



Board Report

File #: 2019-0584, File Type: Contract

Agenda Number: 20.

OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE FEBRUARY 20, 2020

**SUBJECT: PROFESSIONAL AND TECHNICAL SERVICES FOR OPERATIONS SDSA
DEPARTMENT**

ACTION: APPROVE CONTRACT AWARD

RECOMMENDATION

AUTHORIZE the Chief Executive Officer to award a three-year, indefinite delivery/indefinite quantity (IDIQ), Contract No. PS64781000 to Cambridge Systematics, Inc. for professional and technical services in an amount not-to-exceed \$8,683,324, subject to resolution of protest(s) if any.

ISSUE

The Operations Service Development, Scheduling and Analysis (SDSA) Department of the Los Angeles County Metropolitan Transportation Authority (Metro) requires a diverse service firm to provide a broad range of professional services in various disciplines. Establishment of a support service contract will enable Metro to supplement internal resources on an on-call, as-needed basis in situations where either Metro does not have sufficient capacity or the expertise necessary to perform a task.

BACKGROUND

SDSA's work program continues to evolve and expand with projects ranging from speed and reliability infrastructure, new rail and BRT operations plans, planning for service disruptions, 2028 Olympics service planning, to big data analysis, and various customer experience initiatives. Many of these efforts require project specific support for staffing and technical capabilities. The IDIQ contract will allow task orders to be awarded quickly to be responsive to project and schedule requirements.

DISCUSSION

This is an IDIQ task order-based contract which establishes a range of services that include service planning, data reporting and analytics, traffic engineering services, financial analysis and forecasting, statistical analysis for data science, modeling, and forecasting, systems programming, installation of traffic control devices, and operations support. Work assignments will be provided on a task order basis to augment support in various disciplines for Operations SDSA department. Prior to each work task order authorization, SDSA will develop a scope of work, schedule, and independent cost estimate. Metro's Vendor/Contract Management will then request proposal details and pricing information and negotiate a fair and reasonable amount in accordance with

agreed upon Metro terms and conditions. The Diversity and Economic Opportunity Department (DEOD) established a 28% Disadvantaged Business Enterprise (DBE) goal for this Task Order Contract. Cambridge Systematics made a 28% DBE commitment.

In 2018 the Board adopted Metro Vision 2028 as the agency's strategic plan. This plan envisioned building a World Class Transportation System in which a World Class Bus System, inclusive of improved speed and reliability, is a cornerstone to its success. The SDSA department actively supports these initiatives by using the following eight disciplines of this contract, allowing SDSA to nimbly respond to requests as they arise based on identified needs in support of the projects. The following disciplines represent aspects of Service Planning and Analysis and are intended to fulfil the intent of Motion 22.1 NextGen Bus Speed Engineering Working Group (Attachment C):

1. **Service Planning** - Service policy and development support and analysis, bus/rail interface, and service planning/network design
2. **Data Reporting and Analytics** - Technical assistance in the analysis, design, development and implementation of data reporting and analytics projects, such as:
 - Spatial Analysis (GIS)
 - Survey Design and Implementation
 - Data Collection
 - Statistical Analysis
 - Data Validation
3. **Traffic Engineering Services** - Traffic counts, traffic forecasting for specified dates, traffic modeling, traffic studies and analysis, preparation of comprehensive traffic study reports, preparation of traffic congestion mitigation plans, recommendation of mitigation measures to improve traffic operations, advanced public transportation systems (ITS for transit and multiple modes), transit signal priority, dedicated bus lanes, transit queue jumpers, bulb outs, multimodal circulation analysis (transit, pedestrian, bicycle, roadway), operations analysis and simulation, network analysis, multimodal roadway capacity analysis, analysis of various priority treatments (e.g., for bicycles or transit)
4. **Financial Analysis and Forecasting** - Travel demand forecasting, including ridership demand modelling and socio-economic forecasting. Also includes: financial, operational, and service performance benchmarking with peer agencies and comparable industries; financial modelling of service planning/scheduling alternatives, including operating cost forecasting, capital cost estimation, cost/benefit assessment; and fare structure evaluation and development including strategies for coordinated regional fares, equity considerations, ridership and revenue impacts, fare structure simplicity, fare collection technology, and fare compliance strategy
5. **Statistical Analysis: Data Science, Modeling, and Forecasting** - Improved reporting capabilities for bus/rail operator and maintenance staff optimal levels; automatic passenger count data; statistical models based on travel demand, capacity, and other constraints; demand forecasting; and fleet and operator deployment
6. **System Programming Services** - Improved reporting capabilities to provide more information (as opposed to just data) to allow for better decision making and results tracking
7. **Installation of Traffic Control Devices** - General systems services including implementation of approved engineering plans to streets, sidewalks and Metro assets

