Technical Services, Inc.
3. Anil Verma Associates, Inc.
4. EMG
5. Intueor Consulting, Inc.
6. Kaygen, Inc.
7. Morgner Construction Management
8. Pacific Railway Enterprises, Inc.
9. Rail Surveyors and Engineers, Inc.
10. Raul V. Bravo + Associates, Inc.
11. Turner & Townsend AMCL, Inc.
12. Vehicle Technical Consultants, Inc.
13. Virginkar & Associates, Inc.
14. WSP USA, Inc.; and

B. EXECUTE individual task orders under these Contracts for ETAM services in a total amount not-to-exceed \$15,000,000.

#### **ISSUE**

Transit Asset Management (TAM) involves activities related to procuring, operating, maintaining, rehabilitating and replacing existing assets, such as equipment, rolling stock, facilities and

infrastructure to keep them in a State of Good Repair (SGR). The Federal Transit Administration (FTA) final TAM rule took effect October 1, 2016 and includes requirements to develop TAM Plans by October 2018 including monitoring asset conditions and developing decision support processes to maintain the system for safe and reliable service. Metro is currently updating the 2015 TAM Plan which includes a list of 25 actions for implementation that will provide Metro with improved capabilities to maintain a SGR and provide the information to fully respond to FTA's requirements to report on asset inventories, conditions, performance and prioritization of SGR projects to renew existing assets.

To respond to the FTA requirements, the Enterprise Transit Asset Management (ETAM) department requires professional services in the nine TAM disciplines. Many of the projects and studies required for ETAM tasks are small to mid-scale that, once identified, must be initiated and completed in a relatively short period of time to comply with the FTA's annual SGR reporting requirements, and Metro's short and long range planning processes. The ETAM Bench will allow task orders to be awarded more efficiently since the initial qualification reviews have been completed.

## **DISCUSSION**

The ETAM department was formally established in 2015 within Risk, Safety and Asset Management (RSAM) to develop and administer a Metro-wide integrated asset management program and is responsible for implementation of the TAM Plan. Approximately 43 task orders are anticipated to be issued against the nine disciplines included in this bench over the next seven years. A seven year bench period will allow multiple cycles of condition assessments and other task orders for each discipline. The nine disciplines are listed below:

1. Inventory Build Out and Assessment;
2. Rolling Stock and Equipment Condition Assessments;
3. Facilities and Stations Condition Assessments;
4. Guideway Systems and Elements Condition Assessments;
5. Financial, Cost, Risk and Life Cycle Analysis;
6. Advanced Reliability Techniques and Process Improvement;
7. Transit Asset Management (TAM) Planning;
8. Information and Technology; and
9. TAM Engineering Support.

The disciplines were developed to reflect the specific needs for TAM capabilities including lifecycle planning, conducting condition assessments on major asset categories including capital project prioritization, applying condition based maintenance techniques, computer programming, and specialized engineering support.

In the development of the Bench, an emphasis was placed on encouraging teams with a number of firms to broaden their scope of services and areas of expertise. Consequently, a wide range of opportunities for small, disadvantaged and veteran-businesses were made available for this procurement.

In addition to providing opportunities to many firms, the Bench approach also streamlines

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procurement processes for Metro and the business community by consolidating numerous, laborious and costly contracting opportunities into one contract. This prevents individual procurement processes and delays to ETAM services requirements. The ETAM Bench will enhance efficiency by allowing us to issue task orders to firms to complete necessary work identified during inspections in a timely manner.

### **DETERMINATION OF SAFETY IMPACT**

The ETAM Bench will not directly impact specific safety issues of Metro's customers and employees. However, the results from task orders generated by this procurement will provide information on asset conditions, performance and costs. This information is necessary to make informed decisions on how to best prioritize investments to maintain the transit system in a state of good repair, as required by the FTA TAM regulation.

### **FINANCIAL IMPACT**

This contract award action is for \$15,000,000 over a seven-year period. Each task order awarded to a contractor will be funded with the source of funds identified for that project. Since these are multi-year contracts, the cost center manager and Chief Risk, Safety and Asset Management Officer will be responsible for budgeting costs in future years.

