



February 14, 2022

Honorable Mayor and  
Members of the City Council  
City of Warrensburg, Missouri

Dear Mayor and Council Members:

**SUBJECT:** An Ordinance Authorizing the City Manager and City Clerk to Execute a Contract with Empire Electric Services & Technologies for the East/West Wastewater Treatment Plant SCADA Upgrade Project, in the City of Warrensburg, Missouri

**BACKGROUND:**

The Supervisory Control and Data Acquisition (SCADA) system is the computer network that communicates with equipment throughout the wastewater treatment plants. SCADA allows the plant to automatically operate, and if the SCADA system no longer functions properly, the plant would have to be manually operated 24 hours a day. The existing SCADA system components are proprietary and can only be maintained, programmed and upgraded by a single company. A significant portion of the existing components are no longer manufactured by the company making repairs and replacements difficult and rendering the system obsolete. A complete upgrade is necessary.

**ISSUES:**

Allstate Engineering was contracted to upgrade and redesign the SCADA system with non-proprietary equipment for both plants. This will allow other integrators and contractors to assist in maintaining the system in the future. Additionally, the new SCADA system will accommodate the additional sequence batch reactor needed at each plant to increase capacity in 4-5 years.

Two bids were received for the East / West Wastewater Treatment Plant SCADA Upgrade Project on January 19, 2022. Empire Electric is the lowest and best bid at a cost of \$1,675,336.23. The budgeted amount for the project is \$1,225,000. The increase in cost for this project has been contributed to increase in labor, material, equipment, and shipping costs.

Through a value engineering exercise, the original bid was reduced \$56,000. The total cost for the project is \$1,619,336.23.

**STRATEGIC PLAN:**

This installation is in Focus I: Investment in infrastructure.

**FISCAL IMPACT:**

The project is \$394,336 over budget. Several projects will be postponed to the next fiscal year to cover the additional cost of the SCADA system upgrade. The postponed projects total \$275,000 and include demolition of the former west wastewater treatment plant, reed bed clean out, stainless steel countertops for laboratory, and grit removal from the west plant digester. These projects can be postponed without impacting operations of the plants.

It is anticipated the increase in revenues will cover the remaining \$120,000 needed for this project. However, if revenues do not exceed budgeted revenues, \$120,000 of reserves will be used. There are adequate funds available in wastewater reserves.

**RECOMMENDATION:**

Pass ordinance.

Sincerely,

Danielle Dulin  
City Manager

Attachments: Ordinance  
Empire Electric Agreement  
Bid Tab  
Change Order No. 1

BILL NO. \_\_\_\_\_

ORDINANCE NO. \_\_\_\_\_

**AN ORDINANCE AUTHORIZING THE CITY MANAGER AND CITY CLERK TO EXECUTE A CONTRACT WITH EMPIRE ELECTRIC SERVICES & TECHNOLOGIES FOR THE EAST/WEST WASTEWATER TREATMENT PLANT (WWTP) SCADA UPGRADE PROJECT, IN THE CITY OF WARRENSBURG, MISSOURI**

**BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WARRENSBURG, MISSOURI, AS FOLLOWS:**

Section 1. The City Manager and City Clerk are hereby authorized to execute an agreement with Empire Electric Services & Technologies, for the East / West WWTP SCADA Upgrade Project in the City of Warrensburg, Missouri.

Section 2. That this ordinance shall be in full force and effect after its passage by the City Council.

Passed in open session this 14th day of February 2022.

\_\_\_\_\_  
Scott Holmberg, Mayor

ATTEST:

\_\_\_\_\_  
Carey West, Acting City Clerk