

# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

**BOARD OF PUBLIC UTILITIES**

**DATE:** JANUARY 22, 2018

**ITEM NO:** 3

**SUBJECT:** CABLE REPLACEMENT PROJECT FOR PHASE 1 OF CANYON CREST AREAS 2 AND 3 – APPROVE WORK ORDER NO. 1813369 FOR \$136,000

**ISSUE:**

Approve the capital expenditure of \$136,000 for Work Order No. 1813369 for the Cable Replacement Project for Phase 1 of Canyon Crest Areas 2 and 3.

**RECOMMENDATION:**

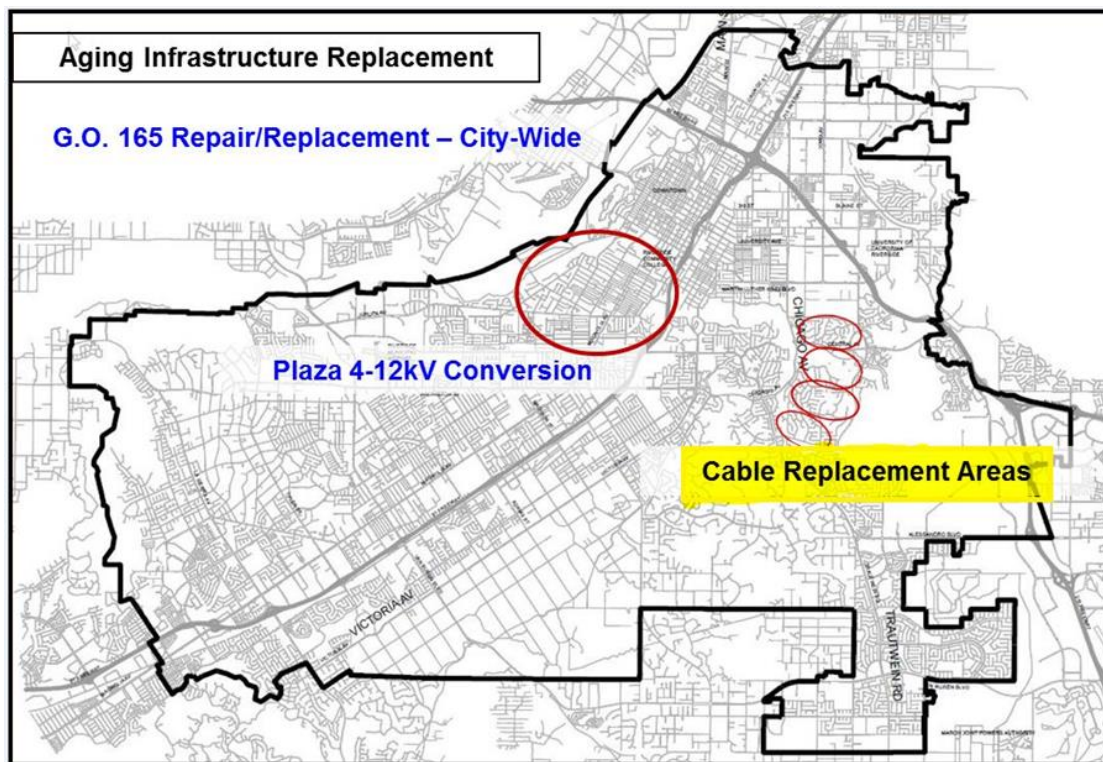
That the Board of Public Utilities approve Work Order No. 1813369 for the Cable Replacement Project for Phase 1 of Canyon Crest Areas 2 and 3 in the amount of \$136,000.

**BACKGROUND:**

On July 10, 2017, the Board of Public Utilities received the Planned Routine Electric and Water Capital Projects Over \$500,000 in Fiscal Year 2017/18 report. The report provides an overview of the routine infrastructure projects and highlights the importance of these capital improvement projects. Discussion of these projects was intended to provide context and familiarity to streamline Board approval of individual project actions throughout the fiscal year.

One of the projects discussed was the planned replacement of obsolete High Molecular Weight Polyethylene (HMPE) cable-in-conduit (CIC) in the Canyon Crest residential service area. This area has experienced the highest incidence of underground cable failures and prolonged power outages over the past 10 years, and was prioritized for cable replacement to enhance electric system reliability.

Proactive cable replacement in the Canyon Crest Area has been divided into five areas. This minimizes service disruptions to the highly populated apartments during construction. Intermittent electric service disruptions will be coordinated during construction and advanced outage notifications will be issued to customers.



