



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 22, 2019

ITEM NO: 4

SUBJECT: WORK ORDER NO. 1917203 FOR AUTO CENTER RELIABILITY PROJECT PHASE 1 IN THE AMOUNT OF \$250,000

ISSUE:

Approve Work Order No. 1917203 for the Auto Center Reliability Project Phase 1 in the amount of \$250,000.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1917203 in the amount of \$250,000 for the Auto Center Reliability Project Phase 1.

BACKGROUND:

Riverside Public Utilities (RPU) Electric System Planning staff performed a reliability study to improve performance in the Auto Center area due to numerous outages associated with Circuit 1351 within the past year. The Auto Center reliability study identified system risks that could result in additional outages and recommended the implementation of appropriate system enhancements to reduce outage duration and outage frequency, improve time to identify and communicate fault locations and fault isolations, reduce or eliminate travel time to fault locations, and to improve communication to customers during outages.

In response, staff has recommended the installation of grid sensors and automatic reclosers on sections of Circuit 1351 as part of the overall improvements. The grid sensors remotely monitor circuits for faults and outages and report directly to the Grid Control Center (or Dispatch), reducing the response time for troubleshooters and electric field crews, thereby reducing outage duration and improving overall system reliability. The devices are pole-mounted circuit breakers equipped with a mechanism that can automatically open to clear a fault, preventing the substation circuit breaker from interrupting the entire circuit. The automatic recloser may also test the line and restore service after clearing a temporary fault.

DISCUSSION:

The scope of work for this project includes the installation of grid sensors on two (2) overhead poles and the installation of automatic reclosers on two (2) additional overhead poles for distribution automation.

The location of these poles are within the vicinity of Indiana Avenue between Madison and Monroe Streets, on Circuit 1351.



Automatic Recloser



Grid Sensor

RPU engineering staff performed the design to eliminate any negative visual impacts to the project and surrounding area, with sensitivity to the existing customers, and within City Planning guidelines for the designated area of the project.

The project/fiscal breakdown is proposed as follows:

Project and Fiscal Breakdown		
Work Type	Performed By:	Amount (\$)
Project Management and Engineering	RPU Engineering	\$5,000
Electrical Work	RPU Field Forces	\$217,273
Design		\$5,000
Contingency (10%)		\$22,727
Work Order Total:		\$250,000
Anticipated Start Date:		May 2019
Anticipated Duration:		4 Weeks

FISCAL IMPACT:

The total fiscal impact is \$250,000. Sufficient funds are available in Public Utilities Electric Capital Account No. 6130000-470655.

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Approved by: Todd M. Corbin, Utilities General Manager
Approved by: Al Zelinka, FAICP, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability
of funds: Aileen Ma, Interim Utilities Assistant General Manager/Finance & Administration

Attachments: Project Site Map