



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 25, 2017

ITEM NO: 5

SUBJECT: **AWARD BID NO. RPU-7495 FOR THE REHABILITATION OF FOUR ELECTRICAL VAULTS AND MANHOLES THROUGHOUT THE CITY TO HENKELS & McCOY OF POMONA, CALIFORNIA, IN THE AMOUNT OF \$465,539 – APPROVE WORK ORDER NO. 1804337 FOR \$557,000**

ISSUES:

Award Bid No. RPU-7495 to Henkels & McCoy of Pomona, California, for the Rehabilitation of Four Electrical Vaults and Manholes throughout the City, in the amount of \$465,539; and approve the capital expenditure of \$557,000 for Work Order No. 1804337.

RECOMMENDATIONS:

That the Board of Public Utilities:

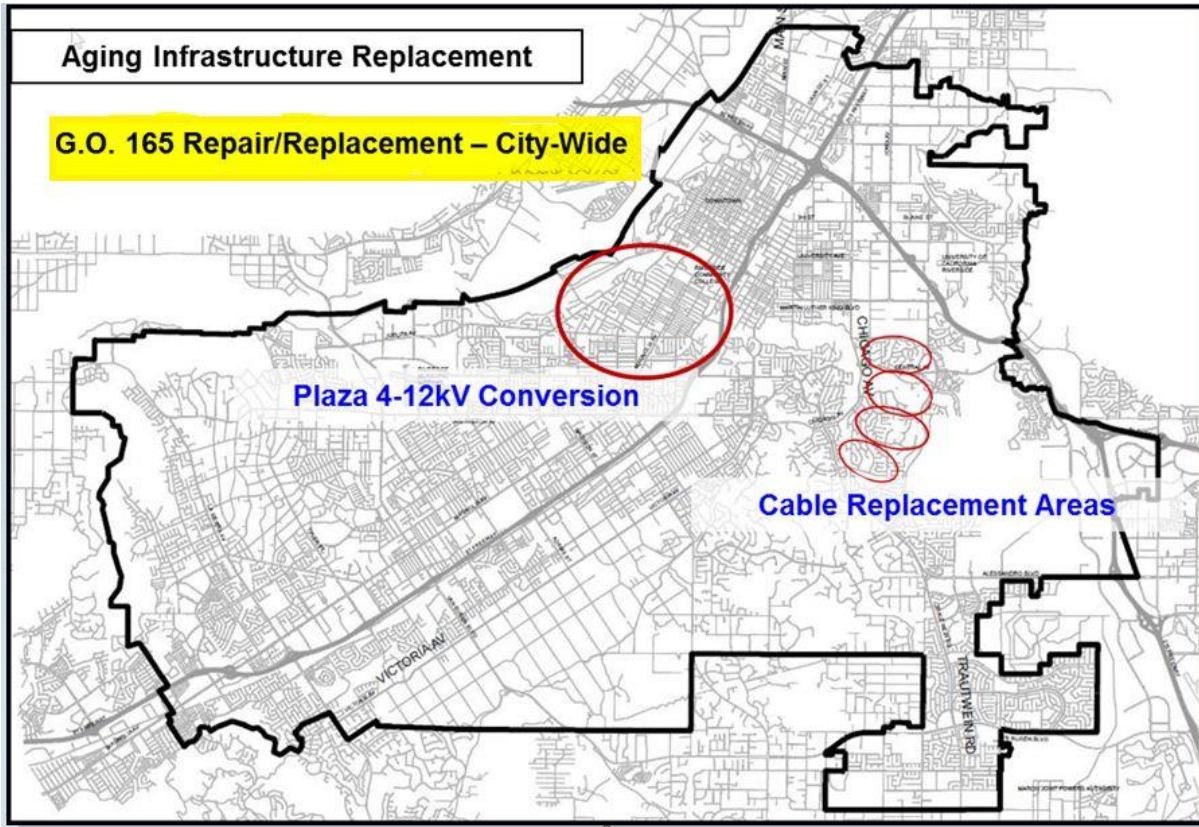
1. Award Bid No. RPU-7495 for the Replacement of Four Electrical Vaults and Manholes throughout the City, to the lowest responsive and responsible bidder Henkels & McCoy, Pomona, California, in the amount of \$465,539; and
2. Approve Work Order No. 1804337 in the amount of \$557,000.

BACKGROUND:

On July 10, 2017, the Board of Public Utilities received the Planned Routine Electric and Water Capital Projects Over \$500,000 in Fiscal Year 2017/18 report. The report provides an overview of the routine infrastructure projects and highlights 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.

One of the projects discussed was the planned repair/replacement of six (6) underground vaults in various locations based upon detailed inspections per California General Order 165 (G.O. 165). Detailed inspections identify underground vaults which are at risk of failure and have the potential of becoming a public safety hazard and adversely affect the electric system's reliability.