#### **Impact to Budget**

Funding for FY19 has been included in the Risk, Safety and Asset Management cost centers. There is no single source of funds that will unilaterally fund these contracts and funding for the task orders is dependent upon the specific task. Generally, Propositions A and C, Measure R and M, Transportation Development Act (TDA) Administration, State and FTA funds used for planning activities, which are not eligible for bus or rail capital, can be used. Use of all related funding will maximize allowable funding allocations given approved funding provisions.

### **ALTERNATIVES CONSIDERED**

1. Pursue the extended full procurement processes and solicit proposals for each individual task when the requirement arises. This alternative is not recommended as it would place an undue burden on the small business community, requiring them to expend significant and costly resources to respond to additional procurement requirements each year. It would also require extensive staff time to develop the full procurements for each individual task. This would delay the completion of ETAM tasks and potentially impact submittal of the annual SGR reports to the FTA which may jeopardize Metro's eligibility to receive federal funding.
2. Utilize existing ETAM staff to provide the required support services. This alternative is also not feasible as Metro's current ETAM staff does not possess all of the required skills for key tasks (such as determining optimum asset lifecycles, reliability centered maintenance techniques, computer programming, etc.) and are being fully utilized to support existing projects and programs. If this alternative were exercised, Metro would need to hire additional staff with expertise in multiple disciplines to perform the needed work. Based on staffing trends,

candidates with the required rail maintenance skills are in high-demand, Metro cannot adequately support this effort in-house during the time frame.

3. Utilize existing engineering and technical maintenance staff in the Operations and Construction departments to provide the required technical support. This is not feasible as the current budgeted engineering and technical capacity in the Operations and Construction departments is fully utilized to maintain the current system, oversee the acceptance of new lines that will start operating during the next seven years and on developing future expansion projects.

For these reasons none of the alternatives are recommended as they would create significant impacts to current operations and efforts to deliver the Metro expansion program.

### **NEXT STEPS**

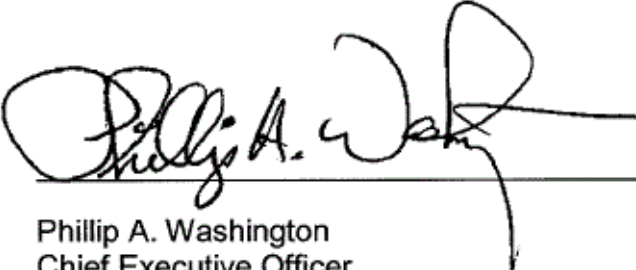
Upon Board approval, staff will establish and execute the bench contracts for enterprise transit asset management services, effective July 1, 2018, and will competitively award individual task orders, on an as-needed basis.

### **ATTACHMENTS**

Attachment A - Procurement Summary  
Attachment A-1 - Recommended Firms By Discipline  
Attachment B - DEOD Summary

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Phillip A. Washington  
Chief Executive Officer

**ATTACHMENT A-1**

**RECOMMENDED FIRMS BY DISCIPLINE  
ENTERPRISE TRANSIT ASSET MANAGEMENT (ETAM) BENCH**

DISCIPLINE	CONTRACTORS
1. Inventory Build Out and Assessment	1. Anil Verma Associates, Inc. 2. EMG 3. Raul V. Bravo + Associates, Inc. 4. WSP USA Inc.
2. Rolling Stock and Equipment	1. Pacific Railway Enterprises, Inc. 2. Raul V. Bravo + Associates, Inc. 3. Virginkar & Associates, Inc. 4. WSP USA Inc.
3. Facilities and Stations	1. Raul V. Bravo + Associates, Inc. 2. Rail Surveyors and Engineers, Inc. 3. WSP USA Inc.
4. Guideway systems and Elements	1. Pacific Railway Enterprises, Inc. 2. Raul V. Bravo + Associates, Inc. 3. Rail Surveyors and Engineers, Inc. 4. WSP USA Inc.
5. Financial, Cost, Risk and Life Cycle Analysis	1. AECOM 2. Accenture, LLP 3. WSP USA Inc.
6. Advanced Reliability Maintenance Techniques and Process Improvement	1. Accenture, LLP 2. Raul V. Bravo + Associates, Inc. 3. Vehicle Technical Consultants, Inc.
7. TAM Planning	1. AECOM 2. Accenture, LLP 3. Raul V. Bravo + Associates, Inc. 4. Turner & Townsend AMCL Inc. 5. WSP USA Inc.
8. Information and Technology Systems (ITS) and Data Management	1. Accenture, LLP 2. Intueor Consulting, Inc. 3. Kaygen, Inc. 4. Raul V. Bravo + Associates, Inc.
9. TAM Engineering Support	1. Morgner Construction Management 2. Pacific Railway Enterprises, Inc. 3. Raul V. Bravo + Associates, Inc.

