



Arts & Innovation

Riverside Public Utilities

Board of Public Utilities

September 4, 2015

**Planned Routine Electric and Water
Capital Projects Estimated at \$500,000
and Over for Fiscal Year 2015/16**

Electric Utility



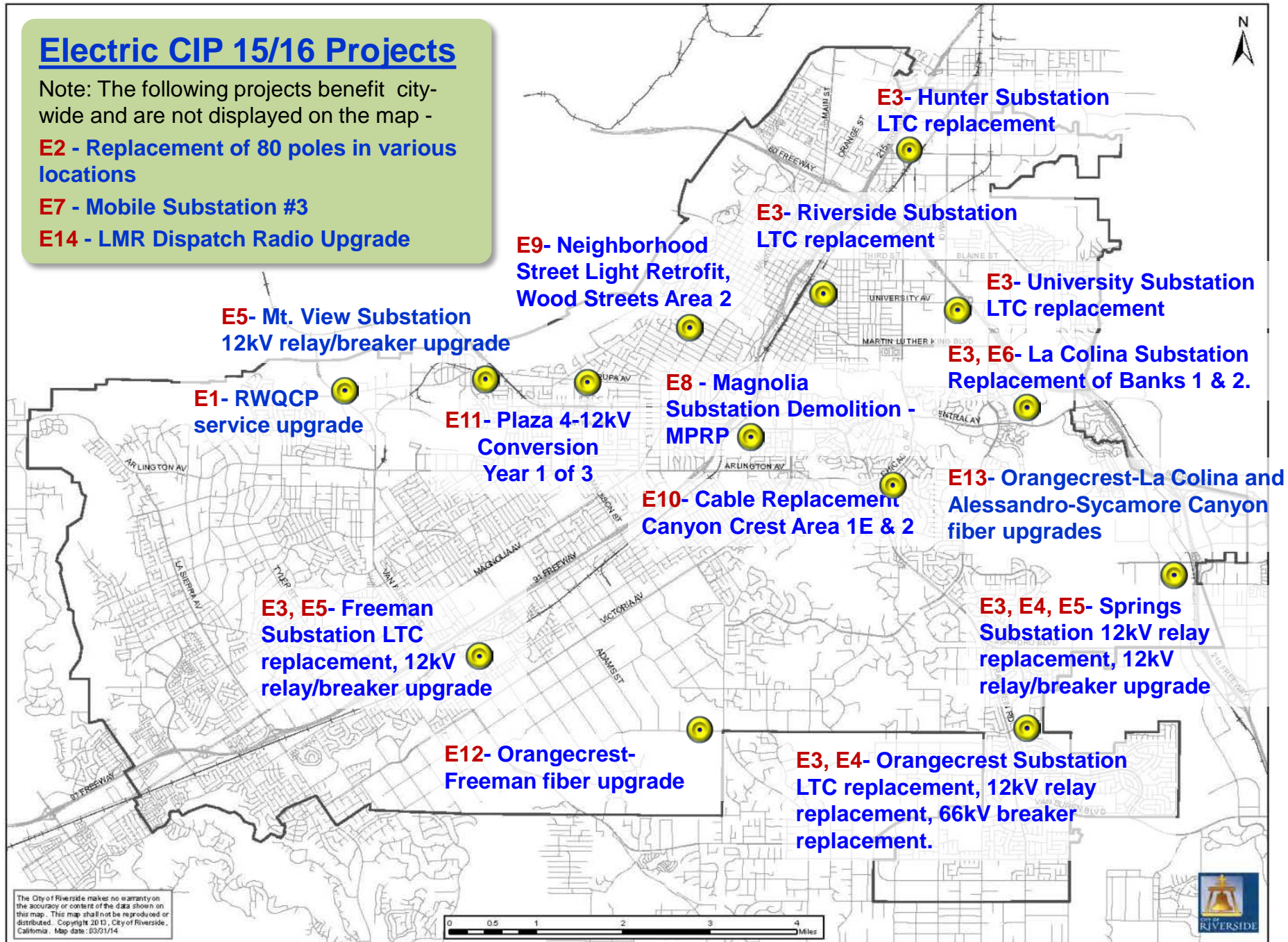
Electric CIP 15/16 Projects

Note: The following projects benefit city-wide and are not displayed on the map -

