

BID NO. RPU-7799 FOR 69KV UNDERGROUND CABLE INSTALLATION FOR RERC TO HARVEY LYNN AND FREEMAN LINES OF RIVERSIDE TRANSMISSION RELIABILITY PROJECT (RTRP)

Riverside Public Utilities

Board of Public Utilities
February 22, 2021

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BACKGROUND

1. Riverside Transmission Reliability Project (RTRP) is a joint project with Southern California Edison;
2. RTRP will provide a critical second connection to the state electric transmission grid;
3. Project addresses capacity needs and reliability of the City's electric grid system;
4. The 69kV sub-transmission lines from RERC to Harvey Lynn and Freeman Substations improves electric system reliability within City of Riverside'

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BACKGROUND (cont.)

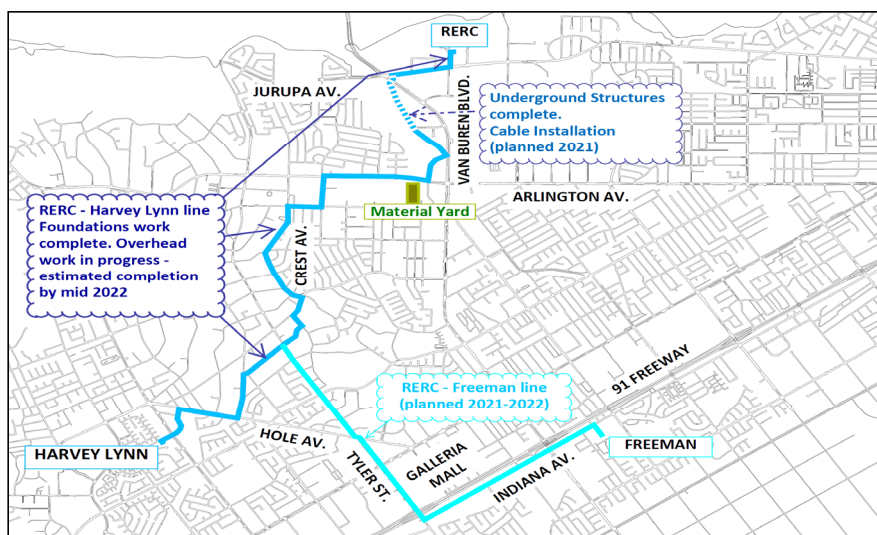
5. The structure work for this underground section is complete;
6. On July 2020, RPU completed the installation of 37 drilled pier foundations needed for the 69kV overhead RERC to Harvey Lynn line; work is currently in progress for the overhead RERC to Harvey Lynn line;
7. 69kV overhead RERC-Freeman line work is anticipated FY 21/22; and
8. Segments of 69kV sub-transmission route within vicinity of Riverside Municipal Airport - Installation of 69kV underground cable needed for this section.

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RTRP SITE MAP



69kV RERC to Harvey Lynn and RERC to Freeman sub-transmission lines

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69KV UNDERGROUND CABLE INSTALLATION

1. Location of cable installation will be from north side Jurupa Ave, and head south across Van Buren Blvd towards Doolittle Ave, just past Morris St south;
2. Approximately 6-8 weeks to complete; and
3. No electric service disruptions anticipated during cable installation.



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69KV CABLE INSTALLATION SCOPE OF WORK

1. Installation of two separate half mile sections of underground cable and terminations for 69 kV lines from RERC to Harvey-Lynn and Freeman substations;
2. Installation of underground cable, ground wires, link boxes and associated hardware/materials;
3. Coordination with RERC-Harvey Lynn overhead line work; and
4. Contractor to provide labor and materials needed for construction.



