

ITEM#: 29
 DATE: 09-26-23
 DEPT: ELECTRIC

COUNCIL ACTION FORM

SUBJECT: FURNISHING 69kV SF6 CIRCUIT BREAKERS AND CAPACITOR BANK FOR TOP-O-HOLLOW SUBSTATION - CONTRACT COMPLETION

BACKGROUND

In FY 2017/18, City Council approved preliminary plans and specifications for furnishing (1) two 69kV circuit breakers and capacitor bank for Top-O-Hollow Substation, and (2) two additional circuit breakers. The Engineer’s Estimate of the cost for this phase of the project was \$296,000. This includes \$196,000 for the Top-O-Hollow Substation 69kV Breakers and Capacitor Bank for the CIP project, as well as \$100,000 for 69kV routine breaker replacements within the operating budget.

On April 10, 2018, City Council awarded two contracts for this equipment:

- 1) **Siemens Industry, Inc, Richland, MS** – for Bid No. 1, Furnishing four 69kV SF6 Circuit Breakers in the amount of \$150,442 (inclusive of Iowa sales tax),
- 2) **Controllix Corporation, Walton Hills, OH** – for Bid No. 2, Furnishing one 13.8kV Capacitor Bank in the amount of \$98,105, plus applicable sales taxes in the amount of \$6,643.35 to be paid directly by the City of Ames to the State of Iowa (\$104,748.35 total).

The total cost of these two contracts was \$255,190.35. The equipment has been delivered and all the requirements of the contracts have been met by Siemens Industry, Inc. and Controllix Corporation. The Engineer has provided a certificate of completion.

The FY 2017/18 CIP for Electric Services included \$1,950,000 for construction under the Top-O-Hollow Substation Expansion and Breaker Addition project plus transfers from other CIPs as shown in the table below, which will cover the construction project as well as the two kV breakers and the capacitor bank for that project.

FUNDING SOURCES:

SOURCE	AMOUNT
FY 2017/18 Top-O-Hollow Substation Improvements CIP Construction budget	\$ 1,950,000
Transfer from budgeted CIP funds for 69kV Transmission Reconstruction (\$800,000), Street Lights (\$271,843) and 69kV Switchyard Relay & Controls (\$331,652)	\$ 1,403,495
TOTAL AVAILABLE FUNDING	\$ 3,353,495

There remains an estimated expense of \$350,000 for the installation of underground cable to complete the Top-O-Hollow Substation project. Including the estimated cost for that project component, total project expenses will be \$2,767,587.58 as shown in the table below. This leaves \$585,907.42 of funding remaining in the project balance, which will either be returned to the Electric Fund balance or allocated to other projects.

EXPENSES:

VENDOR	DESCRIPTION	AMOUNT
Siemens Industry, Inc	69kV Breakers (this Council action)	\$ 150,442.00
Controllix Corporation	13.8kV Cap Bank (this Council action)	104,748.35
HK Scholz	Switchgear and control panels	599,231.00
RESCO	Instrument transformers, 69kV switches and lightning arrestors	75,791.83
Kriz-Davis Co. – BSE	Steel structures	42,003.18
Equipment Subtotal		\$ 972,216.36
Primoris Aevenia, Inc	Construction Contract (inclusive of 7 change orders)	\$ 1,369,202.22
L&S Electric, Inc.	Equipment commissioning	76,169.00
<i>Not Yet Awarded</i>	<i>69kV underground cable installation (estimated)</i>	<i>350,000.00</i>
Construction Subtotal (including estimated expenses)		\$ 1,795,371.22
TOTAL EXPENSES		\$ 2,767,587.58

ALTERNATIVES:

1. a. Accept completion of the contract with Siemens Industry Incorporated, of Richland, MS, for at a total cost of \$150,442 (inclusive of Iowa sales tax).
- b. Accept completion of the contract with Controllix Corporation, of Walton Hills, OH, for at a total cost of \$98,105, plus Iowa Sales tax of \$6,643.36.
2. Delay acceptance of this contract.

CITY MANAGER’S RECOMMENDED ACTION:

The contractors furnishing 69kV SF6 Circuit Breakers and 13.8kV Capacitor for Top-O-Hollow Substation Expansion and Routine Breaker Replacements have delivered the equipment specified under the contracts. The Engineer has issued a certificate of completion of the work. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.