



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: FEBRUARY 27, 2017

ITEM NO: 5

SUBJECT: RIVERSIDE COMMUNITY COLLEGE DISTRICT FIBER OPTIC CABLE NETWORK-
WORK ORDER NO. 1719910 IN THE AMOUNT OF \$179,000

ISSUE:

Approve Work Order No. 1719910 in the amount of \$179,000 to build a fiber optic cable network for Riverside Community College District to provide communication services to Riverside City College.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1719910 in the amount of \$179,000.

BACKGROUND:

Riverside Public Utilities (RPU) operates an advanced broadband fiber optic cable based network to communicate between its substations and control centers for the operation of the electric grid. RPU has many locations and paths throughout the City where it owns excess fiber. This excess fiber is not connected to electronic switches at either end, rendering it "dark". Currently, RPU leases some of these excess fibers to third parties who install the electronics and "light" the fiber for communication use.

In January 2016, the Board approved Magellan Advisors (Magellan) fiber business plan and roadmap for enhanced broadband communications in Riverside. Magellan provided a plan for enhancement of RPU's business practices and expansion of our dark fiber offerings.

DISCUSSION:

Riverside Community College District (RCCD) requested to license a portion of RPU's fiber optic network to provide communication services to Riverside City College (RCC). To satisfy this request, RPU determined the engineering cost and identified the fiber optic network routes to connect the RCC facilities. The total project cost to complete the system addition and the network extension to the RCC facilities is \$178,180.

RPU has the opportunity to expand its existing fiber business to accommodate demand from stakeholders in the community. RPU's fiber business has already created community benefit by enabling providers and other public organizations to make use of its fiber services. The request from RCCD enables RPU to expand its fiber business to serve community needs and helps evaluate long-term development opportunities that build on the strengths of its existing business. This opportunity achieves the goals outlined in the Magellan Report. Staff will present to the Board the Fiber Use Lease Agreement with RCCD at a later date.

Work Order No. 1719910 includes engineering, design, equipment procurement, construction, installation, testing and commissioning of the fiber optic network. Engineering, design, and testing will be performed by RPU staff. Construction and installation of the fiber optic network will be performed by RPU staff and contractors.

The project breakdown is proposed as follows:

Project Breakdown	
Engineering Performed By: RPU	\$20,840
Material and Equipment Procured By: RPU	\$14,239
Fiber and Equipment Installation Performed By: RPU and Contract Staff	\$122,522
Fiber Termination/Testing/Project Contingency Performed By: RPU	\$20,579 (10%)
Anticipated Start Date:	March 2017
Anticipated Construction Duration:	Three Months
Coordination Required With:	Public Works & RCCD

FISCAL IMPACT:

Sufficient funds of \$179,000 are available in the Electric Capital Improvement Program Account No. 6130000-470664.

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

Certifies availability of funds: Laura Chavez-Nomura, Utilities Assistant General Manager/Finance