E2 - Replacement of 80 poles in various locations

E7 - Mobile Substation #3

E14 - LMR Dispatch Radio Upgrade



Service Upgrades

**Distribution Line
Extensions**



Transformers

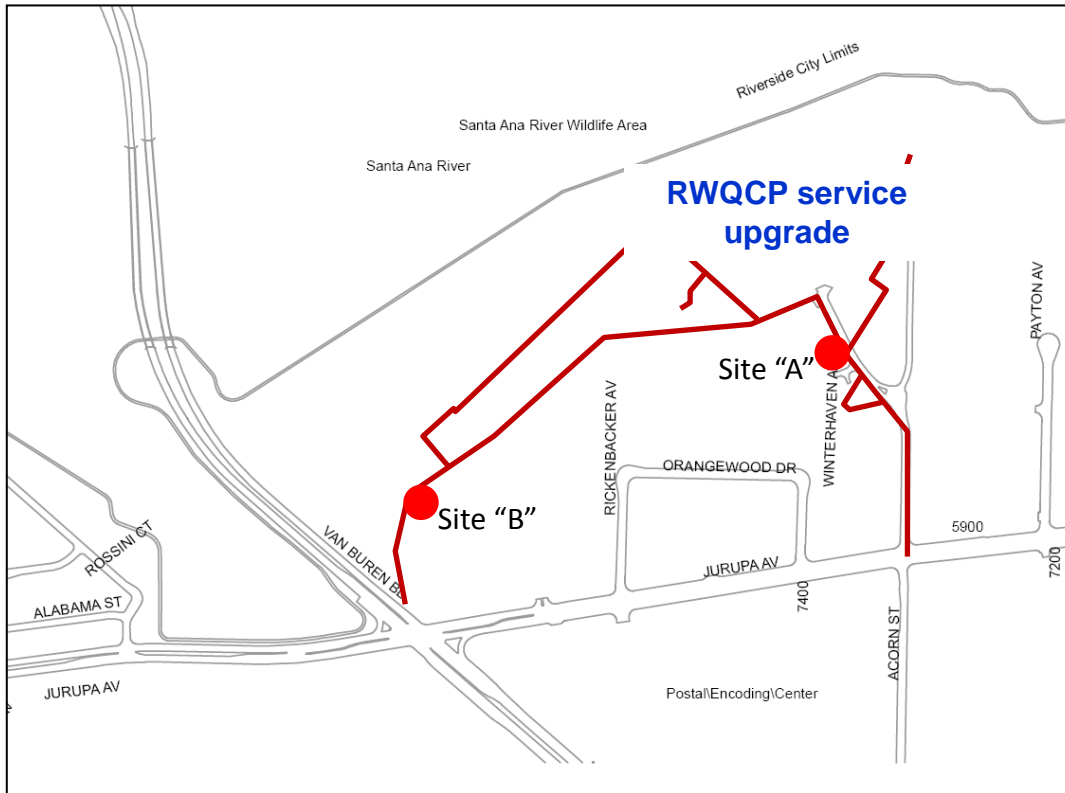


Services



FY 15-16 Projects

Service Upgrades



- Riverside Water Quality Control Plant (RWQCP) service upgrade.
- Estimated Project Cost - **\$700,000**
- Ward – 3
- Map location – **E1**

