

## **MULTI-SUBSTATION 69KV CIRCUIT BREAKER REPLACEMENT PROJECT – INCREASE INITIAL CAPITAL EXPENDITURE OF WORK ORDER NO. 1906356 FROM \$3,500,000 TO \$6,500,000**

### **Riverside Public Utilities**

Board of Public Utilities  
February 22, 2021

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## **BACKGROUND**

1. On September 23, 2019, the Board approved Work Order No 1906356 in the amount of \$3,500,000 for the Multi-substation Breaker Replacement Project.
2. The report noted that the total project expenditure was \$7,636,200 and staff would return to the Board in the next two fiscal years for amount increase approval.

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## BACKGROUND

1. Scope of work includes replacing (24) 69kV circuit breakers and foundations and upgrading associated auxiliary systems, wiring, and automation systems.



Typical Oil Circuit Breaker  
(Aged Unit)



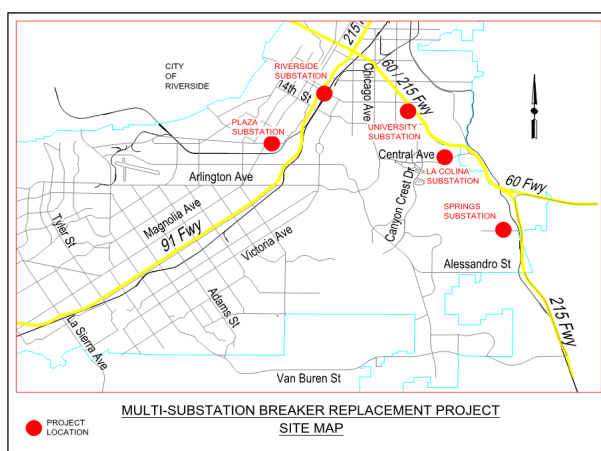
Typical Vacuum Circuit Breaker  
(Replacement Unit)

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## BACKGROUND – WORK MAP



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## DISCUSSION

1. Completed 40% of design, 15% of construction and 50% of procurement.
2. The initial approved Work Order amount is projected to be depleted by April 2021.
3. Requesting an increase in the work order amount from \$3,500,00 to \$6,500,000.



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## PROJECT BREAKDOWN

WORK TYPE	PERFORMED BY:	AMOUNT (\$)
Fabrication/Delivery of 69kV Power Circuit Breaker per RFB No. SUB-836	V&S Schuler	\$2,170,143.00
Consultant Design Services per RFP No. 1864	Leidos Engineering, LLC	\$970,427.00
Parts, Material and Equipment Rentals	Miscellaneous Vendors (TBD)	\$800,000.00
Project Management and Engineering	Riverside Public Utilities	\$532,000.00
Construction, Factory Testing, Field Testing and Commissioning	Riverside Public Utilities	\$2,800,000.00
Contingency (5%)		\$363,630.00
<b>Work Order Total:</b>		<b>\$7,636,200.00</b>
<b>Anticipated Start Date:</b>		<b>February 2020</b>
<b>Anticipated Duration:</b>		<b>December 2022</b>

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## PROJECT BUDGET

Description of Work	Approval Request Date	Fiscal Year	Amount (\$)
Twelve (12) Power Circuit Breaker	9/23/2019	2019/20	\$3,500,000
Nine Nine (9) Power Circuit Breaker	2/8/2021	2020/21	\$3,000,000
Three (3) Power Circuit Breaker	TBD	2021/22	\$1,136,200
Work Order Total			\$7,636,200

## RECOMMENDATION

That the Board of Public Utilities approve an increase to Work Order No. 1906356 from \$3,500,000 to \$6,500,000.