



CITY OF KIRKLAND

Department of Public Works

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www.ci.kirkland.wa.us

MEMORANDUM

To: David Ramsay, City Manager

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

Date: June 25, 2009

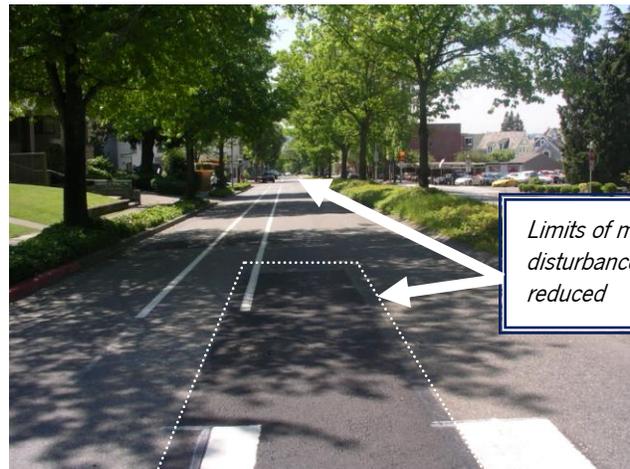
Subject: MARKET STREET SANITARY SEWER MAIN AND STORM SEWER REPLACEMENT-
ACCEPT WORK

RECOMMENDATION:

It is recommended that the City Council accept the Market Street Sanitary Sewer Main and Large Diameter Storm Sewer Replacement Project (Market Street Improvements) as constructed by Buno Construction, LLC., Snohomish, Washington, and establish the required 45-day lien period.

BACKGROUND DISCUSSION:

The Market Street Improvements consisted of replacing pre-1950 concrete sanitary sewer main between 4th Avenue and 15th Avenue, as well as making repair to eight separate sections of large diameter storm drain pipe (Attachment A). Specific work included replacing 3,400-lineal feet of sanitary sewer pipe for increased capacity, doing away with structural deficiencies and removing root intrusion all to reduce annual maintenance needs. Sewer main construction was completed using a pipe bursting technology which shortened construction time, maintained maximum access to properties, minimized disturbance to roadway surface and reduced materials needed for restoration; all of which resulted in construction cost savings.



shortens construction time. and reduces costs.

Repairs to the large diameter (24-inch and 36-inch) storm pipe were eliminated from the project and reprioritized for completion with a future project due to the increase of repairs needed. The uncovering of the storm system revealed additional pipe joint displacement, manhole damage, and significant leaking that could not be detected from the original TV inspection. Staff worked with the contractor to develop a number of proposed solutions, however, the most feasible alternative would have added an estimated two months construction time, required long term watermain shut downs due to utility conflicts, and increased the construction cost an estimated \$485,000; this alternative was not acceptable. Staff is currently pursuing other alternative repairs methods such as slip lining or cured-in-place-pipe methods; either of which would provide for a more complete structural repair and less public impact.

At their meeting of July 15, 2008, Council awarded the construction contract to Buno Construction in the amount of \$866,288.40. The project was physically complete on June 18, 2009, with total payments to the contractor being \$737,984. Total expenses to construct the Project are \$963,177 which is significantly below the available budget of \$1,858,600 (Attachment B). Remaining funds will be returned to appropriate funding sources which includes the water/sewer and surface water utility funds.

Attachments: (2)

Match line bottom right

10th Ave

Sanitary Sewer Replacement Area

15th Ave

Market St

7th Ave

Storm System Repair Areas (8 TYP)
Reprioritized to future project

12th Ave

Market St

City Hall Annex

Heritage Park

4th Ave

Match line top left

10th Ave



MARKET STREET SANITARY SEWER MAIN AND STORM SEWER REPLACEMENT PROJECT BUDGET REPORT

- ENGINEERING
- CONSTRUCTION
- CONTINGENCY