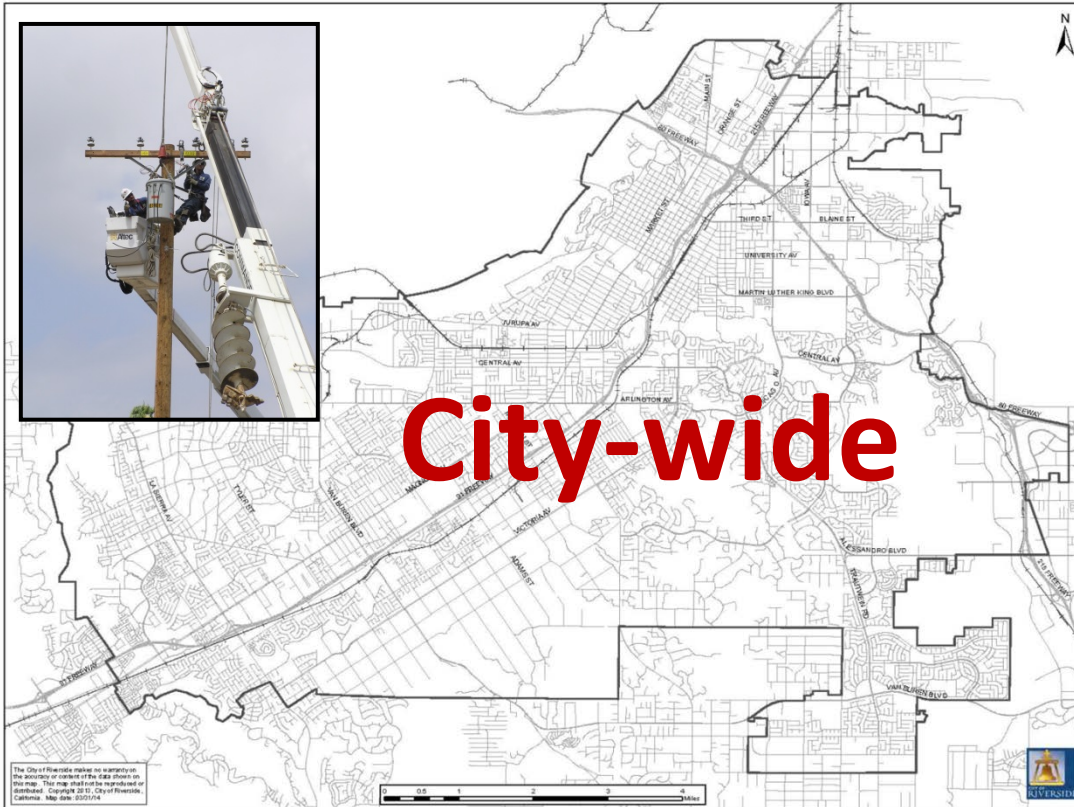
G.O. 165 Repair/Replacement



**Infrastructure
repair/replacement
Via vista Dr.**

FY 15-16 Projects

G.O. 165 Repair/Replacement



- Replacement of 80 poles at various locations throughout the City as a result of intrusive pole inspections.
- Estimated Project Cost - **\$1,200,000**
- Ward – All
- Map location – **(E2) City-wide**

