

# PLAZA SUBSTATION 4kV to 12kV CONVERSION CIRCUIT 448

## Energy Delivery

Board of Public Utilities  
July 9, 2018

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## BACKGROUND

1. On June 25, 2018, the Board received the Planned Routine Capital Projects over \$500,000 for Electric for FY 18/19 report to streamline the approval process.
2. 4kV to 12kV conversion projects replace obsolete facilities with modern, higher capacity distribution equipment.
3. Improve system reliability, safety, and power quality.

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## AGED INFRASTRUCTURE

1. Upgrade obsolete system to a modernized 12kV system.
2. Replace aged infrastructure that's beyond its useful life.
3. Replacement of aged overhead infrastructure is identified in the Utility 2.0 Electric Infrastructure Road Map.



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## PROJECT LOCATION

1. North of Arlington Avenue, south of Central Avenue, east of Brockton Avenue and west of De Anza Avenue.
2. The project will upgrade facilities to approximately **139 customers**.
3. Customers will be notified in advance before the start of work.
4. Electric service disruptions will be coordinated to minimize customer impact.

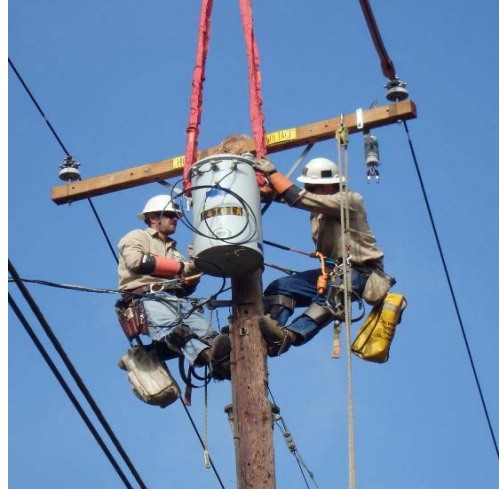


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## SCOPE OF WORK

1. Replace and install 29 wooden poles, 23 transformers, 1980 feet of cable, and related facilities.
2. Convert approximately 21,700 linear feet of wires and associated components to 12kV.
3. Remove existing aged facilities, including 17,875 linear feet of underground cable.
4. 24 weeks to complete work.
5. Work performed by RPU crews.



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## BENEFITS

1. Keep up with the increased demand for electricity.
2. Improve electric service and power quality.
3. Increase system reliability and safety.
4. Faster outage restoration by transferring loads to nearby 12kV circuits.

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## FISCAL IMPACT

Description	Amount (\$)
Design, Construction Management, and Inspection	\$48,156
Electric Construction	\$840,767
Electric Construction Contingency-10% of Electric work	\$84,077
Total	\$973,000

## RECOMMENDATION

That the Board of Public Utilities approve Work Order No. 1808449 for the Plaza Substation 4kV to 12kV Conversion of Circuit 448 in the amount of \$973,000.