## PROCUREMENT SUMMARY

**ENTERPRISE TRANSIT ASSET MANAGEMENT (ETAM) BENCH /  
PS49169000-PS49169013**

<b>1.</b>	<b>Contract Number:</b> PS49169000 – PS49169013	
<b>2.</b>	<b>Recommended Vendor:</b> See Below	
<b>3.</b>	<b>Type of Procurement</b> (check one): <input type="checkbox"/> IFB <input type="checkbox"/> RFP <input type="checkbox"/> RFP-A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order <input checked="" type="checkbox"/> RFIQ	
<b>4.</b>	<b>Procurement Dates:</b>	
	<b>A. Issued:</b> January 16, 2018	
	<b>B. Advertised/Publicized:</b> January 16, 2018	
	<b>C. Pre-proposal/Pre-Bid Conference:</b> January 25, 2018	
	<b>D. Proposals/Bids Due:</b> March 1, 2018	
	<b>E. Pre-Qualification Completed:</b> In process	
	<b>F. Conflict of Interest Form Submitted to Ethics:</b> March 28, 2018	
	<b>G. Protest Period End Date:</b> June 21, 2018	
<b>5.</b>	<b>Solicitations Picked up/Downloaded:</b> 120	<b>Bids/Proposals Received:</b> 39 (from 14 firms)
<b>6.</b>	<b>Contract Administrator:</b> Annie Duong	<b>Telephone Number:</b> (213) 418-3048
<b>7.</b>	<b>Project Manager:</b> Joseph Urzua	<b>Telephone Number:</b> (213) 617-6283

**A. Procurement Background**

This Board Action is to approve the award of bench Contract Nos. PS49169000 through PS49169013, issued in support of Metro's Enterprise Transit Asset Management (ETAM) department for a seven-year term, effective July 1, 2018 through June 30, 2025, for a cumulative total amount not-to-exceed \$15,000,000. The services will be performed on an as-needed basis for which task orders will be issued. Board approval of these contract awards are subject to resolution of any properly submitted protest(s).

Request for Information and Qualifications (RFIQ) No. PS49169 was issued in accordance with Metro's Acquisition Policy, and the contract type is task-order based.

The RFIQ was issued to establish qualified contractors with expertise in one or more of the disciplines as outlined in the statement of work to assist with the ETAM department. Proposers were allowed to submit qualifications for one or more disciplines.

Two amendments were issued during the solicitation phase of this RFIQ:

- Amendment No. 1, issued on January 25, 2018, provided revisions to the Letter of Invitation (LOI) and extended the proposal due date.

- Amendment No. 2, issued on February 8, 2018, provided revisions to the submittal requirements, proposal content, and additional certified lists for SBEs and DBEs under NAICS code 54161.

A total of 39 proposals were received from 14 proposers on the due date of March 1, 2018 from the firms listed below, in alphabetical order:

1	Accenture, LLP
2	AECOM Technical Services, Inc.
3	Anil Verma Associates, Inc.
4	EMG
5	Intueor Consulting, Inc.
6	Kaygen, Inc.
7	Morgner Construction Management
8	Pacific Railway Enterprises, Inc.
9	Rail Surveyors and Engineers, Inc.
10	Raul V. Bravo + Associates, Inc.
11	Turner & Townsend AMCL, Inc.
12	Vehicle Technical Consultants, Inc.
13	Virginkar & Associates, Inc.
14	WSP USA, Inc.