FY 2015/16 Proposed CIP Budget – Electric Utility

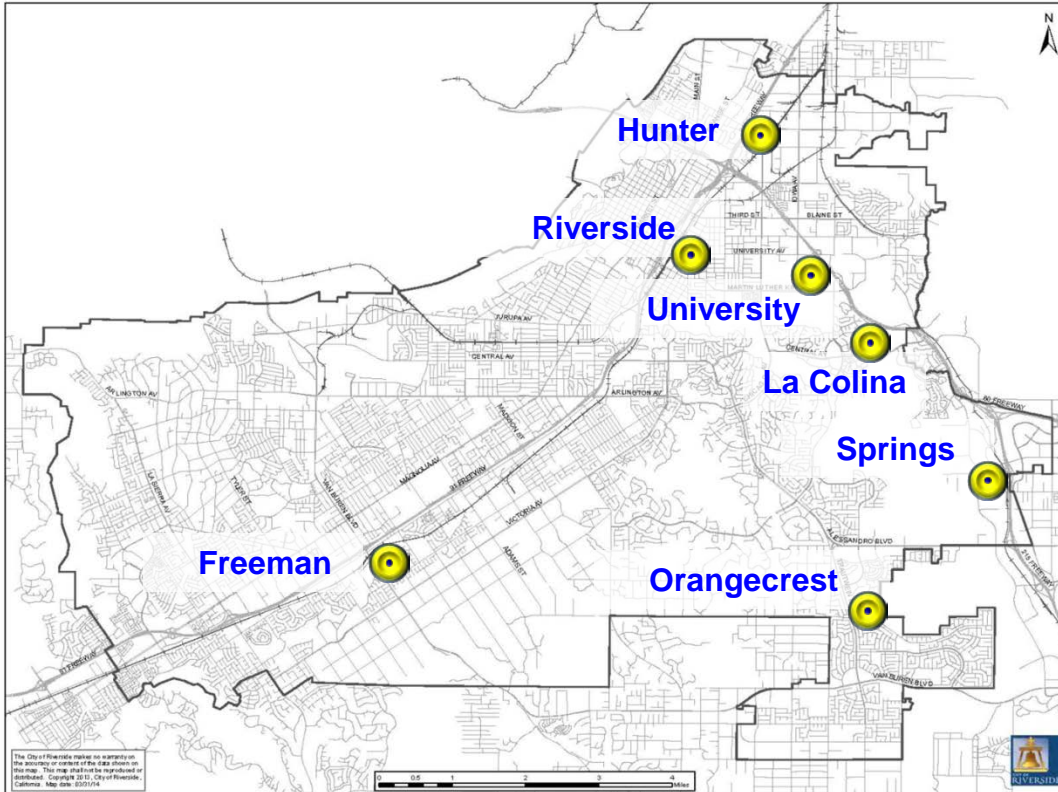
Substation Bus & Upgrades



Substation Equipment Upgrades

FY 15-16 Projects

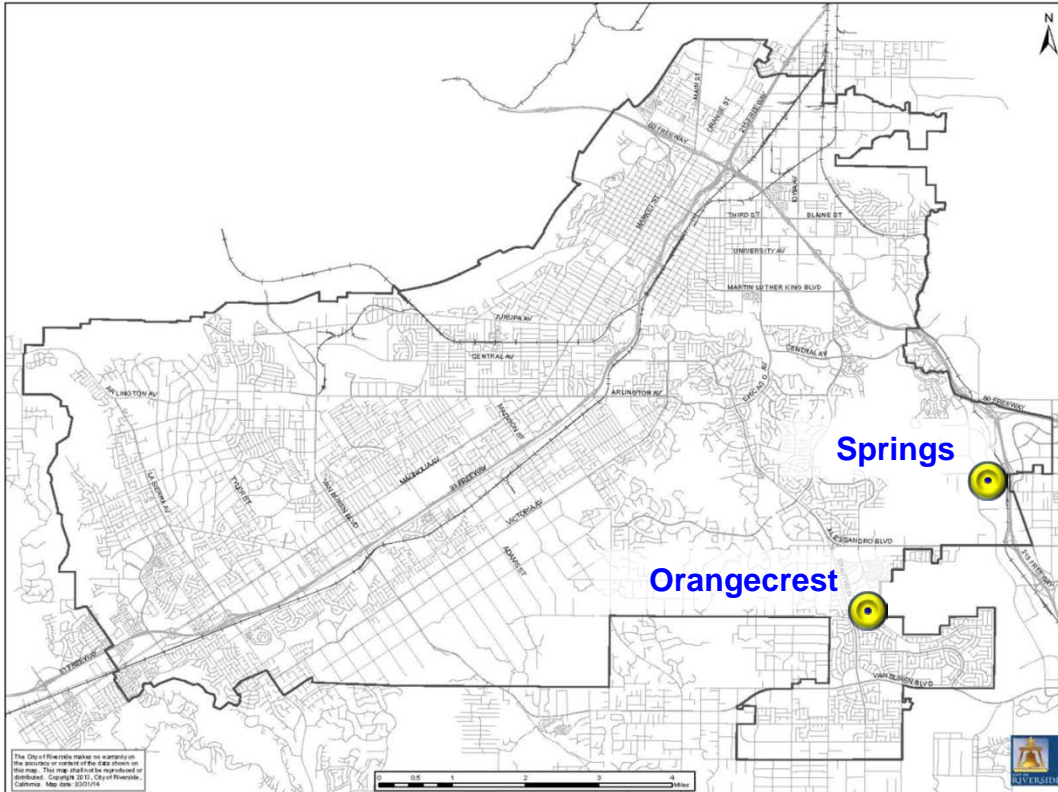
Substation Bus & Upgrades



- LTC replacement – Freeman, Hunter, Orangecrest, La Colina, Springs, Riverside, University.
- Estimated Project Cost - **\$3,200,000**
- Ward – 1,2,4,5
- Map location – **E3**

FY 15-16 Projects

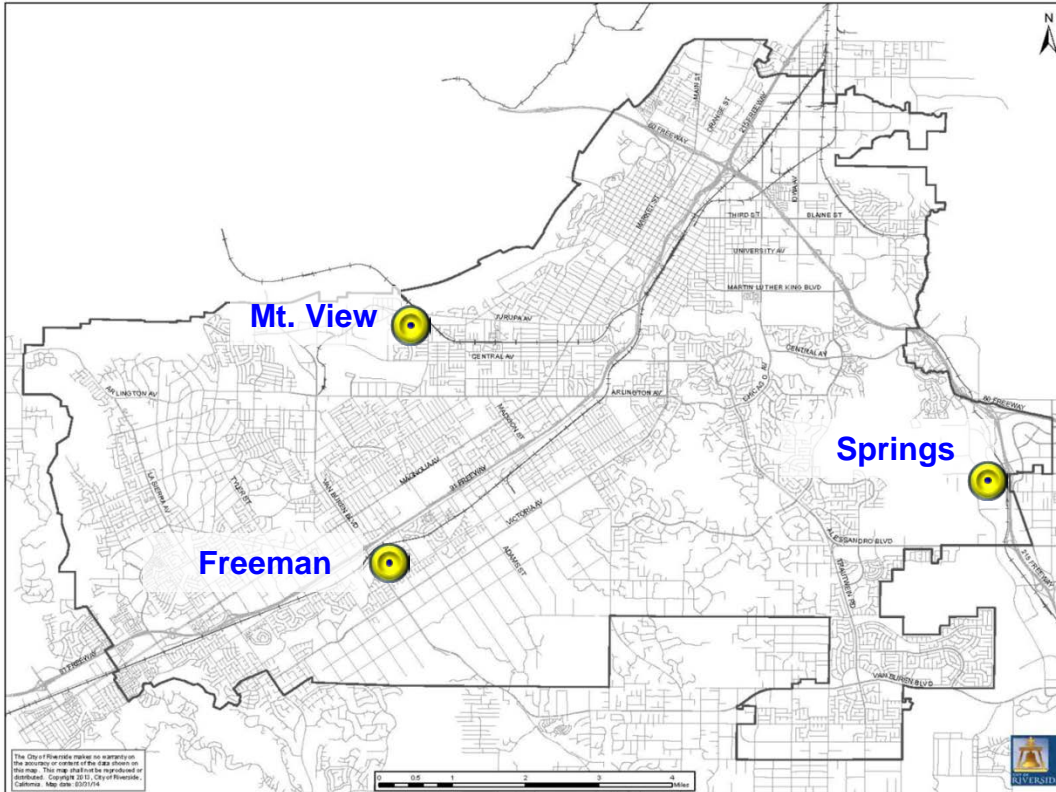
Substation Bus & Upgrades



- 12kV relay replacement and breakers – Springs, Orangecrest.
- Estimated Project Cost - **\$1,550,000**
- Ward – 2,4
- Map location – **E4**

