

STAFF REPORT UTILITY MEETING

AGENDA DATE: January 31, 2023

DEPARTMENT: Electric Utility

TITLE:

Task Order No. 12 with E.C. Fennell, PA, to complete engineering design for the New Main Yard Feeder 1W18

SUMMARY:

Task Order No. 12 authorizes E.C. Fennell, PA, to complete engineering design for the New Main Yard Feeder 1W18 in the amount not to exceed \$175,828. This project has been identified as an element of the City's electric utility System Hardening and Reliability Improvement Project (SHRIP) and for which bonds were sold in November 2020 and May 2022.

BACKGROUND AND JUSTIFICATION:

City previously issued a Request for Qualifications (RFQ 18-303) to provide letters of interest and Professional Qualifications from consulting companies/firms for civil engineering, geotechnical engineering, surveying, architecture, hydrogeological services, energy management and engineering services. E.C. Fennell, PA, was one of three firms selected under the Energy Management category for the Continuing Contracts for Professional Services.

The purpose of the new 1W18 Main Yard Feeder is to provide the 4th Ave. North and 11th Ave. North Substations with a dedicated feeder. In the current configuration, the 4th Ave. North and 11th Ave. North Substations are provided power by the 1E03 and 1E05 feeders. The combined customer count on 1E03 and 1E05 feeders is approximately 11,043 or 40% of the entire distribution system.

The new 1W18 Main Yard Feeder would reduce loading on the 1E03 & 1E05 Feeders and provide system redundancy during maintenance and switching operations. The new feeder will also aid in minimizing exposure during future storm-hardening improvements on the 1E05 and 1E03 feeders. This new feeder will provide a backup from a different bus and different transformer. The path for the sub-transmission ring will be East, West, East West. E05, W18, E03, W12 providing for true redundancy. Once constructed, the new 1W18 Feeder will provide power to approximately 4,302 customers and approximately 2,370 customers would be removed from the 1E05 feeder and 1,932 customers would be removed from the 1E03 feeder.

EC Fennell has been tasked to provide engineering design for the New 1W18 Main Yard Feeder. The design team will prepare all drawings, pole loading analysis, pole bores, framing standards, materials list and construction sequencing as part of this Task Order. EC Fennell will provide assistance with Right of Way acquisition for construction, prepare permitting drawings and provide engineering support through the construction phase. The design phase is estimated to be completed in 9 months at a cost not to exceed \$175,828.

MOTION:

Move to approve/disapprove Task Order No. 12 with E.C. Fennell, PA, to complete engineering design for the New Main Yard Feeder 1W18 at a cost not to exceed \$175,828.

ATTACHMENT(S):

Fiscal Impact Analysis

FISCAL IMPACT ANALYSIS

Five Year Summary of Fiscal Impact:

Fiscal Years	2023	2024	2025	2026	2027
Inflows					
Current Appropriation	0	0	0	0	0
Program Income	0	0	0	0	0
Grants	0	0	0	0	0
In Kind	0	0	0	0	0
Outflows					
Operating	0	0	0	0	0
Capital	\$175,828	0	0	0	0
Net Fiscal Impact	\$175,828	0	0	0	
No. of Addn'l Full-Time Employee Positions					
	0	0	0	0	0

Contract Award - Existing Appropriation	
	Expenditure
Department	Electric Utility
Division	T & D
GL Description	Improve Other than Build / Infrastructure
GL Account Number	421-6034-531-63.15
Project Number	SH2243
Requested Funds	\$175,828