## **B. Evaluations of Proposals**

The Proposal Evaluation Team (PET) consisting of staff from Metro’s Asset Management, Maintenance, Rail Fleet Services, Facilities Engineering, Systems Engineering, Rail MOW Engineering, Countywide Planning, and Rail Vehicle Engineering Departments was convened and conducted a comprehensive technical evaluation of the proposals received. The proposals were evaluated based on the following evaluation criteria and weights established in the RFIQ:

- Firm’s Qualification and Availability 30 percent
- Project Manager and Key Staff’s Project Understanding and Implementation Approach 40 percent
- Effective Scheduling/Cost Management Plan 30 percent

The evaluation criteria are appropriate and consistent with criteria developed for other similar services.

Of the 39 proposals received, six proposals were determined to be outside the competitive range and were excluded from further consideration. The remaining 33 proposals from the 14 firms listed below were determined by the PET to be qualified for inclusion in the bench in one or more disciplines shown in Attachment A-1. Of the 14 recommended firms, eight firms are Metro certified Small Business Enterprise (SBE)/Disadvantaged Business Enterprise (DBE).

No.	CONTRACT NO.	FIRM
1	PS49169000	Accenture, LLP
2	PS49169001	AECOM Technical Services, Inc.
3	PS49169002	Anil Verma Associates, Inc.
4	PS49169003	EMG
5	PS49169004	Intueor Consulting, Inc.
6	PS49169005	Kaygen, Inc.
7	PS41969006	Morgner Construction Management
8	PS49169007	Pacific Railway Enterprises, Inc.
9	PS49169008	Rail Surveyors and Engineers, Inc.
10	PS49169009	Raul V. Bravo + Associates, Inc.
11	PS49169010	Turner & Townsend AMCL, Inc.
12	PS49169011	Vehicle Technical Consultants, Inc.
13	PS49169012	Virginkar & Associates, Inc.
14	PS49169013	WSP USA, Inc.

**Accenture, LLP**

Accenture LLP (Accenture) is a multinational management consulting firm providing technology and outsourcing services. The firm was established in 1989 and is headquartered in Dublin, Ireland. Accenture has five Operating Groups, i.e., Communications, Media & Technology, Financial Services, Products, Resources, and Health & Public Service. Accenture has worked on Metro’s projects and has performed satisfactorily.

**AECOM Technical Services, Inc.**

AECOM Technical Services, Inc. (AECOM) was founded in 1990 and is headquartered in Los Angeles, California. AECOM is a global provider of professional, technical, and management support in the areas of transportation, planning, and environmental services. AECOM provides local knowledge, innovation, and technical excellence in delivering solutions to its clients. AECOM partners with public sector clients in order to meet client needs and objectives. AECOM has worked on several Metro projects and has performed satisfactorily.

**Anil Verma Associates, Inc.**

Anil Verma Associates, Inc. (AVA) was founded in 1985 and their primary office is in Los Angeles, California with branch offices in several U.S. and international cities. It offers clients a complete range of architectural-engineering services from development of initial project concepts and budgets to engineering, construction management, and turnover of completed facilities. AVA has designed and managed the construction of transportation and civil projects in the United States and internationally. AVA has worked on Metro projects and has performed satisfactorily. AVA is a Metro certified SBE and DBE firm.

**EMG**

Clampett Industries, LLC dba EMG, is based in Hunt Valley, Maryland and was founded in 1986. EMG is an architectural, engineering, and environmental consulting firm that



specializes in facility condition assessments, capital planning, inventory build out, feasibility studies, energy studies, project management, ADA accessibility compliance, construction monitoring, and plan and document review.

### **Intueor Consulting, Inc.**

Intueor Consulting, Inc. (Intueor) was incorporated in June 2005 and is headquartered in Irvine, California. Intueor is a strategy, operations and business technology consulting firm that specializes in public sector transit and transportation agencies. Intueor has worked on Metro projects and has performed satisfactorily. Intueor is a Metro certified SBE and DBE firm.