FY 15-16 Projects

Substation Bus & Upgrades



- 12kV Relay and breaker upgrade – Freeman, Mt. View, Springs.
- Estimated Project Cost - **\$3,000,000**
- Ward – 2,3,5
- Map location – **E5**

Substation Transformer Additions



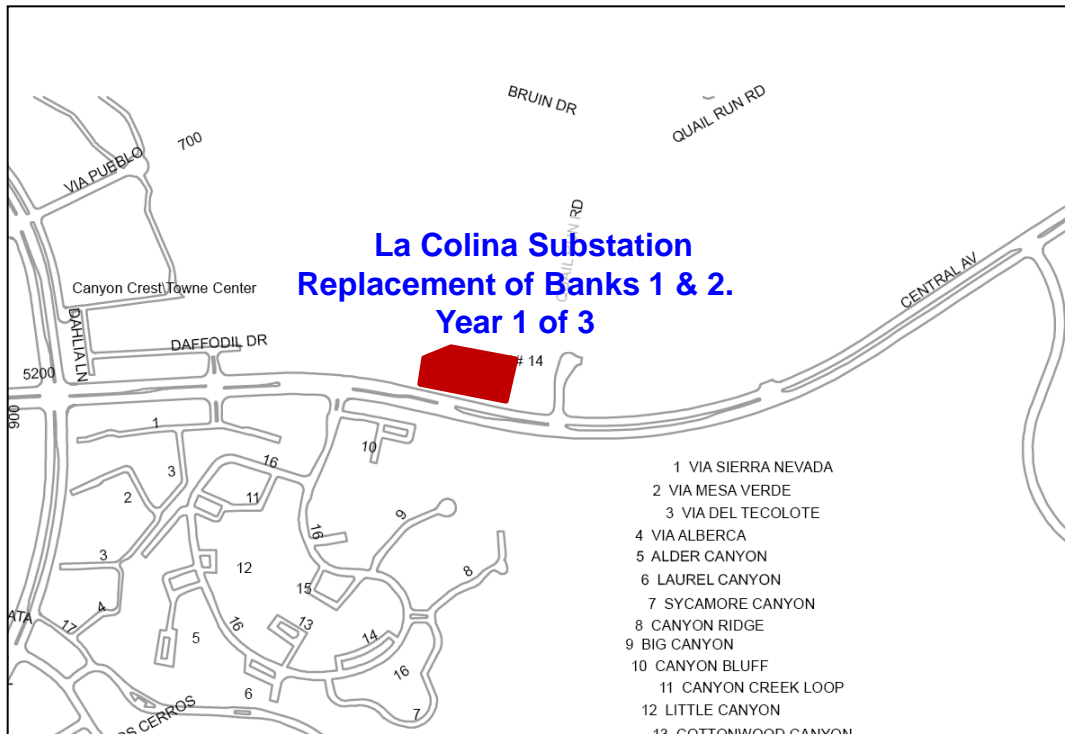
Plaza Substation Power Pit Construction (MPRP Project)



Rendering of Plaza Substation following transformer addition and improvements.

