

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JANUARY 28, 2019

ITEM NO: 4

SUBJECT: **BID NO. RPU-7600 FOR THE UNDERGROUND SUBSTRUCTURES INSTALLATION FOR PLAZA SUBSTATION 4KV TO 12KV CONVERSION OF CIRCUIT 450 PROJECT WITH VCI CONSTRUCTION, LLC FOR \$671,493.90 AND WORK ORDER NO. 1503112 FOR \$2,174,000**

ISSUES:

Reject as non-responsive the bid submitted by E.E. Electric, Inc. of Mira Loma, California and award Bid No. RPU-7600 to VCI Construction, LLC of Upland, California for the Electric Underground Substructures Installation for the Plaza Substation 4kV to 12kV Conversion of Circuit 450 Project, in the amount of \$671,493.90; and approve Work Order No. 1503112 in the amount of \$2,174,000 for the work associated with the project.

RECOMMENDATIONS:

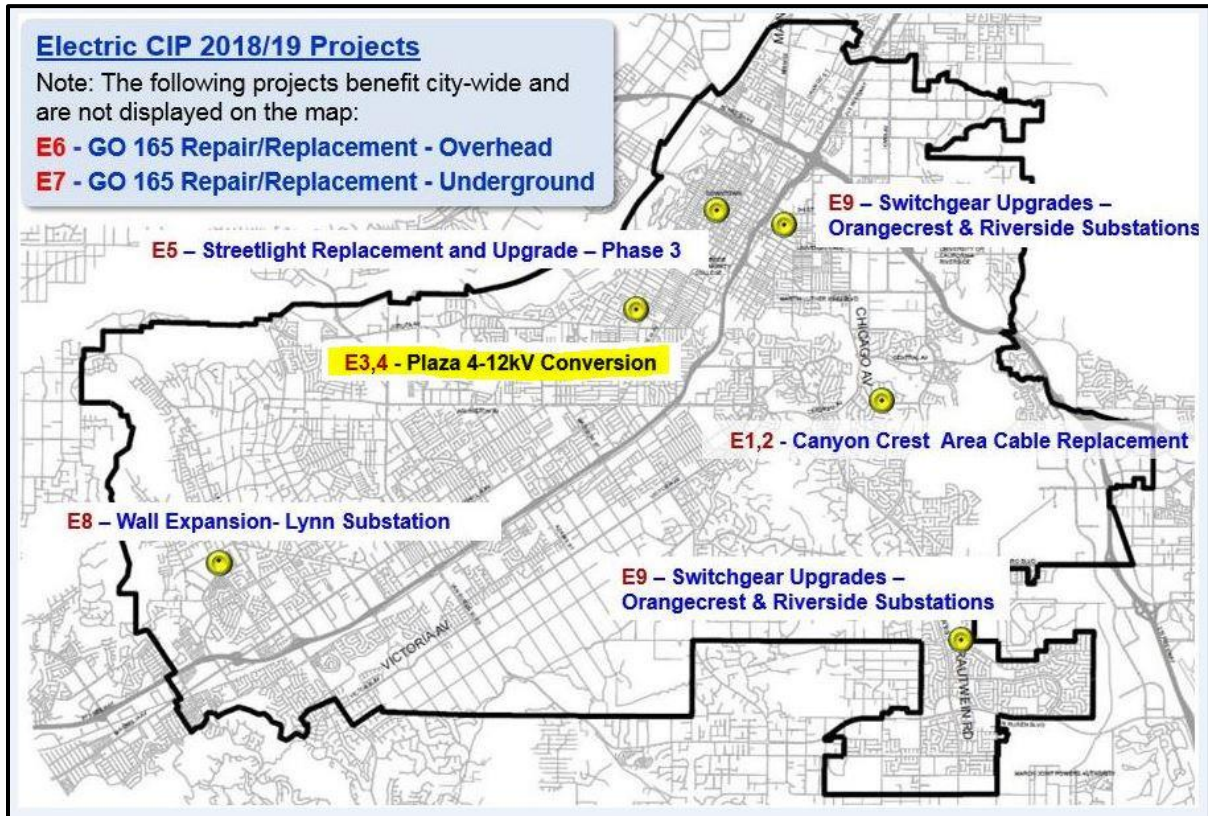
That the Board of Public Utilities:

1. Reject as non-responsive the bid submitted by E.E. Electric, Inc. of Mira Loma, California, for the Electric Underground Substructures Installations for the Plaza Substation 4kV to 12kV Conversion of Circuit 450 Project in the amount of \$586,630.95;
2. Award Bid No. RPU-7600 to VCI Construction, LLC of Upland, California for the Electric Underground Substructures Installations for the Plaza Substation 4kV to 12kV Conversion of Circuit 450 Project in the amount of \$671,493.90; and
3. Approve Work Order No. 1503112 in the amount of \$2,174,000 for work associated with the Electric Underground Substructures Installations for the Plaza Substation 4kV to 12kV Conversion of Circuit 450 Project.