Scope: Cable Replacement (Phase 1 of Canyon Crest Areas 2 and 3)

## **DISCUSSION:**

The scope of work will upgrade electric distribution facilities west of the 215 Freeway, south of LeConte Drive, north of Century Avenue and east of Alessandro Boulevard. The work includes the installation of approximately 7,665 feet of underground primary cable, three padmounted transformers and related electrical distribution facilities. The scope also includes the removal of 7,665 feet of aged primary electrical cable, removal of three transformers and related underground distribution facilities. The project will utilize the existing conduit system to replace aging cables and related facilities. No underground civil work is required as part of this project.

Phase 1 of the project will replace existing aging cable and related electric distribution facilities with new underground electric distribution facilities to improve system reliability and safety, improve power quality and electric service to customers in the area, and replace aging infrastructure that's beyond its useful life. The remaining cable to be replaced in Canyon Crest Areas 2 and 3 will be issued for construction at a later time under future phases. Replacement of deteriorated cables and related underground distribution facilities is identified as part of the Utility 2.0 Electric Infrastructure Road Map.

Riverside Public Utilities (RPU) engineering staff designed the project to eliminate any negative visual impacts to the project and surrounding area, with sensitivity to the existing neighborhood, and within City Planning guidelines for the designated area of the project. Electrical work will be completed by RPU field forces.

The project breakdown is proposed as follows:

<b>Project Breakdown</b>	
Engineering Performed By:	RPU engineering staff
Civil Construction Performed By:	None
Electrical Work Performed By:	RPU field forces
Anticipated Start Date:	February 2018
Anticipated Duration:	3 weeks
Coordination Required With:	RPU Field Superintendent
Reimbursements:	None

The breakdown for the total capital expenditure is as follows:

<b>Description</b>	<b>Amount (\$)</b>	<b>% of Total</b>
Design, Construction Management, Inspection	\$40,942.00	30%
Electric Construction Underground	\$86,417.00	64%
Electric Construction Contingency – 10% of Electric work	\$8,641.00	6%
<b>Total</b>	<b>\$136,000.00</b>	<b>100%</b>

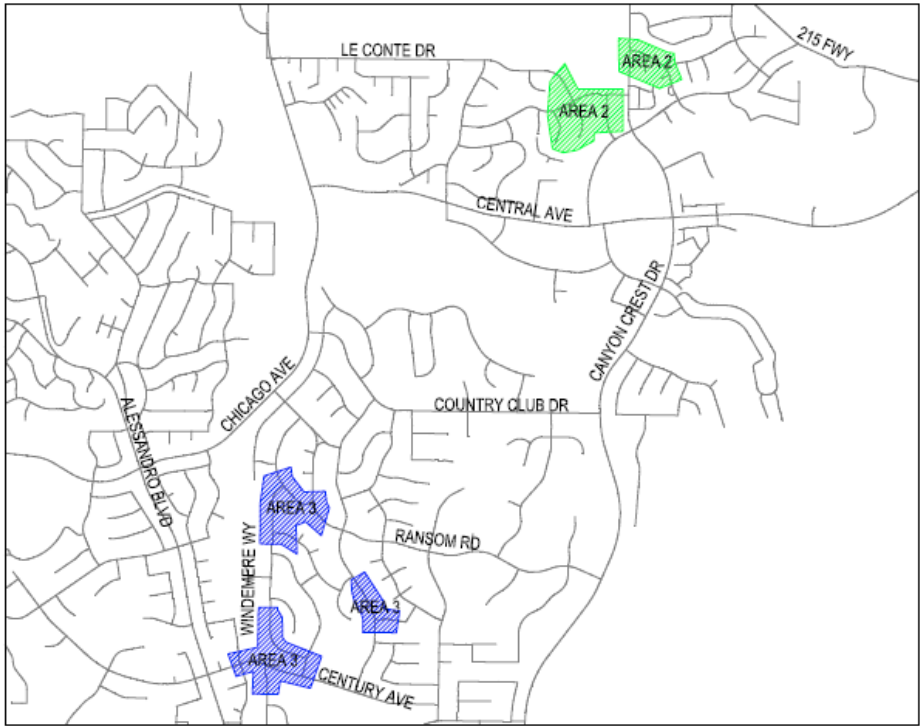
**FISCAL IMPACT:**

The total fiscal impact is \$136,000. Sufficient funds are available in Public Utilities Cable Replacement Capital Account No. 6130000-470635.

Prepared by: George Hanson, Utilities Assistant General Manager/Energy Delivery  
Approved by: Todd Jorgenson, Utilities Interim General Manager  
Approved by: John A. Russo, City Manager  
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability  
of funds: Laura M. Nomura, Utilities Assistant General Manager/Finance

Project Site Map



- AREA 2 PROJECT LOCATIONS
- AREA 3 PROJECT LOCATIONS



**CANYON CREST AREAS 2 AND 3, PHASE 1**  
**PARTIAL CABLE REPLACEMENT**  
**W.O. # 1813369**