FY 15-16 Projects

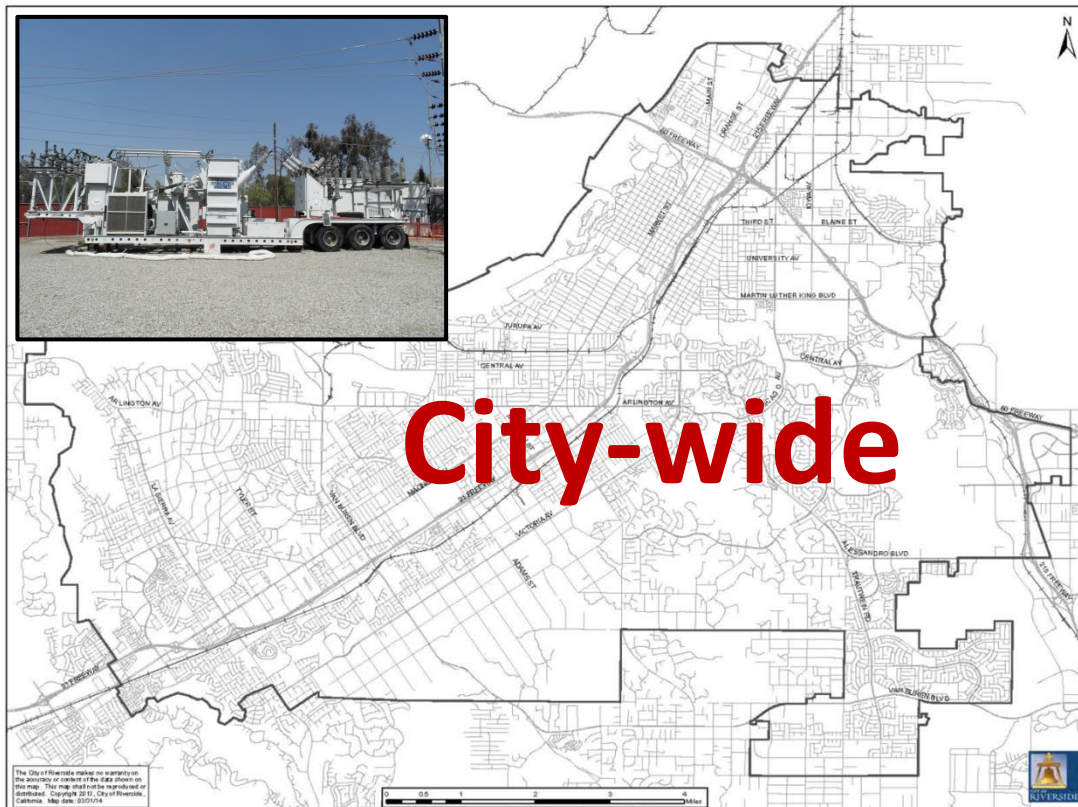
Substation Transformer Addition



- La Colina Substation Switchgear 5 & 6, replacement of existing Banks 1 & 2. Year 1 of 3
- Estimated Project Cost - **\$2,000,000 for the Fiscal year 2015/2016**
- Ward – 2
- Map location – **E6**

FY 15-16 Projects

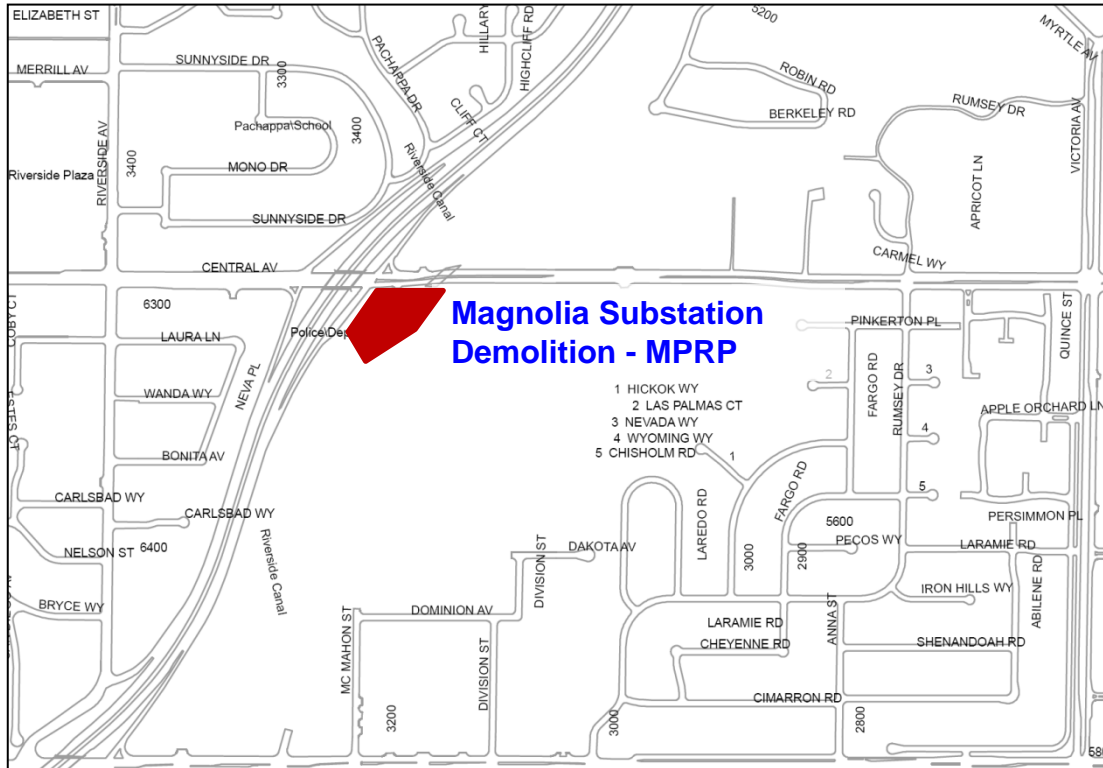
Substation Transformer Addition



- Mobile Substation #3.
- Estimated Project Cost - **\$2,000,000**
- Ward – All
- Map location – **(E7) City-wide**

FY 15-16 Projects

Substation Transformer Addition



- Magnolia Substation demolition-MPRP.
- Estimated Project Cost - **\$500,000**
- Ward – 3
- Map location – **E8**

