



# HUNTER SUBSTATION REPLACEMENT PROJECT

Riverside Public Utilities

Board of Public Utilities  
January 14, 2019

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## BACKGROUND EXISTING HUNTER SUBSTATION

### Existing Hunter Substation

1. Located on Chicago Ave., north of Marlborough Ave
2. Serves 4,700 customers
3. Built in 1960 (One of the oldest substations)



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## BACKGROUND EXISTING HUNTER SUBSTATION

1. High risk of equipment failure in service
2. (Circuit breaker 52-3)
3. Seismic deficiencies
4. Operational limitation
5. Near maximum capacity
6. Substation exceeded its design life



Circuit BRK 52-3

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## BACKGROUND EXISTING HUNTER SUBSTATION



RPU is planning on replacing Hunter Substation to ensure reliable and safe electrical service

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## DISCUSSION LAND ACQUISITION

1. Existing substation space limitation
2. Limited capacity in nearby substations
3. Board approved purchase of adjacent land in February 12, 2018
4. The new substation will be constructed on the newly acquired land



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## DISCUSSION NEW SUBSTATION

1. Four sub-transmission lines
2. Four substation transformers
3. 16 distribution circuits
4. Total planned capacity of 125MVA



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## DISCUSSION IMPROVEMENT

1. Hunter Substation will help Riverside Public Utilities meet existing power demands, future development in the area, and maintain power reliability
2. Project will help maintain a stable level of electric service in the area during the event of a major power shutdown or service disruption

## DISCUSSION PROJECT PHASES

- **Phase 1**: Complete CEQA, preliminary design and prepare EPC bid package by August 2019
- **Phase 2**: Award contract by November of 2019
- **Phase 3**: Commissioned by December of 2022

## PROJECT BREAKDOWN

DESCRIPTION	AMOUNT
Engineering and Project Management by RPU	\$500,000
Owner Engineer (Preliminary designs, CEQA, inspection services, construction management)	\$1,500,000
Construction Contract	TBD
<b>Work Order Total</b>	<b>\$2,000,000</b>

*Staff will return to the Board for approval of the construction phase in November 2019.*

## RECOMMENDATION

That the Board of Public Utilities approve Work Order No. 1826767 in the total amount of \$2,000,000 for work associated with the Hunter Substation Replacement Project.