

COUNCIL ACTION FORM

SUBJECT: NOTICE TO BIDDERS FOR THE WATER POLLUTION CONTROL FACILITY DIGESTER PUMPS, PIPING, AND VALVES REPLACEMENT PROJECT, PHASE II

BACKGROUND:

A comprehensive evaluation of the mechanical condition of the Water Pollution Control Facility was performed in 2012. The end product of that evaluation was a prioritized schedule for the repair or replacement of key mechanical equipment. Based on that prioritized plan, funds were designated in the Capital Improvements Plan to address mechanical systems in the Digester Complex. 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.

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. The FY 18/19 CIP provided additional funding to allow the NFPA standard deficiencies to be corrected as a part of the mechanical improvements project.**

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	
Total Available Budget	\$ 4,247,499

The final design is now complete and staff is ready to issue a notice to bidders. The current project cost estimate, including the updated engineer's estimate of probable construction costs, is shown below.

Engineering	\$ 515,700
Construction Cost Estimate	\$ 2,955,000
Contingency (25% of Construction Estimate)	\$ 739,000
Total Project Budget	\$ 4,209,700

ALTERNATIVES:

1. Grant preliminary approval of the plans and specifications and issue a notice to bidders, setting September 26, 2018 as the bid due date and October 9, 2018 as the date of public hearing.
2. Do not issue a notice to bidders at this time.

MANAGER'S RECOMMENDED ACTION:

Equipment (piping, valves, and pumps), coatings, and fire protection safety features associated with the digester complex have reached the end of their useful life. To ensure that the WPCF remains operational and continues to stay in compliance, these upgrades are necessary. Staff has reviewed the design of this project and obtained a construction permit from the IDNR to perform the work. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative 1 as described above.