

## **PLAZA SUBSTATION 4kV to 12kV CONVERSION OF CIRCUIT 441 IN THE AMOUNT OF \$2,038,000**

### **Energy Delivery**

Board of Public Utilities  
August 12, 2019

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## **BACKGROUND**

1. Priority in Utility 2.0 Electric Infrastructure Road Map
2. Outlined in five-year Electric System Master Plan
3. 4-12kV Voltage Conversion Program
4. Conversion prioritized by risks and events
5. Eliminate antiquated 4kV transformers and associated facilities

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## 4KV TO 12KV VOLTAGE CONVERSION

1. Voltage conversion projects upgrade system capacity and reliability
2. 4kV distribution facilities are outdated and inefficient
3. Six (6) Plaza Substation Circuits currently being converted

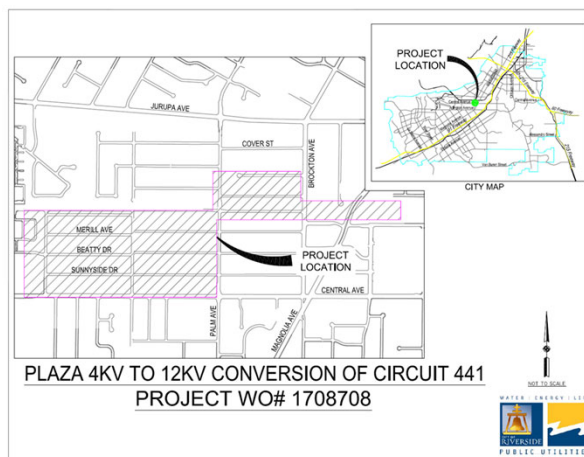


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## PROJECT LOCATION

1. Areas surrounded by Central Avenue, Cabo Dr, Dewey Ave and Palm Ave; and by Dewey Ave, Palm Ave, Cover St, and Magnolia Ave
2. Customers will be notified in advance before the start of work
3. Electric service disruptions will be coordinated to minimize customer impact



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## SCOPE OF WORK

1. Work performed by RPU field crews
2. 366 customers impacted
3. 88 wood poles, 39 transformers, 5,279 feet of cable, and related facilities will be replaced
4. 16,500 linear feet of wires and associated components to 12kV to be installed
5. 24 weeks to complete work



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## BENEFITS

1. Increase electric system reliability and safety
2. Improve electric services and power quality to customers
3. Reduce system operations and response time to outages
4. Eliminate antiquated facilities that are no longer available for replacement

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## FISCAL IMPACT

Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU Engineering and Operations	\$14,700
Electrical Work	RPU Field Forces	\$1,990,146
Design		\$33,154
Work Order Total:		\$2,038,000
Anticipated Start Date:		September 2019
Anticipated Duration:		24 weeks

## RECOMMENDATION

That the Board of Public Utilities approve Work Order No. 1708708 for a total capital expenditure of \$2,038,000 for the Plaza Substation 4kV to 12kV Conversion of Circuit 441 Project.