



CONDUIT AND CABLE REPLACEMENT FOR CANYON CREST CIRCUIT 1218 AREA 1D

Riverside Public Utilities – Energy Delivery

Board of Public Utilities
April 10, 2017

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1

BACKGROUND

1. On July 11, 2016, the Board received the Planned Routine Electric and Water Capital Projects over \$500,000 in FY 16/17 report to streamline the approval process
2. Pro-active replacement of aged cable and Conduit-In-Cable systems in anticipation of high failure rate of cables
3. The Canyon Crest Cable Replacement Program has been active since 2010

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2

AGED INFRASTRUCTURE

1. Canyon Crest area has the highest concentration of aged HMPE and Conduit-In-Cable 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

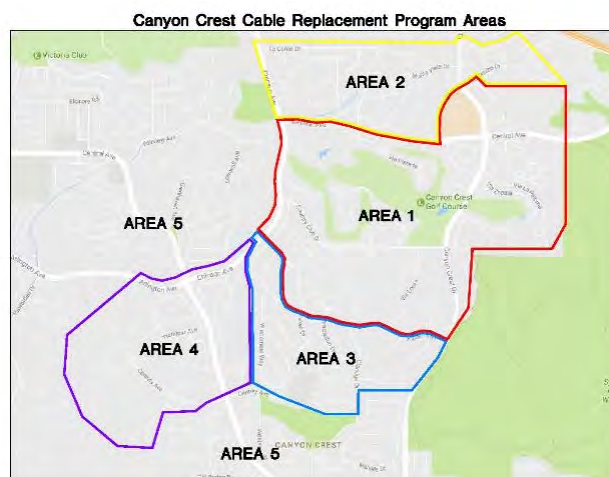


3

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CABLE REPLACEMENT PROGRAM

1. Reduce project cost by a factor of two (2) with planned replacement compared to reactive replacement
2. Minimize outages by pro-active cable replacement
3. Highly populated area due to apartment developments
4. Divided into five (5) areas to minimize service disruption during construction

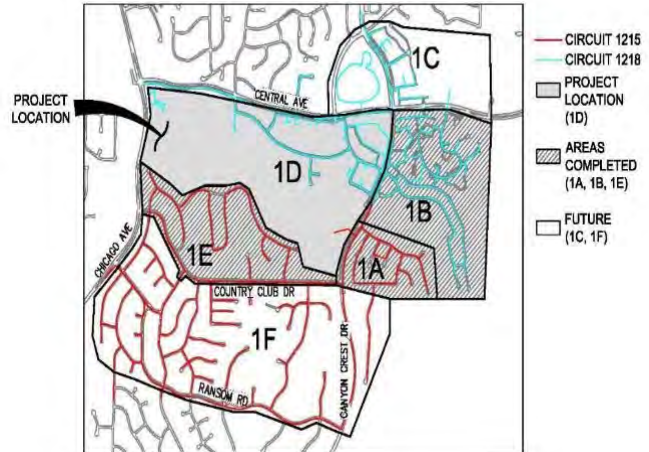


4

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PROJECT LOCATION

1. Canyon Crest Area 1D
2. South of Central Avenue in the region between Canyon Crest Drive and Chicago Avenue
3. The project will upgrade facilities to approximately 224 customers
4. Customers will be notified in advance before start of work
5. Electric service disruptions will be coordinated to minimize impacts to customers



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5

SCOPE OF WORK

1. Replace and upgrade conduits and cable, transformers and related facilities
2. Install 2,623 trench feet of conduit
3. Upgrade 8,672 circuit feet of primary underground cable
4. Remove 4,700 circuit feet of aged cable
5. 16 weeks to complete work



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6

BENEFITS

1. Improve system operations and response time
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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7

CONTRACT BIDS

1. January 10, 2017 – 1319813RPU Bid was posted
2. February 8, 2017 – Bids closed

Vendors	City Location	Bid Amount	Rank
1. Asplundh Construction Corp.	Anaheim, CA	\$329,738.50	1
2. Doty Bros. Construction Co.	Norwalk, CA	\$331,770.85	2
3. E.E. Electric, Inc.	Fontana, CA	\$347,007.10	Non-responsive
4. Hot Line Construction, Inc.	Brentwood, CA	\$377,896.00	4
5. Stronghold Engineering, Inc.	Riverside, CA	\$394,863.00	Non-responsive
6. Henkels & McCoy, Inc.	Pomona, CA	\$523,131.38	6
7. PAR Electrical Contractors, Inc.	Rancho Cucamonga, CA	\$655,732.29	7
8. VCI Construction, LLC	Upland, CA	\$768,026.26	8
➤ Engineer's Estimate	\$405,117		

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8

FISCAL IMPACT

Description	Amount (\$)	% of Total
Design, Construction Management, Inspection	\$172,430.30	18%
Construction Contract	\$329,738.50	34%
Electric Construction Underground	\$464,831.20	48%
Total:	\$967,000.00	100%

RECOMENDATIONS

That the Board of Public Utilities:

1. Award Bid No. 1319813-17RPU for the Conduit and Cable Replacement for Canyon Crest Area Circuit 1218 Area 1D to Asplundh Construction Corp., of Anaheim, California, in the amount of \$329,738.50; and
2. Approve Work Order No. 1319813 in the amount of \$967,000