

**COUNCIL ACTION FORM**

**SUBJECT: ENGINEERING SERVICES FOR THE WATER POLLUTION CONTROL FACILITY DIGESTER PUMPS, PIPING, AND VALVES REPLACEMENT PROJECT**

**BACKGROUND:**

On May 9, 2017 the City Council awarded a contract for engineering services to Strand Associates, Inc. of Madison, Wisconsin for design of the Water Pollution Control Facility (WPCF) Pump, Piping, and Valve Replacement Project in an amount not to exceed \$127,700. During preliminary design, Strand reviewed the applicable building code requirements related to the digester complex along with standards set by the National Fire Protection Association (NFPA) for wastewater treatment plants (NFPA Standard 820). The overall goal of these standards is to improve workplace safety by providing protection against fire and explosive hazards.

The Digester Complex was originally designed and constructed in accordance with the building codes that were in place at the time. Based on Strand's review, however, the complex does not comply with current NFPA and National Electric Code (NEC) requirements. Strand recommended the City upgrade the electrical system to meet the current code as a part of the Pump, Piping, and Valve Replacement Project. The engineering services related to these improvements resulted in Change Order Number 1 for an increase of \$171,000. The City Council approved Change Order Number 1 on December 19, 2017.

The original contract (including Change Order #1) with Strand included solely design phase services with the intent to revisit the need for bidding and construction services after design had been completed. The design phase of the project is nearing completion and staff is now preparing for the construction phase. At the City's request, Strand has prepared a second amendment to the original engineering services agreement. This revised scope now includes bidding and construction administration services (\$144,800) and construction observation services (\$72,000), for a total additional amount not to exceed \$217,000. The additional work will be billed on an "hourly, not to exceed" basis to provide staff the flexibility of utilizing the necessary resources to ensure the project is built according to the design.

A summary of the engineering services agreement with Strand is shown below.

Original Contract Amount	\$ 127,700
Change Order Number 1	171,000
<u>Change Order Number 2 (this proposed action)</u>	<u>217,000</u>
Total Contract Amount	515,700

This project is a consolidation of a number of smaller projects identified in the Capital Improvements Plan over a period of several years. A summary of the authorized project budget is show below.

FY 17/18 CIP + Prior Year Carryover	\$ 1,795,818
Pump Room Pipes & Valves	
Primary Pumps	
Secondary Pumps	
Digester Lid Painting	
FY 17/18 Expenses	- 148,319
FY 18/19 Adopted CIP	2,600,000
Gas Piping & Safety Equipment	
Repaint Pump Room	
NFPA Code Upgrades	
<hr/> Total Available Budget	<hr/> \$ 4,247,499

The final design work is still under way, and engineer’s estimate of probable construction costs is still being developed. Pending final permitting, City staff plan to bring a notice to bidders to the City Council in the next month.

**ALTERNATIVES:**

1. Authorize Change Order Number 2 for additional engineering services to Strand Associates, Inc. of Madison, Wisconsin for the WPCF Pump, Piping, and Valve Replacement Project in an additional amount not to exceed \$217,000.
2. Do not authorize the change order to the contract at this time.

**MANAGER’S RECOMMENDED ACTION:**

Staff has determined that it is in the best interest of the City to move forward with this addition to the contract. The scope of this project involves many engineering specialties that will require professional services in addition to staff review and inspection. The working relationship with Strand has been excellent to date for the project and staff expects it to continue into the future. It is staff’s opinion that the dollar amount proposed by Strand for the additional services appears to be reasonable for the scope of work.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative 1 as described above.