



CITY OF KIRKLAND

Department of Public Works

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MEMORANDUM

To: Kurt Triplett, City Manager

From: David Snider, P.E., Capital Projects Manager
Pam Bissonnette, Interim Public Works Director

Date: March 20, 2014

Subject: Kirkland ITS Implementation Phase IA - Traffic Management Center
Accept Work

RECOMMENDATION:

It is recommended that City Council accepts the work for the Kirkland Intelligent Transportation Systems (ITS) Implementation Phase IA – Traffic Management Center (TMC), as constructed by Bayley Construction, Mercer Island, WA, and establishes the statutory lien period.

BACKGROUND DISCUSSION:

Kirkland's ITS Phase I Project was planned to be constructed with two separate construction contracts; Phase IA (this memo) converted the Everest Conference Room in City Hall into a new TMC and represents the "facility" improvement element of the overall Project. The Phase IB component will provide for the installation of signal equipment in the field and is scheduled to be advertised for contractor bids in spring, 2014.

The work for the Phase IA contract completed the TMC for providing remote traffic monitoring and management capabilities. It has a workstation console for the TMC Operator to manage the traffic and video management systems from desktop computers together with a video-wall display. The video-wall display consists of four 42" LED wall monitors for real-time traffic monitoring. There is also a meeting area with table and chairs in front of the video-wall display, and a white board for small group meetings and discussions. A test bench, with traffic signal controllers and a fully equipped



TMC
(Formerly the Everest Conference Room)

traffic signal cabinet, has also been set up to allow the TMC Operator to test signal timing and phasing in the TMC prior to implementation in the field.

In addition to allowing the interface between the ITS field devices (the Phase IB Project), the new TMC allows for real-time remote control and adjustment of the traffic signals, including maintenance monitoring. This additional capability provides for real-time video streaming from the Closed Circuit Television (CCTV) cameras. The frequently updated still images from the CCTV cameras will eventually be used to provide current traffic conditions for general public viewing through the City's website.

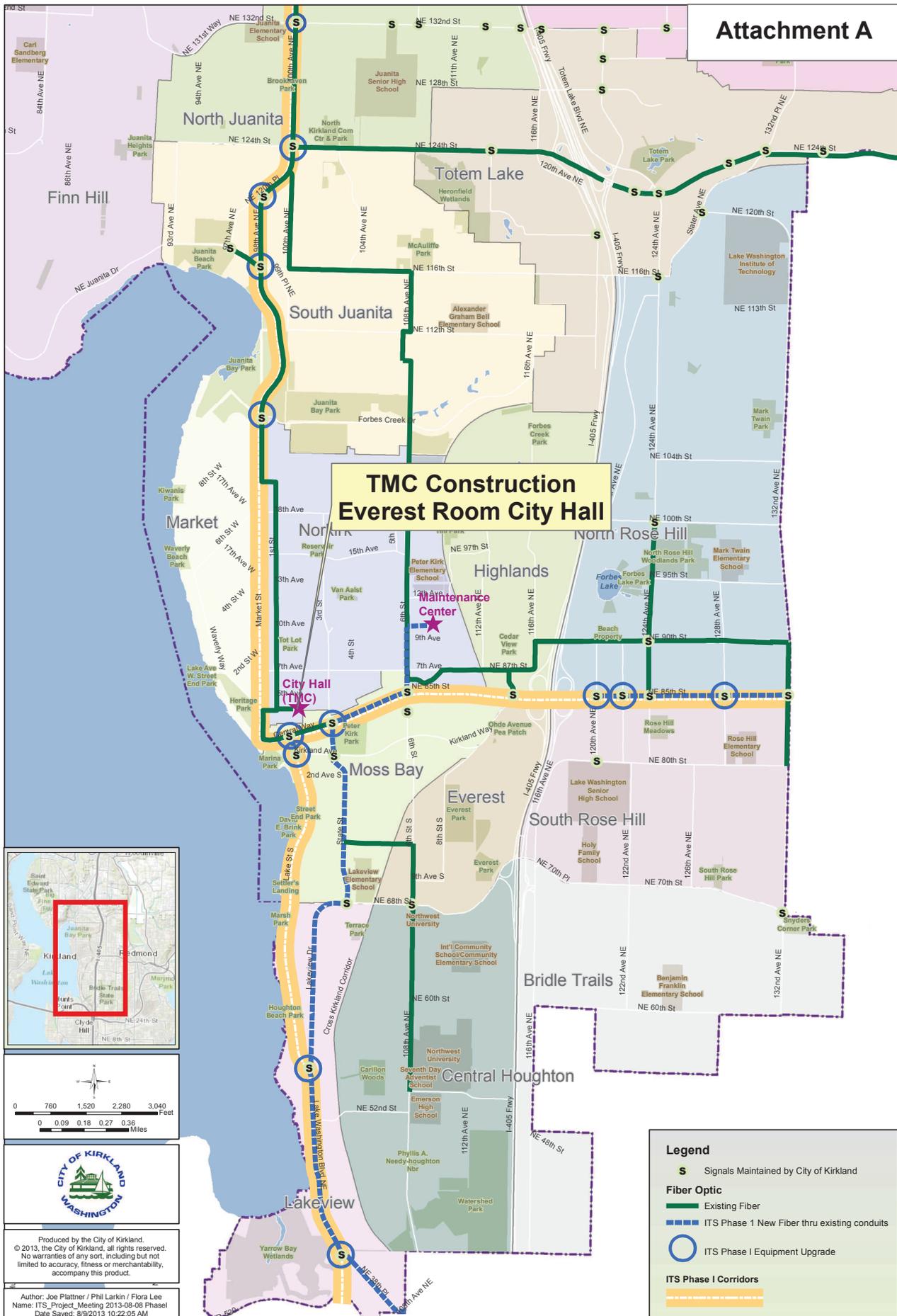
The total cost for Phase IA was estimated to be \$250,000 (Attachment B), with funding available through a combination of a federal Congestion and Mitigation of Air Quality (CMAQ) grant and City funds, as part of the overall Kirkland ITS Implementation Phase I Project (Phase IA – TMC and Phase IB – Field Equipment). At the meeting on September 3, 2013, Council awarded the contract for the TMC construction work to Bayley Construction in the amount of \$104,025. After contract award, the contractor ordered the custom furniture for the TMC prior to the physical construction, which began on October 21, 2013; the room remodeling was completed on November 21, 2013 and the contractor returned to complete minor work efforts after receiving all final material parts from the manufacturer in January, 2014.

The total of all payments made to the contractor was \$104,025 with one no-cost change order issued (Attachment B). The total of all Phase IA Project expenses came to \$172,800 with over \$77,000 of the original \$250,000 budget remaining available for use on the future Phase IB work.

The TMC will be fully operational when the Phase IB work is complete. The future Phase IB portion of the Project represents the field related improvements along two arterial corridors; the Lake Washington Blvd/Market St/ 98th/100th Ave NE Corridor, from State Route 520/Northup Way to NE 132nd Street, and the Central Way/NE 85th Street Corridor, from Market St to 132nd Ave NE. The second Phase will install traffic signal controllers, cabinets and switches, CCTV traffic monitoring cameras and video detection. The Phase IB project will enable the TMC to communicate with ITS field equipment through the City's fiber optic network.

Attachment A: Vicinity Map

Attachment B: Project Budget Report



Kirkland ITS Implementation, Phase IA - Traffic Management Center (TMC)

Vicinity Map

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Kirkland ITS Implementation, Phase IA - Traffic Management Center (CTR-0111) Project Budget Report

Attachment B

