

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JUNE 25, 2018

ITEM NO: 14

SUBJECT: PLANNED ROUTINE CAPITAL PROJECTS OVER \$500,000 FOR ELECTRIC FOR FISCAL YEAR 2018-19 – \$19,300,000

ISSUE:

Receive report and presentation highlighting capital improvement projects over \$500,000 planned for Electric for fiscal year 2018-19 with a total budget of \$19,300,000.

RECOMMENDATION:

That the Board of Public Utilities receive this report highlighting planned Electric capital improvement projects over \$500,000 for a total of \$19,300,000 for fiscal year 2018-19.

BACKGROUND:

On May 14, 2018, the Board of Public Utilities (Board) voted to recommend that the City Council approve the Electric and Water annual Capital Improvement Program (CIP) budget funds for fiscal year (FY) 2018-19, including a capital outlay of \$19.3 million for the electric system. The City Council approved the annual budget for FY 2018-19 at their meeting on June 12, 2018.

DISCUSSION:

The attached presentation is to provide the Board with a highlight of the importance of the routine infrastructure projects over \$500,000 planned for FY 2018-19. Discussion of these projects at the beginning of the fiscal year will provide context and familiarity for Board regarding individual project actions throughout the fiscal year.

The projects include the following:

No.	Electric	Budget
E1	Cable Replacement (Canyon Crest Area 1F, Phase 2)	\$2,000,000
E2	Cable Replacement (Canyon Crest Area 2 & 3, Phase 2)	\$2,900,000
E3	4-12kV Conversion (Plaza Circuit 441)	\$2,000,000
E4	4-12kV Conversion (Plaza Circuit 448)	\$1,000,000
E5	Neighborhood Street Light Replacement Phase 3	\$2,100,000
E6	GO 165 Repair/Replacement-Overhead (Pole Replacement)	\$1,900,000

E7	GO 165 Repair/Replacement-Underground (Vault Rehab/Replacement)	\$2,000,000
E8	Substation Wall Expansion (Harvey Lynn Substation)	\$1,400,000
E9	Substation Switchgear Upgrades (Riverside & Orangecrest Substations)	\$4,000,000

E1 – Cable Replacement (Canyon Crest Area 1F, Phase 2)**E2 – Cable Replacement (Canyon Crest Area 2 & 3, Phase 2)**

Replacement of obsolete High Molecular Weight Polyethylene (HMPE) cable-in-conduit (CIC) in the Canyon Crest residential service area. Canyon Crest area residents experienced the highest incidence of cable failures of any area in the City over the past 10 years and have been prioritized first for cable replacement to enhance reliability. During the time of cable replacement, associated terminations and switching equipment will also be replaced and brought up to current standards.

E3 – 4-12kV Conversion (Plaza Circuit 441)**E4 – 4-12kV Conversion (Plaza Circuit 448)**

Conversion of circuitry in the Magnolia Center and Wood Streets areas from 4kV to the modern 12kV system. Area circuitry is 50-years old and modernization to current standard cable and associated equipment as well as implementation of advanced technology will improve circuit reliability and outage restoration time for area customers.

E5 – Neighborhood Street Light Replacement Phase 3

Installation of new concrete street light standards, light fixtures, and power feeds in the greater Wood Streets area. Standards and fixtures are replicas of the 90-year-old historical street light system. New fixtures are light emitting diode (LED) lights for energy efficiency.

E6 – GO 165 Repair/Replacement-Overhead (Pole Replacement)**E7 – GO 165 Repair/Replacement-Underground (Vault Rehab/Replacement)**

Replacement of 130 existing wood poles and repair/replacement of 20 underground vaults in various locations based upon the results of intrusive inspections. Detailed inspections identify poles and underground vaults which are at risk of failure and have the potential of becoming a public safety hazard and adversely affect the electric system's reliability.

E8 – Substation Wall Expansion (Harvey Lynn Substation)

Construction of a new perimeter block wall on the north and east sides of the station, expanding the footprint of the station in anticipation of the future site modernization and reconfiguration project. Substation replacements and upgrades benefit a large service area of customers (approximately 22,000 residents per substation) and also introduce new technology which improves reliability and reduces prolonged outages.

E9 – Substation Switchgear Upgrades (Riverside & Orangecrest Substations)

Replace aging and obsolete switchgear at Riverside and Orangecrest Substations. Substation replacements and upgrades benefit a large service area of customers (approximately 22,000 residents per substation) and also introduce new technology which improves reliability and reduces prolonged outages.

Subsequent approval of the above-identified projects will be considered by the Board at future meetings throughout FY 2018-19. Reports will reference this review by the Board.

FISCAL IMPACT:

There is no fiscal impact associated with this report. The availability of budgeted funds will be confirmed as individual project actions are considered by the Board throughout FY 2018-19.

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Attachment: Presentation