



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 27, 2025

SUBJECT: CIRCUIT 1287 RELIABILITY IMPROVEMENT PROJECT – WORK ORDER NO. 2512347 FOR A TOTAL CAPITAL EXPENDITURE OF \$870,000

ISSUE:

Consider approval of Work Order No. 2512347 for a total capital expenditure of \$870,000 for Circuit 1287 Reliability Improvement Project.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 2512347 for a total capital expenditure of \$870,000 for Circuit 1287 Reliability Improvement Project.

BACKGROUND:

As part of our ongoing efforts to enhance system reliability, operational flexibility, and overall grid resilience, Riverside Public Utilities (RPU) Electric System Planning staff performed a reliability study to improve the performance of electric distribution Circuit 1287. Circuit 1287 has experienced reliability issues which involve several undersized conductor segments. In many cases, these constrained segments not only limit operational flexibility but also do not meet current design and construction standards.

The study recommends upgrading undersized conductor segments - portions of the line that currently lack sufficient capacity to support reliable power flow. These limitations hinder our ability to transfer load efficiently during outages or switching operations. Many of these conductors no longer meet the demands of today's system. Reconductoring and upgrading these segments will not only modernize the infrastructure but also significantly enhance thermal and voltage performance, and strengthen long-term system reliability.

To maximize impact, circuit selection has been prioritized using historical reliability data, with a focus on the worst-performing circuits and locations with limited switching flexibility.

DISCUSSION:

The scope of work for this project includes the replacement and installation of eight (8) wooden poles, two (2) switches, two (2) transformers, and related overhead distribution facilities. The

project will also include the replacement of approximately 18,688 linear feet of old wires and associated components.

The project will upgrade electrical distribution facilities on Circuit 1287 within the neighborhoods of La Sierra Hills, La Sierra Acres, and Arlanza. In addition to reconductoring undersized segments along circuit 1287, the project will also address undersized conductors on 1287's tie points, specifically key sections on Circuits 1283, 1284, and 1295. These tie points are essential for enabling effective load transfers and fault isolation. Upgrading them is critical to fully realize the operational and reliability benefits of the improvements on Circuit 1287.

RPU electric field crews will perform the construction of this project, and no civil underground electric work is planned. Intermittent electric service disruptions will be coordinated during construction and advanced outage notifications will be issued to minimize the impacts to customers.

The project/fiscal breakdown is as follows:

Work Order No. 2512347 (Circuit 1287)

Work Type	Performed By:			Amount (\$):	% of Total:
Design	RPU Engineering	\$82,821.52			10%
Electrical Work	RPU Field Forces	Labor	\$577,959.50	\$787,178.48	90%
		Equipment	\$97,043.20		
		Materials	\$112,175.78		
Work Order Total:	\$870,000.00			100%	
Anticipated Start Date:	January 2026				
Anticipated Duration:	21 weeks				

The Work Order Total above is, in effect, the Engineer's Estimate for this project since it is an in-house project being designed and constructed by Public Utility staff.

FISCAL IMPACT:

The total fiscal impact is \$870,000. Sufficient funds are available in Public Utilities Electric Capital Account No. 6130000-470655.

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 Approved by: David A. Garcia, Utilities General Manager
 Certifies availability of funds: Kristie Thomas, Finance Director/Assistant Chief Financial Officer
 Approved by: Rafael Guzman, Assistant City Manager
 Approved as to form: Rebecca McKee-Reimbold, Interim City Attorney

Attachments:

1. Project Site Map
2. Presentation