### **Kaygen**

Kaygen, Inc. (KI), was founded in 2003 and is located in Irvine, California. KI specializes in enterprise information management, delivering fit-for-propose solutions, IT strategy, financial analysis and risk management. The firm has become a go-to professional services provider for IT strategy, software evaluation and recommendations, data management, cloud services, data warehousing, systems integration including mobile devices, asset management, database administration and training. KI has worked on Metro projects and has performed satisfactorily. KI is a Metro certified SBE and DBE firm.

### **Morgner Construction Management**

Morgner Technology Management DBA, Morgner Construction Management (Morgner) was founded in 1992 and is located in Sherman Oaks, California. Morgner provides engineering, planning, and construction management services. The firm offers construction management services that include pre-construction surveys, electrical contracting, planning, scheduling, cost estimating, constructability review, contract administration, configuration management, and field engineering and inspection services. Morgner has worked on Metro projects and has performed satisfactorily. Morgner is a Metro certified SBE and DBE firm.

### **Pacific Railway Enterprises, Inc.**

Pacific Railway Enterprises, Inc. (PRE) was established in 1994 and is based in Riverside, California. PRE offers conditions assessment, inspection, testing and test monitoring services. PRE has worked on Metro projects and has performed satisfactorily. PRE is a Metro certified SBE and DBE firm.

### **Rail Surveyors Engineers**

Rail Surveyors and Engineers, Inc. (RSE), is a California-based corporation with offices in both the Los Angeles and San Francisco Bay area serving rail transportation markets. RSE was founded in 1998 and incorporated in California in 2001. They started a transit asset management (TAM) program with the FTA since 2011 and continued to provide support to Caltrans and Metrolink in developing and maintaining their TAM and state of good repair (SOGR) programs. RSE has worked on Metro projects and has performed satisfactorily. RSE is a Metro certified SBE and DBE firm.

### **Raul V. Bravo + Associates**

Raul V. Bravo + Associates Inc. (RVB+A), was founded in 1979 with a head office in Washington, D.C. with site offices around the world. RVB+A works for transit agencies in

various capacities, including serving as general engineering/quality assurance/administrative contractor/consultant services. The firm provides specialty areas of support such as for TAM, Buy America, and other services. In addition, they have actively participated in regulatory processes such as TAM, SOGR, Buy America, ADA, and safety/security. RVB+A is a Metro certified SBE and DBE firm.

**Turner & Townsend AMCL Inc.**

Turner & Townsend AMCL Inc. (T&TAMCL) was founded in 1997 and has offices in New York, Sydney, and Hong Kong. T&TAMCL has been providing services to clients in North America since 2012, and is recognized as one of the world's leading asset management professional services firm. The firm provides an end-to-end advisory service for infrastructure owners and investors, including capital program advisory services project and cost management, and procurement strategy and management.

**Virginkar & Associates, Inc.**

Virginkar & Associates, Inc. (VAI) was founded in 1990 and is based in Fullerton, California. VAI is a management consulting firm providing engineering and construction support, project management, construction management, inspections, and staff augmentation services for passenger bus and rail rolling stock, freight rail transportation, and bus route and rail track projects. VAI has worked on Metro projects and has performed satisfactorily. VAI is a Metro certified SBE and DBE firm.

**Vehicle Technical Consultants, Inc.**

Vehicle Technical Consultants Inc. (VTC) was established in 2001 and is located in Riverside, California. VTC is a maintenance management consulting firm providing engineering, accounting, research, and management services.

**WSP USA Inc.**

WSP USA Inc. (WSP), formerly WSP/Parsons Brinkerhoff, provides application of asset management best practices services, which include the development and refinement of asset inventories for various organizations. WSP's clients include California High-Speed Rail Authority, DART, and Sound Transit. WSP has worked on Metro projects and has performed satisfactorily.

**C. Cost/Price Analysis**

The RFIQ contained neither price nor a specific Statement of Work. Each future task order will contain a specific Statement of Work which will be competed among the firms within the discipline. These firms will propose according to the requirements of the task order and a cost/price analysis will be performed, as appropriate, on all task orders issued.

**D. Background on Recommended Contractors**

All 14 firms listed above are recommended for award. These firms have been evaluated and are determined to be responsive and responsible to perform work on Metro assignments on an as-needed, task order basis.