8. Operations Support - Development of strategies for on street service management to meet key performance objectives

DETERMINATION OF SAFETY IMPACT

The services provided through this contract enables Metro Bus and Rail Lines to be planned, implemented, and maintained in a safe and reliable manner.

FINANCIAL IMPACT

Funding of \$1,230,764 for this action is included in the FY20 budget in cost center 3151 - Service Planning and Scheduling, project 306004 - Service Planning and Enhancement, account 50316 - Professional Services. Each task order awarded will be funded with the source of funds identified for this project.

Since this is a multi-year contract, the cost center manager and Chief Operations Officer will be responsible for budgeting costs in future years.

Impact to Budget

The current source of funding for this action is Propositions A and C, Measure R and M, and Transportation Development Act (TDA). Using these funding sources maximizes the project funding allocations allowed by approved provisions and guidelines.

IMPLEMENTATION OF STRATEGIC PLAN GOALS

Approving the recommendation for the SDSA IDIQ contract aligns with Strategic Goal 1) Provide high quality mobility options that enable people to spend less time traveling; and Strategic Goal 2) Deliver outstanding trip experiences for all users of the transportation system. SDSA IDIQ will provide the staffing and technical capabilities to quickly complete and implement projects in support of these two strategic goals.

ALTERNATIVES CONSIDERED

The Board could choose not to approve the recommendation. This is not recommended as the award of these task orders would then be pursued as separate procurements. This would limit our ability to respond quickly to needs and to meet tight project delivery schedule constraints.

NEXT STEPS

Upon Board approval, staff will execute Contract No. PS64781000 with Cambridge Systematics, Inc. to provide professional and technical services in support of Operations Service Development, Scheduling and Analysis department on an as-needed, task order basis.

ATTACHMENTS

Attachment A - Procurement Summary

Attachment B - DEOD Summary

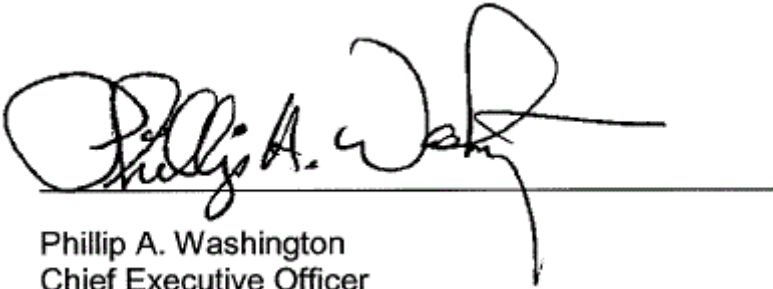
Attachment C - Motion 22.1 NextGen Bus Speed Engineering Working Group

Prepared by: Jeff Neely, Sr. Mgr., Operations Performance Analysis, (213) 922-4032

Conan Cheung, SEO, Service Development, (213) 418-3034

Reviewed by: James T. Gallagher, Chief Operations Officer, (213) 418-3108

Debra Avila, Chief Vendor/Contract Management Officer, (213) 418-3051



Phillip A. Washington
Chief Executive Officer