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69KV CABLE PROCUREMENT AND CABLE REELS

1. On June 8, 2020, RPU Board of Public Utilities approved Work Order No. 2026813 for \$786,000 and Bid No. RPU-2016660, which included the approval of Requisition No. Y206791 in the amount of \$442,294 with 10% change order authority for the 69kV underground cable purchase from McAvoy & Markham Engineering & Sales Co.;
2. The cable manufacturer worked with RPU's engineering consultant for optimum design and length, and the final price of cable was \$451,963.26;
3. The cable manufacturer delivered cable on large reels valued at \$54,400;

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69KV CABLE PROCUREMENT AND CABLE REELS (cont.)

4. Cable Manufacturer provided RPU with two options - either to return reels at manufacturer's Seymour, CT location at RPU's cost or purchase the reels
5. RPU opted to purchase it due to cost logistics of shipping reels back and planned to sell it to underground cable installation contractor who may have use for it in future
6. An increase of \$54,400 in Work Order No. 2026813 and in Requisition No. Y206791 - Bid No. RPU-2016660 for cable purchase from McAvoy & Markham Engineering & Sales Co. of Irvine, California, is needed to include cost of reels

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69KV UNDERGROUND CABLE INSTALLATION BID

1. RPU requested bids for the 69kV underground cable installation of sub-transmission lines between RERC to Riverside's Harvey Lynn and Freeman Substations;
2. RPU also requested the bidders of underground cable installation contract to purchase the empty cable reels from RPU; and
3. The bidders were asked to provide their total bid amount to install the cable after subtracting the reels cost.



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CONTRACT BIDS

1. Bid No. RPU-7799 was posted on the City's Online Bid System on November 13, 2020, and closed January 08, 2020.
2. Staff evaluated the bids and deemed Asplundh Construction, LLC., Anaheim, CA to be the lowest responsive and responsible bidder

#	Vendors	City Location	Bid Amount	Rank
1	Asplundh Construction, LLC.	Anaheim, CA	\$524,990.00	1
2	Henkels & McCoy, Inc.	Pomona, CA	\$941,128.00	2
3	PAR Electrical Contractors, Inc.	Rancho Cucamonga, CA	\$1,406,023.04	3
4	Parkia, Inc.	Santa Fe Springs, CA	\$1,930,200.00	4

➤ Engineer's Estimate \$550,000



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FISCAL IMPACT

Project and Fiscal Breakdown for Underground Cable Installation		
Work Type	Performed By:	Amount (\$)
Engineering	Power Engineers, Inc.	\$35,000
Project Management	RPU Energy Delivery Engineering & Project Communications	\$30,000
	Power Engineers, Inc.	\$5,000
Construction Contract	Asplundh Construction, LLC.	\$524,990
Contingency - 15% of Construction Contract		\$78,749
Miscellaneous Materials		\$20,000
Work Order Total:		\$693,739
Anticipated Start Date:		April 2021
Anticipated Duration:		45 days
Cable reels procurement		
Material	Vendor:	Amount (\$)
Twelve reels for 69kV Cable	McAvoy & Markham Engineering & Sales Co.	\$54,400

➤ **Total Fiscal Impact** **\$748,139**

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RECOMMENDATIONS

That the Board of Public Utilities:

1. Award Bid No. RPU-7799 for installation of the 69kV underground cable for RERC to Harvey Lynn and RERC to Freeman lines to Asplundh Construction, LLC., of Anaheim, California, in the amount of \$524,990;
2. Approve construction contract contingency of 15% in the amount of \$78,749;
3. Approve Work Order No. 2111094 for the total capital expenditure of \$693,739 for the purpose of tracking work related to the installation of 69kV underground cable as part of RTRP Work Order No. 642975;

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RECOMMENDATIONS (CONTINUED)

4. Approve an increase of \$54,400 to include costs of reels in Requisition No. Y206791 – Bid No. RPU-2016660 for cable purchase from McAvoy & Markham Engineering & Sales Co. of Irvine, California, for a total amount of \$506,363.26; and
5. Approve an increase of \$54,400 in related Work Order No. 2026813 for total expenditure of \$840,000 for tracking expenses and invoices associated with the sub transmission line short-lead time overhead materials and underground cable for the 69 kV RERC to Harvey Lynn Sub-transmission Line Project.