Street Lights Neighborhood Retrofit

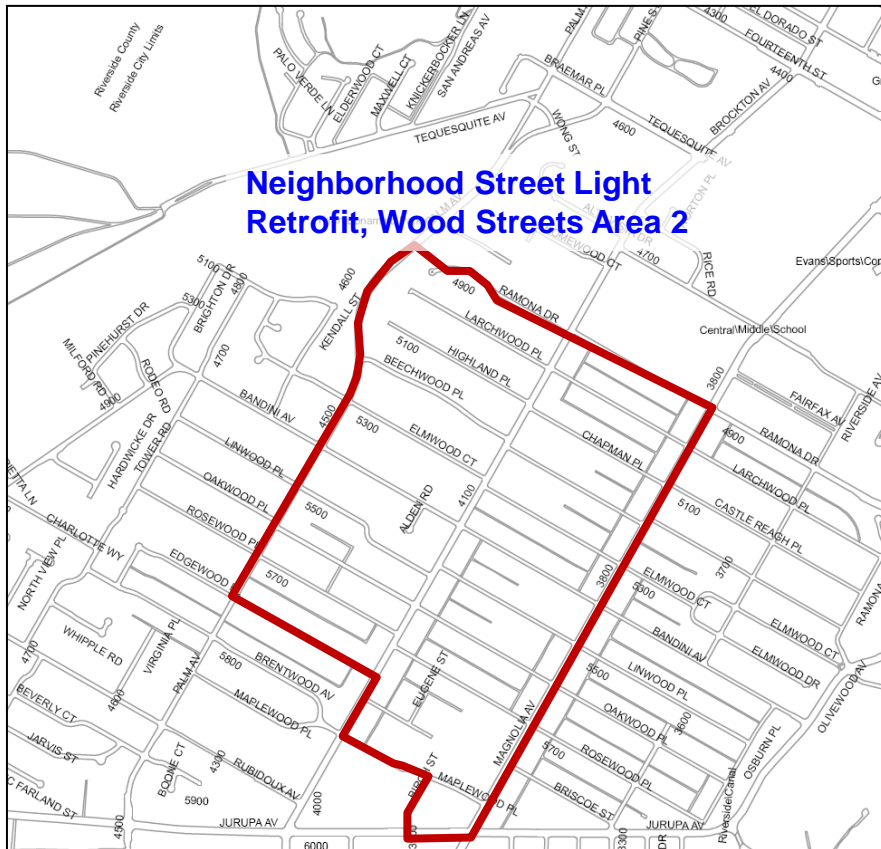


**Wood Streets
Street Light Project**



FY 15-16 Projects

Street Lights



- Neighborhood street light retrofit – Wood Streets Area 2.
- Estimated Project Cost - **\$1,900,000**
- Ward – 1
- Map location – **E9**

