

REHABILITATION OF FOUR ELECTRICAL VAULTS AND MANHOLES

Riverside Public Utilities - Energy Delivery

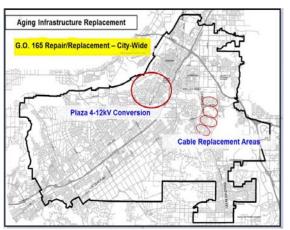
Board of Public Utilities September 25, 2017

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BACKGROUND

- 1. On July 10, 2017, the Board received and filed the planned routine capital project report for projects over \$500,000 for CIP 17/18
- 2. G.O. 165 Replacements-City-Wide was identified on the report
- Bid No. RPU 7495 includes four out six underground structures targeted for replacement this fiscal year

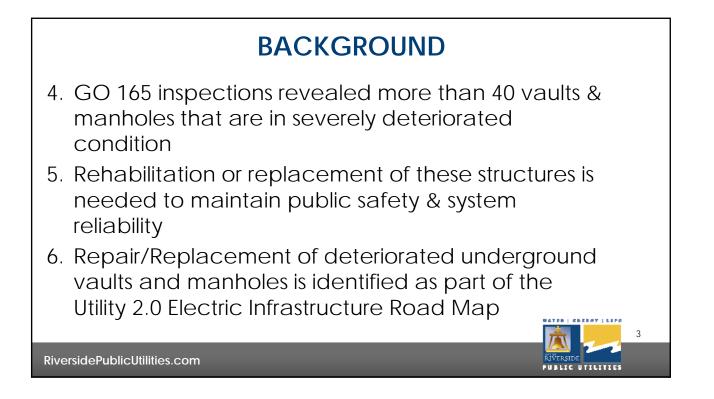


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PUBLIC UTILITIES

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BACKGROUND - PILOT PROJECT

- Rehabilitation or replacement of these structures is needed to maintain public safety & system reliability
- 2. Existing deteriorated underground vault with exposed rebar
- Rusted cable supports and hardware



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BACKGROUND - PILOT PROJECT

- 4. A pilot project conducted in February 2017 showcased the In-Place-Replacement of underground structures
- 5. Advanced composites mixed to repair and replace failing, cracked structures
- 6. The process extends the life of the structures by 50-60 years



UBLIC UTILITIES

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BACKGROUND - PILOT PROJECT

- 7. Cost Effective
- 8. Sustainable
- 9. Requires no street excavation
- 10. Requires no planned electric service outages





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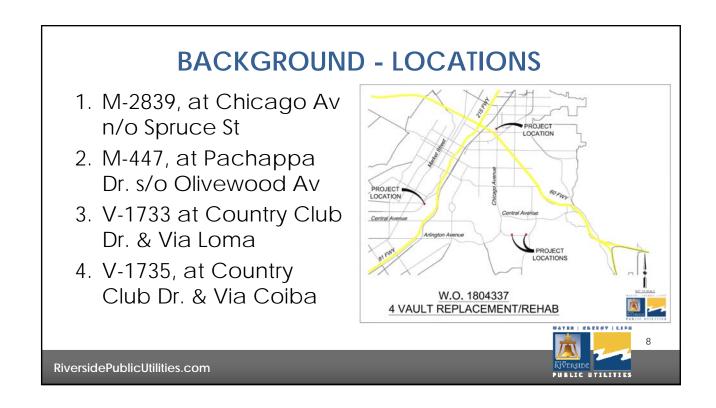
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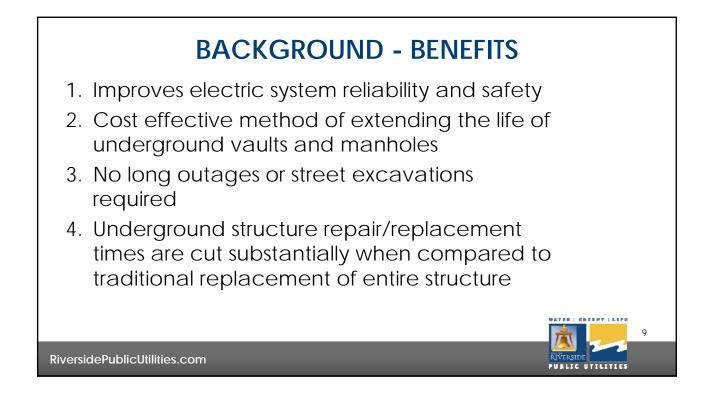
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BACKGROUND - SCOPE

- 1. Rehabilitate two (2) underground vaults
- 2. Rehabilitate two (2) underground manholes
- 3. RPU crews to move equipment & cables away from interior walls
- 4. Coordinate with Public Works on Traffic Control
- 5. 6-8 weeks to complete work







DISCUSSIC	DN - CONT	RACT BID	S	
1. June 30 th , 2017 – RP 2. August 9 th , 2017 – RF		•		
Vendors	City Location	Bid Amount	Rank	
1. Henkel's & McCoy	Pomona, CA	\$465,539.00	1	
> Proje	ct Engineer's Estimate:	\$400,000.00		
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Description	Amount (\$)	% of Total
Design, Construction Management, Inspection Contingency	' \$51,554	9%
Construction Contract	\$465,539	84%
Electric Construction Underground	\$39,907	7%
Tota	: \$557,000	100%

