



CITY OF KIRKLAND
Department of Public Works
123 Fifth Avenue, Kirkland, WA 98033 425.587.3800
www.kirklandwa.gov

MEMORANDUM

To: Kurt Triplett, City Manager

From: David Snider, P.E., Interim Capital Projects Manager
Ray Steiger, P.E., Public Works Director

Date: November 30, 2011

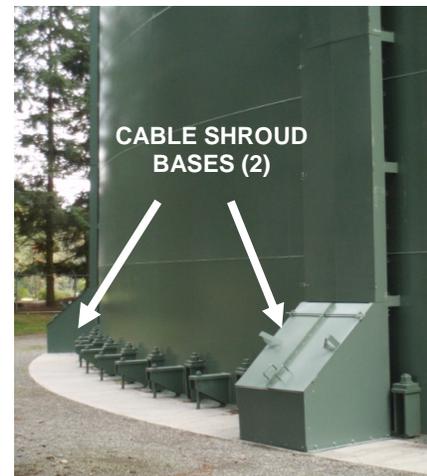
Subject: NORTH RESERVOIR REHABILITATION / REPAINTING PROJECT
CABLE SHROUD INSTALLATION -- ACCEPT WORK

RECOMMENDATION:

It is recommended that City Council accept the work on the North Reservoir Rehabilitation/Repainting Project, Cable Shroud Installation work, as completed by Wren Construction, Inc., Everett, WA, and establish the statutory lien period.

BACKGROUND DISCUSSION:

The North Rose Hill Reservoir (tank) is a major water system facility located in Mark Twain Park (Attachment A) that is jointly owned by the Cities of Kirkland (66%) and Redmond (34%). The 14 million gallon tank received a major overhaul in 2010 that included seismic upgrades, the installation of new roof access and fall protection safety railings for maintenance personnel, the installation of rain gutters, the recoating of the interior tank surface, the repainting of the exterior surface, including the replacement of the existing tree mural, and improvements to the telecommunications infrastructure for the cell vendors who lease space on the tank for antennas and other equipment. The total budget for all tank improvements is \$3,399,000.



At their regular meeting of July 7, 2009, Council awarded the contract for the major rehabilitation work to Ebenal General, Bellingham, WA, in the amount of \$2,465,666.25; work began on September 8, 2009 and was completed on October 22, 2010. On January 4, 2011, City Council accepted that work with \$2,432,492.03 being paid to Ebenal General.



On September 21, 2010, City Council approved additional work for the North Reservoir that included the purchase and installation of new cable shrouds to shield and protect the numerous cables belonging to the four telecommunications vendors who lease space on the tank. Since these new shrouds are permanently connected to the side of the reservoir, the City owns, maintains and accounts for them, as appropriate, on leases with the various telecommunications vendors.

At the time of the acceptance of the larger rehabilitation and repainting Project it was estimated that the total amount to complete the cable shroud work would be near \$92,000. The total amount paid to Wren Construction, Inc, to fabricate and install both shrouds, was \$81,460.98 (Attachment A).

The last remaining element of work to be completed before total close-out for the North Reservoir Rehabilitation/Repainting Project includes sending a team of scuba divers into the full reservoir to inspect the epoxy-based coating material that was applied to the tank's interior surface nearly 1.5 years ago. The diver inspection work is expected to take two days and will add another \$5,000 to the Project costs. As shown on Attachment B, the total of all Project costs, including the major seismic and rehabilitation work, the recoating and repainting efforts, the installation of the cable shrouds, all engineering and contract administration work, and the final diver inspection will result in significant funds remaining to be returned to the Utility. The final Project accounting will include Kirkland's 66% and Redmond's 34% share for all Project costs.



**TELECOMMUNICATION CABLES
INSIDE SHROUDS**

Attachments: (2)

Vicinity Aerial
North Reservoir Rehabilitation / Repainting
CWA 0094



City of Kirkland
Public Works

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NORTH RESERVOIR CABLE SHROUD INSTALLATION (CWA 0094)

Attachment B

Project Budget Report

