

CANYON CREST CABLE REPLACEMENT AREA PROJECT

Riverside Public Utilities – Energy Delivery

Board of Public Utilities
June 28, 2021

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BACKGROUND

1. Pro-active replacement of aged cable and Cable-In-Conduit (CIC) systems in anticipation of high failure rate of cables
2. The Canyon Crest Cable Replacement Program has been active since 2010
3. CIC systems have exceeded their useful life

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AGED INFRASTRUCTURE

1. Canyon Crest area has the highest concentration of aged HMPE and Cable-In-Conduit type systems
2. HMPE and CIC account for 8% of the total installed underground cable, yet it's responsible for nearly 70% of underground cable failures
3. Replacement of aged underground infrastructure is identified as priority in the Utility 2.0 Electric Infrastructure Road Map

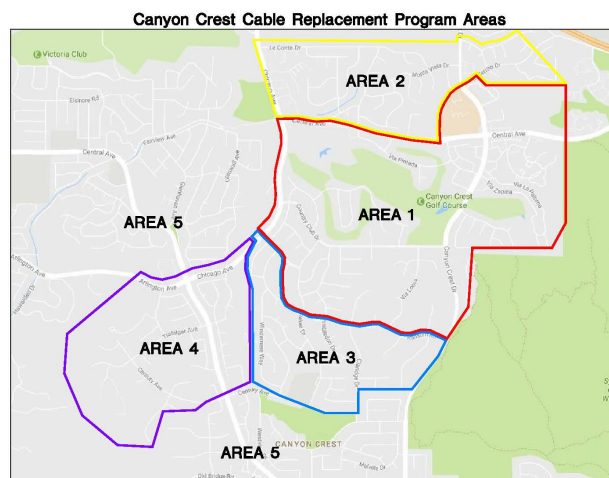


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CABLE REPLACEMENT PROGRAM

1. Reduce project cost by a factor of two with planned replacement compared to reactive replacement
2. Minimize outages by proactive cable replacement
3. Highly populated area due to apartment developments
4. Divided into five areas to minimize service disruption during construction



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PROJECT LOCATION

1. Canyon Crest Area 1F, Phase 3, area surrounded by Country Club Avenue, Shaker Drive, Tareyton Drive, and Claridge Drive
2. The project will upgrade facilities to approximately 186 customers
3. Electric service disruptions will be coordinated to minimize impact to customers

PROJECT SITE MAP



SCOPE OF WORK

1. Replace and upgrade conduits and cable, transformers and related facilities
2. Install 10,593 trench feet of conduit
3. Install 5,693 circuit feet of single phase primary underground cable and 3,954 circuit feet of three phase primary underground cable
4. 18 weeks to complete work



BENEFITS

1. Improves system operations and response time to outages
2. New looped system to help reduce outage interruption times
3. Increases electric system reliability and safety
4. Improves electric services and power quality to customers

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BID RESULTS

VENDORS	CITY LOCATION	BID AMOUNT	RANK
Hot Line Construction, Inc.	Brentwood	\$889,677.00	1st
International Line Builders, Inc.	Corona	\$991,896.35	2nd
Scorpion Backhoe, Inc.	Hemet	\$1,109,782.15	3rd
Herman Weissker, Inc	Riverside	\$1,160,566.77	4th
VCI Construction LLC	Upland	\$1,169,717.80	5th
Asplundh Construction LLC	Anaheim	\$1,209,086.60	6th
Doty Bros. Equipment Company	Norwalk	\$1,284,020.57	7th
Arizona Pipeline Company	Corona	\$1,389,342.85	8th
PAR Electrical Contractors, Inc.	Rancho Cucamonga	\$1,801,140.74	9th
Henkels & McCoy, Inc.	Pomona	\$1,925,793.92	10th

Engineer's Estimate

\$1,195,000



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PROJECT BREAKDOWN

Project and Fiscal Breakdown

Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU Engineering and Operations	\$54,158
Civil Construction:	Hot Line Construction, Inc.	\$889,677
Electrical Work	RPU Field Forces	\$165,988
Design	RPU Engineering	\$101,209
Civil Construction Contingency – Contract (10%)		\$88,968
Work Order Total:		\$1,300,000
Anticipated Start Date:		August 2021
Anticipated Duration:		18 weeks



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RECOMENDATIONS

That the Board of Public Utilities:

1. Award Bid No. RPU-7636 to Hot Line Construction, Inc., of Brentwood, California, in the amount of \$889,677 for the Canyon Crest Cable Replacement Area 1F, Phase 3 Project;
2. Approve the capital expenditure for Work Order No. 1619972 in the amount of \$1,300,000 which includes all design, construction, construction support, contract administration, inspection, and construction change order authority costs for the Canyon Crest Cable Replacement Area 1F, Phase 3 Project; and
3. Authorize the City Manager, or designee, to execute any documents necessary to effectuate the project described herein, as well as the ability to make minor non-substantive changes in alignment with all purchasing policies.



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