



Request for City Council Committee Action From the Department of Public Works

Date: December 2, 2003
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral to: Honorable Barbara Johnson, Chair Ways & Means/Budget Committee
Subject: **Pump Station No. 5 and Alternate Reservoir Connection**

Recommendation:

1. Authorize execution of amendment #1 to contract with Short Elliott Hendrickson, Inc. increasing the engineering services contract by \$158,538 for changes to the scope of design and length of construction phase services (City agreement number C-16076). Funds are available within the project budget (Water 7400/ 690/ 6997/ 690MC173).

Previous Directives:

- On October 27, 2000, the City Council authorized the development of the original professional services agreement with the team of Short, Elliott, Hendrickson, Inc. to design and supervise the construction of this project, for a fee of \$300,000.
- On June 22, 2001, the City Council accepted Shank Constructors, Inc. bid for this project (O.P. #5639) for a total sum of \$2,794,800.00, and authorized the development of the original agreement for the construction project.
- On December 30, 2002, the City Council authorized an amendment to the contract with Shank Constructors, Inc., increasing the contract price by \$178,417 and extending the project time period until completion.

Prepared by: Adam J. Kramer, Water Services, ext. 2418

Approved by

Klara A. Fabry, P.E., Director of Public Works

Presenters: Adam J. Kramer, P.E., Asst. Public Works Director, Water Services Director

Financial Impact (Check those that apply)

No financial impact - or - Action is within current department budget.
(If checked, go directly to Background/Supporting Information)

Action requires an appropriation increase to the Capital Budget

Action requires an appropriation increase to the Operating Budget

Action provides increased revenue for appropriation increase

Action requires use of contingency or reserves

Other financial impact (Explain):

Request provided to the Budget Office when provided to the Committee Coordinator

Background/Supporting Information:

Pump Station No. 5 was originally constructed at the Water Works Fridley site in 1925. The "low side" of the Pump Station pumps raw water from the Mississippi River into the Softening Plant at the Fridley site. The "high side" of the station pumps finished (treated) water to the customers in the City through the Water Distribution System (watermains). The "Discharge Header" is the large pipe in the "high side" that collects all of the water from the high service pumps, and sends the water underground to the city. All parts of the Pump Station have been maintained on a regular basis, but the 75+ year old Discharge Header needed replacement with new materials.

A second part of this major project was to complete a second connection between the Fridley Clear Water Reservoirs and Pump Station No. 5. A 7-foot diameter pipe was mostly installed in 1999 and 2000, but the ends of the 2000-foot long pipe needed to be connected to both facilities as a part of this project.

Current Request:

During the project design, several items and ideas arose that warranted changes to the project scope. All items gave benefit to the project and to the City. During construction, some operational issues caused a delay of one major part of the project. Various other issues caused the construction to span a longer period of time than originally anticipated.

Design scope changes included: access hatches improve operator access to critical systems, additional pipe replacements, security hatches, more complete control of main valves, additional of a water hammer control system, and several smaller items. Design phase portion of the fee adjustment is \$54,970, and is a part of the total listed above.

Construction phase changes included several items that were not visible while the Water Works was in operation. Construction phase portion of the fee adjustment is \$103,568, and is a part of the total listed above.

Total engineering fee, with requested adjustment is \$458,538. This is about 15% of the project construction cost.

C: David Ybarra, Purchasing Division