



Bay Area Infrastructure Financing Authority
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Memorandum

TO: BAIFA

DATE: November 7, 2016

FR: Executive Director

W. I. 6844

RE: Contract – On-Call Transportation Engineering and Planning Services: Alameda I-880 Express Lanes Before and After Evaluation: Kittelson & Associates, Inc. (\$455,000)

This memorandum seeks approval from the Authority for a contract with Kittelson & Associates, Inc. (Kittelson) in an amount not to exceed \$455,000 to provide on-call transportation planning services related to before and after evaluations for the I-880 Express Lanes in Alameda County between Oakland and Milpitas.

Background

BAIFA will deliver the I-880 express lanes by converting the existing I-880 high-occupancy vehicle lanes between Oakland and Milpitas in Alameda County to express lanes. Some express lane elements, such as sign structure foundations and median lighting, are already under construction as part of a Caltrans project to replace the median barrier. The remaining elements will be constructed in a separate contract to be advertised by BAIFA in 2017. Staff estimates that the express lanes will open in 2019.

Staff will collect before and after data to measure the impacts of the I-880 Express Lanes. The initial data collection will commence sometime after the median barrier construction contract is complete and will establish baseline conditions, which will later be compared to data collected after the lanes are open and traffic has stabilized. The data to be collected, including travel time/speed, volumes, and vehicle occupancy, will be used to evaluate various performance measures, such as travel time savings and reliability, vehicle/person throughput, level of service, delay, and duration of congestion. After the express lanes become operational, ongoing performance monitoring will be conducted and reported to various stakeholders (e.g., BAIFA commissioners, general public, media, etc.), as well as to the Federal Highway Administration and the California Transportation Commission to meet statutory requirements.

Selection Process

In February 2016, MTC issued a Request for Qualifications to pre-qualify firms to provide on-call transportation engineering and planning services to support various Service Categories, including:

- a) Freeway Active Traffic Management
- b) Travel Demand Management
- c) Connected Vehicles/Autonomous Vehicles and Advanced Technology
- d) Data Analytics and Performance Assessments
- e) Arterial Operations
- f) General Planning

At its June 10, 2016 meeting, the Operations Committee approved a competitively pre-qualified panel of eleven consultants to provide on-call transportation engineering and planning services in the Data Analytics and Performance Assessments service category on an as-needed basis.

On June 28, 2016 MTC invited all eleven pre-qualified consultants to submit a budget, project schedule, and staffing plan to conduct before and after evaluations for the I-880 Express Lanes. MTC received proposals from five firms: Cambridge Systematics, Inc., DKS Associates, Iteris, Inc., Kittelson, and TJKM Consultants. A panel of MTC staff performed a review of the proposals and evaluated the proposals based on each firm's understanding of the project, previous similar experience, written communication, staff resources and reasonableness of costs.


Based upon this evaluation, staff recommends the selection of Kittelson. Kittelson had the most cost-effective proposal that took into account scope areas that could be performed more efficiently, thereby reducing project costs. In addition, Kittelson has the most relevant freeway before and after study experience, was hired to conduct the before and after evaluations for BAIFA's first express lane (i.e., I-680 in Contra Costa County between Walnut Creek and San Ramon), and has demonstrated ability to handle large-scale data collection and analysis efforts. The table below provides the final rankings based upon staff evaluations:

Consultant	Ranking
Kittelson	1
TJKM Consultants	2
Iteris, Inc.	3
DKS Associates	4
Cambridge Systematics, Inc.	5

Attachment A includes a summary of Kittelson and its project team's small business and disadvantaged business enterprise status.

Recommendation

Staff recommends that the Authority authorize the Executive Director or his designee to negotiate and enter into a contract with Kittelson in an amount not to exceed \$455,000 to provide on-call transportation planning services related to before and after evaluations for the Alameda I-880 express lanes project.



Steve Heminger

SH: wc

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Attachment A
Small and Disadvantaged Business Participation

Firm Name	Role on Project	DBE* Firm			SBE** Firm		
		Yes	If Yes, List #	No	Yes	If Yes, List #	No
Kittelson & Associates, Inc. – Prime Contractor	Project Management and Data Analysis			X			X
Metro Traffic Data - Subcontractor	Data Collection			X			X
Quality Counts - Subcontractor	Data Collection			X			X

*Denotes certification by the California Unified Certification Program (CUCP).

**Denotes certification by the State of California.

REQUEST FOR AUTHORITY APPROVAL

Summary of Proposed Contract

Work Item No.: 6844

Contractor: Kittelson & Associates, Inc., Oakland, CA

Work Project Title: Alameda I-880 Express Lanes Before and After Evaluation

Purpose of Project: Measure performance of Alameda I-880 express lanes after implementation and compare with before conditions; report the express lanes performance to various stakeholders.

Brief Scope of Work: Perform before and after evaluations for the I-880 express lanes project in Alameda County. Work includes collecting and analyzing traffic data and documenting the results.

Project Cost Not to Exceed: \$455,000

Funding Source: BATA Express Lanes Capital Project Budget

Fiscal Impact: Funding is included in the Express Lane Capital Project Budget, as adopted in the FY 2016-17 Toll Bridge Program Operating and Capital Budget (BATA Resolution No. 118, Revised).

Motion by Authority: That the Executive Director or his designee is authorized to negotiate and enter into a contract with Kittelson & Associates, Inc. to provide on-call transportation planning services as described above and in the Executive Director's memorandum dated November 7, 2016, and the Chief Financial Officer is directed to set aside funds in the amount of \$455,000 for such contract.

BAIFA:

Dave Cortese, Chair

Approved: Date: November 16, 2016