Requested Council Meeting Date: November 7, 2016
Council Bills No. 2016-152
Item: Contract for Purchase and Installation of SCADA System

Originating Department: PUBLIC WORKS –OPERATIONS

Attachments: 1) Council Bill No. 2016-152
2) Bid Tabulation
3) Engineer Letter
4) Notice of Award

Operations Section: Lynden Lawson
Department Head: Nicholas A. Heatherly
Finance Department: Leslie Haase
City Attorney: Peter C. Edwards
City Manager: Samuel L. Anselm

Recommended Action: Authorization to enter into a contract with **Joplin Industrial Electric Company** to purchase and install Remote Transmitting Units (RTU's) and rain gauges as part of an operational upgrade to twelve wastewater lift stations along with all associated hardware and software for a complete Supervisory Control and Data Acquisition system (SCADA). This contract is in the amount of $271,353.22.

Background:
A Supervisory Control and Data Acquisition system (SCADA) is used to collect data, monitor flows and/or remotely change pump speeds to improve operations and provides the operators with the ability to be pro-active in lieu of reactive to situations that develop within the wastewater collection system. This type of technology is needed to provide staff a more efficient method of responding to operational problems that can result in unpermitted discharges and sewer backups into homes and businesses if not addressed in a timely manner. We will be installing thirteen remote transmitting units (RTU's); one at each of twelve wastewater lift stations and one on top of City Hall.

As part of the City's continued effort to reduce Infiltration and Inflow (I&I) we will also be purchasing and installing five rain gauges in conjunction with the thirteen RTU's; four at lift stations and one on top of City Hall. Rain duration and intensity data are critical elements in analyzing wastewater flows as we move forward with the future stages of our I&I reduction program, which will include an extensive flow monitoring program throughout the city.

Staff has been working with its Engineering Consultant (Allgeier-Martin) since August 2015 to design a system to accomplish our goals. This project was a part of the FY15-16 budget but we were unable to complete the design and bidding process prior to the end of the fiscal year, so a budget adjustment is required to move this project into the FY16-17 budget.

Discussion:
The bids advertised in accordance with the city procurement policies and two bids were received on October 20, 2016. Joplin Industrial Electric Company (JIE) submitted the lowest and responsible bid. This contract will have JIE purchasing and installing thirteen (13) RTU's and purchase an additional six (6) units for future installation. The spare units will be installed at other lift stations within the wastewater collection system later this fiscal year.

Recommendation: City staff recommends that Council approve the contract with Joplin Industrial Supply Company in the amount of $271,353.22 and be approved on an emergency basis in accordance with Section 2.12(6) of the Joplin City Charter.