DEOD SUMMARY

ENTERPRISE TRANSIT ASSET MANAGEMENT (ETAM) BENCH / PS49169000-PS49169013

**A. Small Business Participation**

The Diversity & Economic Opportunity Department established a 15% DBE goal for task orders awarded with federal funds; a 12% SBE goal and a DVBE goal of 3% was established for task orders awarded with non-federal funds. Proposers were required to make DBE and SBE/DVBE commitments.

To be responsive, Enterprise Transit Asset Management Bench Proposers formed teams that included Disadvantaged Business Enterprise (DBE), Small Business Enterprise (SBE), and Disabled Veteran Business Enterprise (DVBE) firms without schedules or specific dollar commitments prior to the establishment of the Bench. DBE and SBE/DVBE participation will be determined based on the aggregate value of all federal and all non-federal task orders issued.

Of the fourteen proposers selected for the Bench contract, eight (8) are both DBE and SBE certified. There are eight (8) SBE Primes on the bench; as a result, Metro will first solicit task order proposals to the SBEs only, pursuant to the SBE Set-Aside Program. If the Set-Aside is not successful, the task order will be solicited to other participants on the Bench, who will be required to meet the 12% SBE and 3% DVBE contract-specific goal.

In response to a task order request, the prime contractor will be required to identify DBE subcontractor activity and actual dollar value commitments for that task order. Overall DBE achievement in meeting the commitment will be determined based on the aggregate of actual DBE participation on all task orders awarded.

<b>Small Business Goal</b>	<b>15% DBE 12% SBE 3% DVBE</b>	<b>Small Business Commitment</b>	<b>15% DBE 12% SBE 3% DVBE</b>
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**Prime: Accenture**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Anil Verma Associates	Subcontinent Asian American	TBD
2.	Casamar Group, LLC	Hispanic American	TBD
3.	Media Arts DBA Catalyst Analytic Technologies	Caucasian Female	TBD

**Prime: Accenture (Cont.)**

4.	Intueor Consulting	Subcontinent Asian American	TBD
5.	Morgner Construction Management	Hispanic American	TBD
<b>Total DBE Commitment</b>			<b>15%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Anil Verma Associates	TBD
2.	Casamar Group, LLC	TBD
3.	Media Arts DBA Catalyst Analytic Technologies	TBD
4.	Intueor Consulting	TBD
5.	Morgner Construction Management	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Casamar Group, LLC	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: AECOM**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Anil Verma Associates	Subcontinent Asian American	TBD
2.	MA Engineering	Hispanic American	TBD
3.	Virginkar & Associates	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>15%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Anil Verma Associates	TBD
2.	MA Engineering	TBD
3.	Virginkar & Associates	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	MA Engineering	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Anil Verma Associates**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Anil Verma Associates (DBE Prime)	Subcontinent Asian American	TBD
2.	Casamar Group, LLC	Hispanic American	TBD
3.	Pacific Railway Enterprise	Caucasian Female	TBD
4.	Virginkar & Associates	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>30%</b>

**Prime: Anil Verma Associates (cont.)**

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Anil Verma Associates (SBE Prime)	TBD
2.	Casamar Group, LLC	TBD
3.	Pacific Railway Enterprise	TBD
4.	Virginkar & Associates	TBD
<b>Total SBE Commitment</b>		<b>15%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Casamar Group, LLC	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: EMG**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	AKANA	Native American	TBD
<b>Total DBE Commitment</b>			<b>15%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Construction Management Services, Inc.	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Construction Management Services, Inc.	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Intueor Consulting**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Intueor Consulting (DBE Prime)	Subcontinent Asian American	TBD
2.	Connixt, Inc.	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>30%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Intueor Consulting (SBE Prime)	TBD
2.	eVision Prtners	TBD
3.	Connixt, Inc.	TBD
<b>Total SBE Commitment</b>		<b>30%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Alta Vista Solutions	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Kaygen**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Kaygen (DBE Prime)	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>100%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Kaygen (SBE Prime)	TBD
<b>Total SBE Commitment</b>		<b>50%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	CFR & Associates	TBD
<b>Total DVBE Commitment</b>		<b>50%</b>

