



DATE: November 19, 2019

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Adopt a Resolution Authorizing the City Manager to Execute a Professional Services Agreement with Iteris, Inc. to Procure an Automated Traffic Signal Performance Measures (ATSPM) System in an Amount Not-To-Exceed \$328,250 and Appropriate \$328,250

RECOMMENDATION

That the Council adopts a resolution (Attachment II) authorizing the City Manager to execute a Professional Services Agreement (PSA) with Iteris, Inc., to procure an Automated Traffic Signal Performance Measures (ATSPM) System in an amount not-to-exceed \$328,250, and appropriate \$328,250 (Attachment III) for this project from the Street System Improvements Fund 450 to front costs, of which \$135,100 is reimbursable by the Metropolitan Transportation Commission (MTC) using Federal Highway Administration (FHWA) Surface Transportation Program (STP) funds.

SUMMARY

The City strives to improve arterial operations and enhance safety at signalized intersections throughout the City by deploying an Automated Traffic Signal Performance Measures (ATSPM) System to thirty-four traffic signals on the corridors of Tennyson Road, 2nd Street, Foothill Boulevard, Mission Boulevard, A Street, and Jackson Street. The system purchase includes the system license, warranty, and support for ten (10) years after project implementation. Through the Innovative Deployments to Enhance Arterials (IDEA) Program, the MTC has awarded the City grant funding for the deployment of an ATSPM system. Federal funds available through the IDEA Program are designed to assist agencies with project implementation through capital support and technical assistance.

BACKGROUND

The core goals of this project include: improving travel time and travel reliability along arterials for autos and transit vehicles; improving safety of motorists, transit riders, bicyclists, and pedestrians; and decreasing motor vehicle emissions and fuel consumption. An ATSPM system will provide information and tools needed to actively monitor signal performance and proactively identify and correct deficiencies before they negatively impact arterial operations. Deploying an ATSPM system is a cost-effective way to improve traditional signal retiming processes by providing continuous performance monitoring capability using high-resolution data and real-time performance measures.

DISCUSSION

Staff posted a Request for Proposals (RFP) on the City's website and sent notification emails to twelve consultants known to be at the forefront of critical subject areas, such as bicycle and pedestrian planning, engineering, and research that will be essential to creating a successful plan. The RFP was released on September 3, 2019. Inquiries regarding the RFP were due September 20, 2019, and proposals were due by 5:00 p.m. on September 27, 2019. The City received three proposals. Proposals were received from: CT West, Inc., with Miovision Technologies, Inc., as a sub-vendor (CT West); Econolite Systems Inc., with Western Pacific Signal, LLC as a sub-vendor (Econolite); and Iteris, Inc., (Iteris).

The method and criteria for consultant selection was identified in the RFP. A panel of three members, consisting of the City's Senior Transportation Engineer, a Principal Transportation Engineer from MTC, and the Vice President of the City's on-call traffic consultant Advanced Mobility Group (AMG), independently scored each proposal. The City invited the top two ranked consultants, Econolite and Iteris, to vendor interviews held on October 15, 2019. The interview panel unanimously determined Iteris to be the most suitable vendor to procure the ATSPM System.

The Iteris Signal Performance Measures (Iteris SPM) platform, specifically designed for the cloud, was built to resolve arterial operations and maintenance concerns. The service does not discriminate between controller or detection manufacturers, giving agencies flexibility for hardware choices and presents metrics in formats that are intuitive to Traffic Engineers, enabling them to make proactive operations and maintenance decisions.

Iteris proposed Matt Wages, PE, as Project Manager (PM) for this project. Mr. Wages is familiar with the City's traffic signals and transportation network, as well as how the Iteris SPM solution can be applied to best support City staff. He will be the principal contact for the City and other stakeholders as necessary. Mr. Wages will oversee the work from project inception through completion and will also be responsible for coordinating staff activities and meetings.

SUSTAINABILITY FEATURES

By applying best practices, the plan will increase transportation options, reduce environmental impacts of the transportation system, and enhance the overall quality of life for residents. Overall, the goal of the project is to develop convenient transportation alternatives to motor vehicles for residents, visitors, shoppers and commuters. The resulting reduction in single occupancy vehicles will reduce vehicle miles of travel and greenhouse gases.

ECONOMIC IMPACT

Improvement of safety and efficiency of the City's traffic signal system foster economic health by creating dynamic, complete communities with a high quality of life that helps support small business development, decreases transportation and healthcare costs, and increases property

values, employment, and tourism. Providing alternate modes of travel reduces single occupancy vehicles, congestion, and costs related to automobile-oriented infrastructure maintenance and construction. It also makes the overall transportation system more efficient.

FISCAL IMPACT

The adopted FY 2020 Capital Improvement Program’s Streets System Improvements (Fund 450) includes \$300,000 for this project. The City will use an amount not-to-exceed \$328,250 to pay Iteris, Inc., directly for its services, of which \$135,100 is reimbursable by MTC for actual costs incurred during the first three years (FY 2020 to FY 2022) in accordance with the Funding Agreement for Innovative Deployments to Enhance Arterials (IDEA) Category I Project, per Resolution No. 18-124. The reimbursed funds of \$135,100 will be deposited back into this fund.

Bid Item	Price	Funding Source
Infrastructure and Deployment	\$40,300	MTC
License, Warranty, Support (Years 1 - 3)	\$94,800	MTC
License, Warranty, Support (Years 4 - 10)	\$193,150	Fund 450
Total Not-to-Exceed Amount	\$328,250	

STRATEGIC INITIATIVES

This agenda item supports the Complete Streets Strategic Initiative. The purpose of the Complete Streets initiative is to build streets that provide safe, comfortable, and convenient travel for everyone, regardless of age or ability, including motorists, pedestrians, bicyclists, and public transportation riders. This item supports the following goals and objectives:

- Goal 1: Prioritize Safety for all Modes of Travel
 - Objective 1: Reduce speeding and aggressive driving behavior through four E’s (i.e., Education, Enforcement, Empowerment, and Engineering)

- Goal 2: Balance the diverse needs of users of the public right-of-way
 - Objective 1: Increase walking, biking, transit usage, carpooling, and other sustainable modes of transportation by designing and retrofitting streets to accommodate all modes

PUBLIC CONTACT

There is no public contact needed for the procurement of the ATSPM System.

NEXT STEPS

Data Collection	December 2019
ATSPM Configuration	February 2020
ATSPM Deployment	April 2020

Prepared by: Charmine Solla, Senior Transportation Engineer

Recommended by: Alex Ameri, Director of Public Works

Approved by:

A handwritten signature in black ink, appearing to read 'K. McAdoo', written in a cursive style.

Kelly McAdoo, City Manager