

# STAFF REPORT UTILITY MEETING

**AGENDA DATE:** January 31, 2023

**DEPARTMENT:** Electric Utility

**TITLE:**

Task Order No. 13 with E.C. Fennell, PA, to complete engineering design for the E-12 Circuit Storm Hardening

**SUMMARY:**

Task Order No. 13 authorizes E.C. Fennell, PA, to complete engineering design for the E-12 Circuit Storm Hardening in the amount not to exceed \$171,076. 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 E-12 Circuit is a 26kV sub-transmission circuit that delivers power from the Main Yard Substation to the 12th Ave. South Substation. The E-12 Circuit continues from the 12th Ave. South substation to the 15th Ave. South Substation providing an additional 26kV sub-transmission feeder to the substation that is be utilized as an alternate power source during switching & maintenance operations and provides system redundancy.

The current configuration of the E-12 Circuit consists of a two, double-stacked, 3-phase, 26kV circuits, framed on wood poles from the Main Yard Substation to the 12th Ave. South Substation. This segment of the E-12 has been designed and currently in the material procurement phase.

The second segment, from the 12th Ave. South Substation to the 15th Ave. South Substation, also consists of two, double-stacked 3-phase circuits, with the E-12 at 26kV located at the top and the 1501 circuit on the bottom phase at 4kV.

EC Fennell has been tasked to provide engineering design for storm hardening for the 26B1E12 circuit from the 12th Ave South Substation to the 15th Ave. South Substation. 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 also provide permitting drawings and coordination through the construction phase. The design phase is estimated to be completed in 9 months. A map attached to this staff report outlines the service area for the 26B1E12 circuit.

**MOTION:**

Move to approve/disapprove Task Order No. 13 to EC Fennell PA. to complete engineering design for the E-12 Circuit Storm Hardening at a cost not to exceed \$171,076.

**ATTACHMENT(S):**

Fiscal Impact Analysis  
Task Order No. 13

**FISCAL IMPACT ANALYSIS**

Five Year Summary of Fiscal Impact:

<b>Fiscal Years</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>Inflows</b>					
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
<b>Outflows</b>					
Operating	0	0	0	0	0
Capital	\$171,076	0	0	0	0
<b>Net Fiscal Impact</b>	<b>\$171,076</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>No. of Addn'l Full-Time Employee Positions</b>					
	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	SH2124
Requested Funds	\$171,076