

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: FEBRUARY 26, 2018

ITEM NO: 6

SUBJECT: RE-ROUTE THE FIBER OPTIC CABLE NETWORK FROM MAGNOLIA SUBSTATION TO PLAZA SUBSTATION – APPROVE WORK ORDER NO. 1808927 FOR \$167,000

ISSUE:

Approve Work Order No. 1808927 for re-routing the fiber optic cable network from Magnolia Substation to Plaza Substation, in the amount of \$167,000.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1808927 for re-routing the fiber optic cable network from Magnolia Substation to Plaza Substation in the amount of \$167,000.

BACKGROUND:

Magnolia Substation has served Riverside's electric system for 68 years and is scheduled to be decommissioned in 2018 due to obsolete and unreliable aged infrastructure. The site is deemed unsuitable for a new electric substation and will be vacated for sale.

Riverside Public Utilities' (RPU) existing Fiber Optic Cable Network (fiber network) interconnects through Magnolia Substation along Central Avenue and Riverside Avenue to the City's Fire Station #3, located at 6395 Riverside Avenue. The fiber network is an integral part of the communication infrastructure that serves RPU's electric substations and other City facilities for voice, video and data services. Since RPU is demolishing and vacating the Magnolia Substation property, it is necessary to relocate the fiber network.

DISCUSSION:

The proposed relocation path re-routes the existing fiber network from Magnolia Substation to Plaza Substation, abandoning the fiber cable along Central Avenue towards Riverside Avenue. An existing splice closure near the intersection of Central Avenue and Riverside Avenue will be utilized to reconnect Fire Station #3 to Plaza Substation. RPU will also utilize existing underground infrastructures along Riverside Avenue and Merrill Avenue to re-establish the fiber network at Plaza Substation. In addition, the Casa Blanca–Magnolia–Riverside Substations overhead fiber network will be spliced at an existing pole to establish the Casa Blanca to Riverside Substations fiber network.

The work includes engineering, design, equipment procurement, construction, installation, testing and commissioning of the fiber network.

The project breakdown is as follows:

Project Breakdown	
Engineering Performed By:	RPU engineering staff
Civil Construction Performed By:	None
Electrical Work Performed By:	RPU field forces / Contractor
Anticipated Start Date:	March 2018
Anticipated Duration:	6 weeks
Coordination Required With:	IT Department, Public Works Department
Reimbursements:	None

The breakdown for the total capital expenditure is as follows:

Description	Amount (\$)	% of Total
Design, Construction Management, Contingency	\$30,000.00	18%
Equipment and Materials	\$20,000.00	12%
Fiber Optic Electric Construction / RPU Contractor	\$117,000.00	70%
Total	\$167,000.00	100%

The electrical work proposed in this Board action is intended to be completed by RPU field forces. If additional resources are required to complete the electrical work, staff would competitively bid the work using the previously approved Contractors Panel. The estimated construction costs for this work is estimated to be \$117,000.

FISCAL IMPACT:

The total fiscal impact is \$167,000. Sufficient funds are available in Public Utilities' Electric Capital Account No. 6130000-470664.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery
Approved by: Todd Jorgenson, Utilities Interim General Manager
Approved by: John A. Russo, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability
of funds: Laura M. Nomura, Utilities Assistant General Manager/Finance

Project Site Map