BACKGROUND:

On June 25, 2018, the Board of Public Utilities (Board) received the Planned Routine Electric and Water Capital Projects Over \$500,000 in Fiscal Year 2018/19 report. The report provided an overview of the routine infrastructure projects and highlighted the importance of these capital improvement projects. Discussion of these projects provided context and familiarity to streamline Board approval of individual project actions throughout the fiscal year.

Plaza Substation Circuit 450 is part of the planned voltage conversion program to convert existing 4kV to 12kV distribution circuits to improve system capacity and reliability as recommended in the Electric System Master Plan (ESMP). This project is an important step in facilitating future voltage conversions by creating additional electrical field ties to existing 12kV circuits in the surrounding area.



Plaza Substation 4kV to 12kV Conversion – Vicinity Map

The project will upgrade electric distribution facilities west of San Diego Avenue, south of and along Merrill Avenue, north of and along Central Avenue and east of School Circle Drive. The scope of work includes the installation of approximately 4,400 trench feet of conduit, 12,000 circuit feet of underground primary cable, three (3) pad-mounted junction cabinets, two (2) pad-mounted switches, one (1) underground transformer, street paving, and related electrical distribution facilities.

The scope also includes the removal of approximately 8,760 circuit feet of aged electrical cable, six (6) underground gas switches, seven (7) transformers, and related distribution facilities. Intermittent electric service disruptions will be coordinated during construction and advanced outage notifications will be issued to minimize the impact on customers.



Trench and Conduit Installations



Excavation in Street

DISCUSSION:

Bid No. RPU-7600 for the Electric Underground Substructures Installation for the Plaza Substation 4kV to 12kV Conversion of Circuit 450 Project, was posted on the City's Online Bid System on September 6, 2018 and closed October 12, 2018. Five vendors submitted bids for the project. Staff evaluated the bids and deemed VCI Construction, LLC of Upland, California, to be the lowest responsive and responsible bidder. E.E. Electric, Inc. was deemed non-responsive due to non-compliance of the Special Provisions regarding subcontracting, not-to-exceed 50% of the project. The bid was within the engineer's estimated amount of \$700,000. The bids are summarized in the table below:

Vendors	City Location	Bid Amount	Rank
E.E. Electric, Inc.	Mira Loma, CA	\$586,630.95	Non-responsive for exceeding 50% subcontracted work
VCI Construction, LLC	Upland, CA	\$671,493.90	1
Hotline Construction, Inc.	Brentwood, CA	\$691,162.36	2
Henkels & McCoy	Pomona, CA	\$759,587.91	3
PAR Electrical Contractors, Inc.	Rancho Cucamonga, CA	\$897,248.80	4

➤ *Engineer's Estimate*

\$700,000.00

Riverside Public Utilities (RPU) engineering staff performed the design to eliminate any negative visual impacts to the project and surrounding area, with sensitivity to the existing neighborhood, and within City Planning guidelines for the designated area of the project.

The project and fiscal breakdown is as follows:

Project and Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU Engineering and Operations	\$98,180
Civil Construction:	Contractor	\$671,494
Electrical Work	RPU Field Forces	\$1,108,091
Design		\$229,086
Construction Contingency – Contract (10%)		\$67,149
Work Order Total:		\$2,174,000
Anticipated Start Date:		January 2019
Anticipated Duration:		16 weeks

The Purchasing Manager concurs that the recommendation is in compliance with Purchasing Resolution No. 23256.

In general, infrastructure replacement programs such as 4kV to 12kV conversion within the RPU service territory are given priority over other efforts such as street light retrofit projects based upon the substantial number of customers impacted during outages resulting from failure of older 4kV equipment. The Plaza Substation 4kV to 12kV Conversion of Circuit 450 Project has been deemed high priority as a result of recent comprehensive engineering analysis. Based upon our priority to identify, stratify and replace 4kV equipment within the RPU service territory, this project has been given priority over other efforts that focus on retrofit of existing street lights. Partial funding for this project will come from the current year's Neighborhood Street Light Retrofit Account to fund the Major 4/12kV Conversion Account based upon those priorities.

FISCAL IMPACT:

The total fiscal impact is \$2,174,000. Following the transfer of \$855,000 funding from the Neighborhood Street Light Retrofit Account, sufficient funding will be available in Public Utilities Major 4/12kV Conversions Account No. 6130100-470644.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery
Approved by: Todd M. Corbin, Utilities General Manager
Approved by: Al Zelinka, FAICP, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability
of funds: Aileen Ma, Interim Utilities Assistant General Manager/Finance & Administration

Attachments:

1. Project Site Map
2. Bid Award Recommendation
3. Presentation

Attachment No. 1 – Project Site Map