There are no planned outages as part of this project. Should unforeseen circumstances require an outage, notifications will be issued prior to commencing any work, and electric service disruptions will be coordinated with customers to minimize any impact.



Scope: G.O. 165 Rehabilitation of four Vaults and Manholes

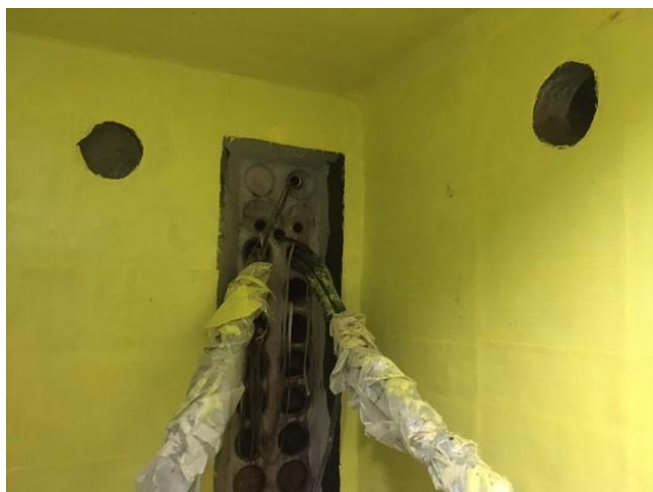
On February 15, 2017, a no-cost pilot project was conducted by Newbasis, in conjunction with a Riverside Public Utilities (RPU) field crews, to rehabilitate vault V-1400, located at the intersection of Fourteenth Street and Vine Street. Newbasis manufactures pads and below structures enclosures for the utility industry and industrial applications. One of their products is the In-Place-Replacement (IPR) process, which is made of advanced composites mixed on site to repair and replace failing, cracked, spalling, and exposed rebar in structures. Newbasis and RPU successfully completed the pilot project using the In-Place-Replacement process. IPR has been proven to be cost effective, sustainable and has an estimated life extension of fifty to sixty years. Street excavations or extended power outages are not required when using the In-Place-Replacement process.

The scope of work includes rehabilitation by In-Place-Replacement of two deteriorated underground vaults and two underground manholes: V-1733 located at the intersection of Country Club Drive and Via Loma, V-1735 located at the intersection of Country Club Drive and Via Coiba, M-2839 located on Chicago Avenue north of Spruce Street, and M-447 located on Pachappa Drive south of Jurupa Avenue and Olivewood Avenue. The work also includes traffic control at all four locations, inspection of work, and coordination with Public Works to comply with working hours in the area.

The rehabilitation of four underground utility structures will improve system reliability and safety, extend the life of existing facilities, and avoid long power outages and street excavations when compared to traditional vault replacement. The upgraded structures will reduce likelihood of failures and damage to electrical equipment. Repair/Replacement of deteriorated underground vaults and manholes is identified as part of the Utility 2.0 Electric Infrastructure Road Map.



BEFORE REPAIR - PILOT PROJECT ON FEBRUARY 15, 2017



AFTER REPAIR - PILOT PROJECT ON FEBRUARY 15, 2017

DISCUSSION:

Bid RPU-7495 was posted on the City's Online Bid System on June 30, 2017 and closed on August 9, 2017. One vendor submitted a bid for the work. Staff evaluated the bid and deemed Henkels & McCoy, Pomona, CA to be the lowest responsive and responsible bidder. The bid was above the engineer's estimated amount of \$400,000. The bid is summarized in the table below:

Vendors	City Location	Bid Amount	Rank
1. Henkels & McCoy	Pomona, CA	\$465,539	1

➤ *Engineer's Estimate* \$400,000

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 breakdown is proposed as follows:

Project Breakdown	
Engineering Performed By:	RPU engineering staff
Civil Construction Performed By:	Henkels & McCoy
Electrical Work Performed By:	RPU field forces
Anticipated Start Date:	October 2, 2017
Anticipated Duration:	6-8 weeks
Coordination Required With:	RPU Field Superintendent, PW Inspector
Reimbursements:	None

The Purchasing Services Manager concurs that the recommended actions comply with Purchasing Resolution No. 22576.

FISCAL IMPACT:

The capital expenditure for Work Order No. 1804337 is \$557,000. Sufficient funds are available in Public Utilities' Electric Capital Account No. 6130000-470623.

Description	Amount (\$)	% of Total
Design, Construction Management, Inspection, Contingency	\$51,554	9%
Construction Contract	\$465,539	84%
Electric Construction Underground	\$39,907	7%
Total	\$557,000	100%

Prepared by: George R. 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

Attachments:

1. Bid Award Recommendation
2. Presentation

Project Site Map

