



CITY OF KIRKLAND
Department of Public Works
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MEMORANDUM

To: David Ramsay, City Manager

From: Daryl Grigsby, Public Works Director
Ray Steiger, P.E., Capital Projects Manager

Date: October 7, 2009

Subject: WATER SUPPLY STATION NO. 2 IMPROVEMENTS – ACCEPT CONSTRUCTION

RECOMMENDATION:

It is recommended that City Council accept the construction of the Water Supply Station No. 2 Improvements as completed by Award Construction, Inc. (ACI) of Ferndale, Washington, and establish the 45-day statutory lien period.

BACKGROUND DISCUSSION:

The City's Water Supply Station No. 2 is a water system facility that is located on the southeast corner of 132nd Avenue NE and NE 85th Street, just within the Redmond city limits (Attachment A). The facility provides water from Seattle's transmission main to the 650 and 545 pressure zones, and it is jointly owned by Kirkland and Redmond; pressure zones are each identified by the delivery pressure of the water to the customer within the zones. Kirkland has the overall responsibility for operation and upkeep of the facility; however, Redmond participates in the improvements through design review and cost sharing.

The plan to upgrade this station was originally identified in the Water Comprehensive Plan, and a corresponding project was funded in the 2004-2009 CIP. Improvements to this below ground facility consisted of replacing the existing manual control valves with hydraulic control valves in order to allow the station to operate in more efficient control modes, adding new energy efficient lighting and improved heating and ventilation for maintenance worker safety and convenience.

In 2008, during the project's design phase and after consultation with the City of Redmond, telemetry upgrades were added to the overall scope of work in order to coincide with a City-wide upgrade of telemetry being done at other water facilities. The telemetry system allows remote monitoring and control of the facilities by the City's maintenance personnel and the added telemetry communications panel is consistent with the City's current telemetry standards.

For these supply station improvements, and in order to have more control on the quality of the telemetry integration services, the telemetry system installation was performed by a separate vendor whose services were secured utilizing a Professional Services Agreement. The final amount of the telemetry improvements came to \$45,439.25 (Attachment B).

At the Council meeting of March 17th, 2009, City Council awarded the construction contract to Award Construction, Inc. (ACI) in the amount of \$111,893.95, which included the base bid plus two additive alternates. At this same meeting Council also authorized the use of an additional \$54,000 from the Water/Sewer Capital Contingency Fund to account for the addition of the new telemetry system to the project. The addition of those funds increased the total project budget to \$269,000 (Attachment B).



During construction a few changes occurred resulting in three change orders; the total amount paid to ACI came to \$117,380.20. These change orders included an adjustment for an increase in Washington State sales tax and some electrical and mechanical changes requested by the Water Division to aid in future maintenance operations. As such, the money for the O & M requested changes will be used to help pay for these changes. A breakdown of the project cost increases is as follows:

Increases to ACI's Contract (\$5,490):	
• Sales tax rate change April 1, 2009	\$515
• Installation of an additional pressure transducer	\$2,600
• Switch plumbing of valves for easier maintenance	\$795
• Wiring upgrades and dehumidifier receptacle	\$1,225
• Replace & upsize circuit breaker	\$355
Increases to Telemetry PSA (\$8,700):	
• Addition of Limit Switch	\$3,010
• Sales tax oversight plus sales tax rate change	\$5,690
Total increases:	\$14,190
Less project contingency:	(\$8,190)
TOTAL PROJECT COST INCREASE:	\$6,000
Less Redmond's Portion (34%)	(\$2,040)
Transfer from Water Division Operating Fund	(\$3,960)
Additional Funds Needed	\$0

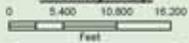
As shown in the table above, with the added telemetry improvements and the other changes, the total project costs increased by \$6,000 (from \$269,000 to \$275,000). Under the terms of the Joint Facility Agreement with Redmond, Kirkland's share is \$181,500 and Redmond's contribution is \$93,500 (Attachment B). Using the project contingency and deducting Redmond's contribution, the estimated additional funds needed from the Water Division's Joint Services Pump Maintenance Account is \$3,960. This amount will be transferred to the CIP Project budget to close out the project.