**Prime: Morgner Construction Management**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Morgner Construction Management (DBE Prime)	Hispanic American	TBD
2.	Media Arts DBA Catalyst Analytic Technologies	Caucasian Female	TBD
3.	NBA Engineering	Caucasian Female	TBD
4.	Casamar Group, LLC	Hispanic American	TBD
<b>Total DBE Commitment</b>			<b>85%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Morgner Construction Management (SBE Prime)	TBD
2.	Media Arts DBA Catalyst Analytic Technologies	TBD
3.	NBA Engineering	TBD
4.	Casamar Group, LLC	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Casamar Group, LLC	TBD
2.	Leland Saylor Associates	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Pacific Railway Enterprises**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Pacific Railway Enterprises (DBE Prime)	Caucasian Female	TBD
2.	Anil Verma Associates	Subcontinent Asian American	TBD
3.	Casamar Group, LLC	Hispanic American	TBD
4.	Zephyr UAS	Hispanic American	TBD
<b>Total DBE Commitment</b>			<b>33%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Pacific Railway Enterprises (SBE Prime)	TBD
2.	Anil Verma Associates	TBD
3.	Casamar Group, LLC	TBD
4.	Zephyr UAS	TBD
<b>Total SBE Commitment</b>		<b>33%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Casamar Group, LLC	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Raul V. Bravo + Associates**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Raul V. Bravo (DBE Prime)	Subcontinent Asian American	TBD
2.	Kal Krishnan Consulting	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>30%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Raul V. Bravo (SBE Prime)	TBD
2.	Kal Krishnan Consulting	TBD
<b>Total SBE Commitment</b>		<b>30%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Jeff Popovich Consulting	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Rail Surveyors Engineers**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Rail Surveyors Engineers (DBE Prime)	Asian Pacific American	TBD
2.	Armand Consulting	Subcontinent Asian American	TBD
3.	Kal Krishnan Consulting	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>90%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Rail Surveyors Engineers (SBE Prime)	TBD
2.	Armand Consulting	TBD
3.	Kal Krishnan Consulting	TBD
<b>Total SBE Commitment</b>		<b>97%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Leland Saylor Associates	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Turner & Townsend AMCL Inc.**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Lumenor Consulting Group	Subcontinent Asian American	TBD
2.	Pacific Rail Enterprise	Caucasian Female	TBD
<b>Total DBE Commitment</b>			<b>15%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Lumenor Consulting Group	TBD
2.	Pacific Rail Enterprise	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Pothos Inc.	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>



**Prime: Virginkar & Associates, Inc.**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Virginkar & Associates, Inc. (DBE Prime)	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>60%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Virginkar & Associates, Inc. (SBE Prime)	TBD
<b>Total SBE Commitment</b>		<b>60%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Flores Engineering & Consulting, Inc.	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Vehicle Technical Consultants**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Translutions, Inc.	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>20%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Translutions, Inc.	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	DRMcNatty & Associates, Inc.	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: WSP**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Anil Verma Associates	Subcontinent Asian American	TBD
2.	Capitol GCS	Hispanic American	TBD
3.	Draycott Consulting	Caucasian Female	TBD
4.	EF Enterprises	Hispanic American	TBD
5.	Intueor Consulting	Subcontinent Asian American	TBD
6.	Pacific Rail Enterprises	Caucasian Female	TBD
7.	Rail Surveyors & Engineering	Asian Pacific American	TBD
8.	Virginkar & Associates	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>15%</b>

**Prime: WSP (cont.)**

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Anil Verma Associates	TBD
2.	Capitol GCS	TBD
3.	EF Enterprises	TBD
4.	eVision Partners	TBD
5.	Intueor Consulting	TBD
6.	Pacific Rail Enterprises	TBD
7.	Rail Surveyors & Engineering	TBD
8.	Universal Corrosion Services	TBD
9.	Virginkar & Associates	TBD
<b>Total SBE Commitment</b>		<b>12%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Alta Vista Solutions	TBD
2.	Capitol GCS	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

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

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

**C. Prevailing Wage Applicability**

Pending the nature of work associated with each task order, prevailing wages may be applicable to this contract. 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, 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.