



CITY OF KIRKLAND
Department of Public Works
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MEMORANDUM

To: Kurt Triplett, City Manager

From: Patrick Herbig, P.E., Project Engineer
David Snider, P.E., Capital Projects Manager
Kathy Brown, Public Works Director

Date: November 6, 2014

Subject: KIRKLAND ITS IMPLEMENTATION PHASE IB PROJECT
AWARD CONTRACT

RECOMMENDATION:

It is recommended that the City Council awards the construction contract for the Kirkland Intelligent Transportation System (ITS) Implementation Phase IB Project to Prime Electric, Inc., Bellevue, WA, in the amount of \$391,075.74.

BACKGROUND DISCUSSION:

The ITS Phase I Project will upgrade traffic signal equipment, interconnect traffic signals, and add data collection and field monitoring equipment at various locations throughout the City. The ITS Phase I Project is comprised of two sub-projects: Phase IA and Phase IB. The City completed the Phase IA Project earlier this year with the construction of the new Traffic Management Center (TMC) inside City Hall. The Phase IB Project installs new field equipment and achieves direct communication and control between the new Phase IB field devices and the TMC. Specific equipment elements for Phase IB include new signal cabinet assemblies, signal controllers with accessible pedestrian signals (APS), central control hardware and software, and closed circuit television (CCTV) cameras for traffic monitoring, video detection, and fiber optic communications.

The Phase IB Project provides for the installation of the new signal equipment along two major City (and regional) arterial corridors leading to and from downtown Kirkland (See Attachment A):

1. Lake Washington Blvd/Market Street/98-100th Ave NE Corridor
2. Central Way/NE 85th Street Corridor

The overall ITS Phase I Project had an original budget of \$2,081,000 comprised of grant and City Funding of \$1,800,000 from a federal Congestion and Mitigation of Air Quality (CMAQ) grant, and \$281,000 in City funding. The Phase IA Project (the TMC) was completed at a total cost of \$322,600, including all construction and equipment costs, with \$274,000 coming from CMAQ and \$48,600 in City funds being expended.

At the September 16, 2014, City Council meeting staff sought Council approval to increase the Project funding and authorization to advertise for contractor bids. Based on the

engineer's estimate, at that time, the complete Phase IA and Phase IB Project cost was then projected to be \$2,171,000, which exceeded the original project funding by \$90,000. At the same September 16 meeting, City Council approved a funding increase using REET 2 Reserves, bringing the new total of City participation to \$371,000 and a total Project budget of \$2,171,000 (Attachment B).

Staff first advertised for Phase IB contractor bids on October 8, 2014. On October 29, five bids were received, with Prime Electric, Inc. being the lowest responsive and responsible bidder, as follows:

Contractor	Total Bid
Prime Electric, Inc.	\$ 391,075.74
VECA Electric	\$ 491,400.60
West Coast Signal	\$ 494,733.17
<i>Engineer's Estimate</i>	<i>\$ 525,875.00</i>
Transportation Systems	\$ 541,453.40
Totem Electric	\$ 557,275.85

With the low bid price received being considerably less than the engineer's estimate, a recalculation of the total Project budget, including grant eligible reimbursements, ineligible expenses for engineering and other soft costs result in a proportionate reduction in grant funding. Since the overall grant ineligible expenses generally remain constant, staff recommends maintaining the City Council's previously approved City funding of \$371,000. Throughout the construction process staff will work closely with the grant administrator to preserve the maximum amount of all grant eligible expenses; a final accounting of all costs will be performed at the conclusion of the Project and any City funds remaining will be returned to the funding source.

With a City Council award of the construction contract at the November 18 meeting, construction will begin in January, 2015, with an anticipated substantial completion in spring following an 80 working day schedule. In advance of the construction, staff will renew public outreach efforts by distributing regular Project updates through various means, including regular Project website information on contractor work zones and construction schedules and progress.

Attachment A: Vicinity Map
Attachment B: Project Budget Report

**Kirkland ITS Implementation,
Phase IB - Installation of Signal Equipment (CTR-0111-000)
Project Budget Report**

Attachment B

