

STAFF REPORT

City of Lancaster

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Date: December 13, 2016

To: Mayor Parris and City Council Members

From: Jeff Hogan, Development Services Director

Subject: **Professional Services Agreement – Design Services for Public Works Construction Project No. 16-001; Traffic Signal System Modernization and North County ITS Expansion Projects**

Recommendation:

Approve Task Order No. 1 in accordance with the 2016-2018 Multi-Year Professional Services Agreement with Advantec Consulting Engineers, Inc., of Palmdale, California, in the amount of \$331,120.00, for design services for Public Works Construction Project No. 16-001; Traffic Signal System Modernization and North County ITS Expansion Projects. Authorize the City Manager, or his designee, to sign all documents. The consultant selection process was made in accordance with Government Codes 4526 and 53060.

Fiscal Impact:

\$331,120.00; sufficient funds are available in Capital Improvements Budget Account Nos. 217-16TS028, 217-11TS001, 321-11TS001, and 217-16TS026.

Background:

The Traffic Signal System Modernization project will replace twenty-eight (28) miles of copper cable with fiber optic cable in the existing conduits, install new Ethernet switches in existing controller cabinets at one hundred forty-seven (147) signalized intersections, update existing fiber backbone equipment, install equipment to view images remotely through existing video detection at fifty-four (54) signalized intersections, and install wireless communication in eighteen (18) remote signalized intersections. The project boundaries are from Avenue H to Avenue N and 70th Street West to 30th Street East. The project will reduce travel times and increase level of service by providing real-time data allowing for reduced cycle lengths at signalized intersections.

At its September 22, 2011, meeting, the Los Angeles County Metropolitan Transportation Authority (LACMTA) approved the project list and funding allocation for Traffic Signal System Modernization. The proposed Proposition C Funding Agreement is for design, project development, right-of-way, and construction of Traffic Signal System Modernization. The total funds designated for this project are \$2,018,784.00. Project Funds are programmed over Fiscal Year 2015-2016 and Fiscal Year 2016-2017. The matching fund requirement for the City is 50% of project expenditures and is available in Traffic Signal Impact Fees.

The North County ITS Expansion project will upgrade the Lancaster Central Traffic Control Management and provide for a connection to the LA County Information Exchange Network (IEN). The upgrades will include: installation of new traffic signal controllers, and installation of new, upgraded communications equipment. Updating older hardware and software allows more efficient systems that rely on improved intelligent transportation systems technologies and communications. The latest traffic signal controllers offer greater flexibility in traffic signal timing. Newer control equipment also features an improved interface with area-wide signal control systems.

The project is funded under the 2007 Metro Call for Projects. Lancaster and Palmdale were jointly awarded the respective grant funding which includes Lancaster's proposed ITS expansion scope of work. The overall project cost for the Lancaster improvements is \$1,410,821.00. Under terms of the MOU, the Los Angeles County Transportation Authority (LACMTA) will contribute up to \$1,128,656.80, representing 80% of the project costs within Lancaster, and Lancaster will contribute up to \$282,164.20, representing the committed 20% local participation and is available in Traffic Signal Impact Fees.

Design responsibilities completed under this task order are being conducted using the 2016-2018 Multi-Year Professional Services Agreement; include mapping and surveying, and preparation of plans, specifications and estimates (P&E) for construction.

AP:lcs

Attachment

Task Order No.1