



METROPOLITAN
TRANSPORTATION
COMMISSION

Agenda Item 2d
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Memorandum

TO: Operations Committee

DATE: February 5, 2016

FR: Executive Director

W.I.: 1237

RE: Contract Amendment – On-Call Transportation Engineering and Planning Services – Ramp Metering Support: Kimley-Horn and Associates (\$400,000)

This memorandum requests Committee approval of a contract amendment with Kimley-Horn and Associates (Kimley-Horn) in an amount not to exceed \$400,000 to provide On-Call Transportation Engineering and Planning Services related to data collection and ramp metering implementation for a segment of State Route 4 in Contra Costa County. Kimley-Horn is recommended based on statements of qualifications solicited from pre-qualified on-call transportation engineering and planning consultants.

Background

MTC launched the Freeway Performance Initiative (FPI) in 2007 to implement cost-effective freeway/arterial operations strategies, such as freeway ramp metering, to manage congestion and improve safety along congested freeway corridors in the Bay Area. FPI's ramp metering program consists of: 1) a capital project to install ramp metering and Traffic Operations Systems (TOS) equipment, such as changeable message signs, and traffic detection loops; 2) an implementation plan to develop and program the metering rates into the ramp metering equipment; and 3) metering activation immediately upon completion of the capital project.

FPI ramp metering implementation plans are currently underway, or have recently been completed, for several corridors, including Santa Clara US-101, Santa Clara State Route 85, Solano I-80, and Sonoma US-101. The ramp metering capital project for State Route 4 in Contra Costa County (between approximately Alhambra Avenue in Martinez and Sand Creek Road in Brentwood) is nearing construction completion, and, thus, a new ramp metering implementation plan will need to be prepared for this corridor to enable metering activation. Staff anticipates that the plan will be completed by fall 2017.

Consultant Selection Process

In December 2013, MTC issued a Request for Qualifications to pre-qualify firms to provide on-call transportation engineering and planning services to support the FPI, the Regional Express Lane Network, and other similar programs for a three-year period ending June 30, 2016, with the option to extend for two additional one-year periods. At its May 10, 2013 meeting, the Operations Committee approved a competitively pre-qualified panel of seven consultants to provide on-call transportation engineering and planning services in three service categories: (1) Data Collection, (2) Traffic Analysis, and (3) General Planning Support, on an as-needed basis.

On December 17, 2015, MTC staff solicited Statements of Qualifications (SOQs) from the six firms that were pre-qualified under the Traffic Analysis service category. These firms included Cambridge Systematics, Inc., DKS Associates, Fehr & Peers, Kimley-Horn, Kittelson & Associates, Inc., and TJKM Transportation Consultants. MTC received SOQs from three firms: Kimley-Horn, Kittelson & Associates, Inc., and TJKM Transportation Consultants. A panel of MTC staff evaluated the qualifications of each firm.

Based upon the evaluation, staff recommends the selection of Kimley-Horn. This firm is highly qualified to perform the work, with expertise in the development and calibration of freeway models that are necessary for ramp metering projects. The Kimley-Horn team has successfully implemented multiple ramp metering projects in the Bay Area, including State Route 85, US-101, I-280, State Route 87, and I-880 in Santa Clara County, as well as I-580 and State Route 92 in Alameda County. In addition, Kimley-Horn has the appropriate qualified staff who are available to meet the project's schedule. Attachment A includes a summary of Kimley-Horn's and its project team's small business and disadvantaged business enterprise status.

Kimley-Horn will be responsible for collecting, analyzing and documenting existing traffic data, as well as creating and calibrating a traffic simulation model that will be used to develop detailed ramp metering rates. In addition, Kimley-Horn will be responsible for assisting Caltrans with field observations and fine-tuning during initial implementation; performing a "before and after" study; and attending meetings with the local stakeholders. Seeking the services of a consultant to conduct this work is necessary, due to the extensive amount of data collection and field work necessary, both before and after the ramp meters have been activated.

The table below provides the final rankings based upon the results of the panel's evaluations:

Consultant	Ranking
Kimley-Horn	1
Kittelson and Associates, Inc.	2
TJKM Transportation Consultants	3

Recommendation

Staff recommends that the Committee authorize the Executive Director or his designee to negotiate and enter into a contract amendment with Kimley-Horn in an amount not to exceed \$400,000 to provide On-Call Transportation Engineering and Planning Services to prepare a Ramp Metering Implementation Plan for a segment of State Route 4 in Contra Costa County.



Steve Heminger

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Attachment A

Disadvantaged Business Enterprises for Ramp Metering Support: Kimley-Horn and Associates

			DBE* Firm			SBE** Firm		
	Firm Name	Role on Project	Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	Kimley-Horn	Project management & traffic engineering			X			X
Subcontractor	Wiltec, Inc.	Data collection	X	8440		X	8440	
Subcontractor	ATD/NDS	Data collection			X			X

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

**Denotes certification by the State of California.

REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Contract Amendment

Work Item No.: 1237

Consultant: Kimley-Horn and Associates
Oakland, CA

Work Project Title: On-Call Transportation Engineering and Planning Services

Purpose of Project: To provide On-Call Transportation Engineering and Planning Services to implement ramp metering on State Route 4 in Contra Costa County.

Brief Scope of Work: Consultant shall work with MTC, Caltrans, and local jurisdictions to implement a ramp metering plan along a segment of State Route 4 in Contra Costa County (between Alhambra, Avenue in Martinez and Sand Creek Road in Brentwood and assess ramp metering effectiveness.

Project Cost Not to Exceed: \$400,000 (this amendment)
Total Contract before this amendment: \$1,170,000
Total Authorized Contract after this amendment: \$1,570,000

Funding Source: CMAQ

Fiscal Impact: Funds are included in the agency budget for FY 2015-16

Motion by Committee: That the Executive Director or his designee is authorized to negotiate and enter into a contract amendment with Kimley-Horn to provide the consulting services described above and in the Executive Director's memorandum dated February 5, 2016, and the Chief Financial Officer is authorized to set aside funds in the amount of \$400,000 for such contract amendment.

Operations Committee:

Scott Haggerty, Chair

Approved: Date: February 12, 2016