Attachments: (2)

City of Kirkland City of Redmond

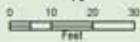


Vicinity Map

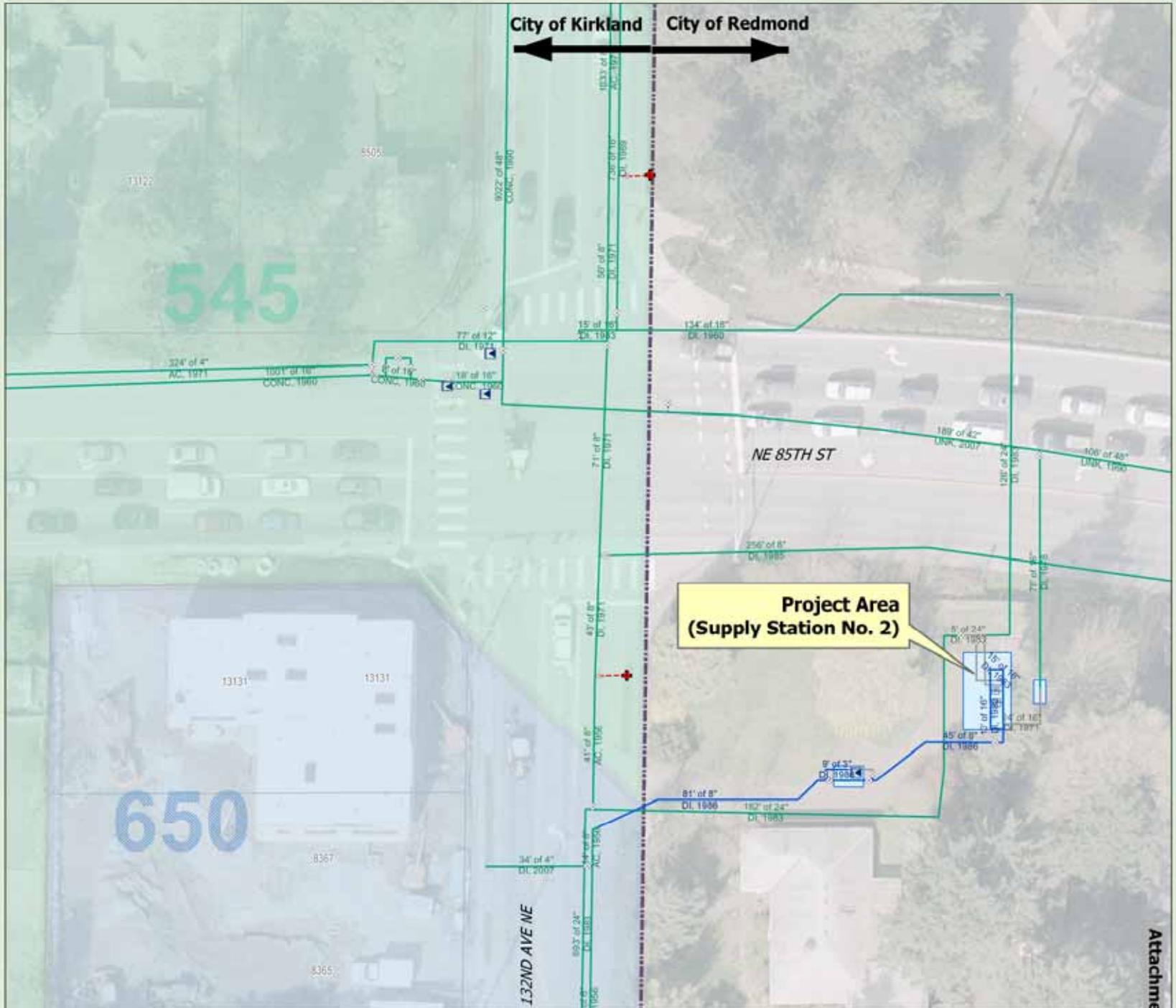


Map Legend

- Vault
- Hydrants
- Water Valves**
 - Valve
 - Hydrant Valve
 - Pressure Relief Valve
 - Zone Valve
- Water Appurtenances**
 - Air Valve
 - Blowoff
 - Pump
- Water Mains**
 - 545 PC Main
 - 650 PC Main
 - Unknown
- Water Laterals**
 - Hydrant Lateral
 - Other Lateral
- Service Boundary
- Water Poly
- Water Pressure Zones**
 - 545 Pressure Zone
 - 650 Pressure Zone
- Street Addresses
- City Limits
- Tax Parcels



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Project Area (Supply Station No. 2)

Attachment A - Supply Station No. 2 Site Map

Attachment A

SUPPLY STATION NO. 2 IMPROVEMENTS (CWA-0065)

PROJECT BUDGET REPORT