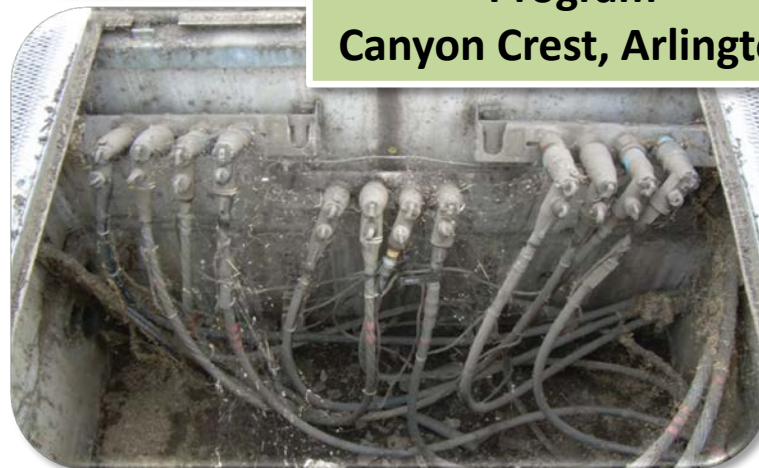
Aging Infrastructure Replacement



**4-12kV Conversion Program
Magnolia Substation Service Area
(MPRP)**

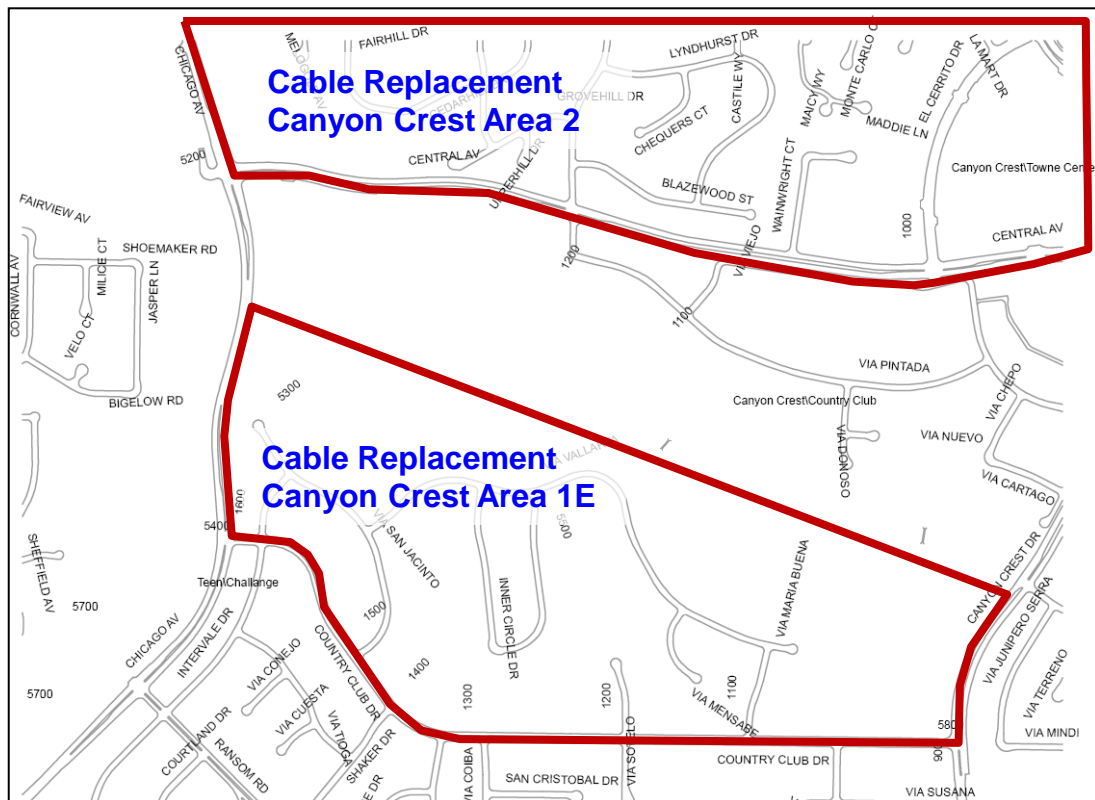


**Cable Replacement
Program
Canyon Crest, Arlington**



FY 15-16 Projects

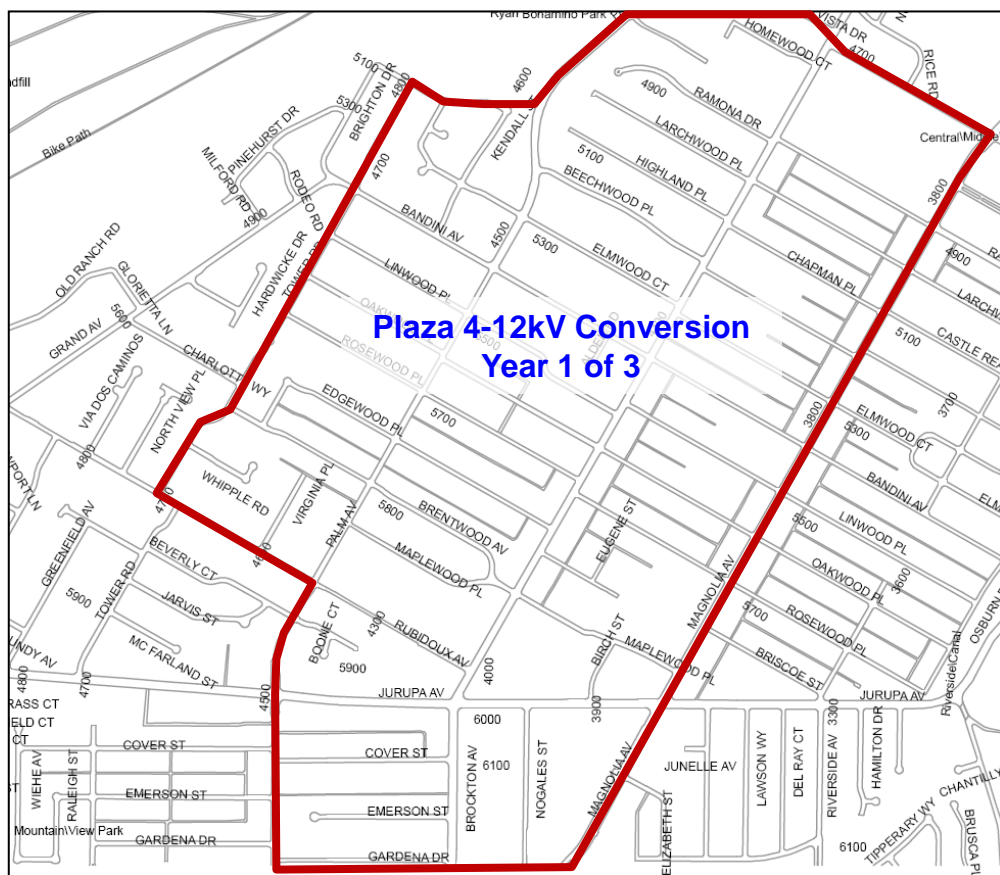
Aging Infrastructure Replacement



- Cable replacement – Canyon Crest Area 1E & 2.
- Estimated Project Cost - **\$3,747,000**
- Ward – 2
- Map location – **E10**

FY 15-16 Projects

Aging Infrastructure Replacement



- Plaza 4-12kV conversion – Year 1 of 3.
- Estimated Project Cost - **\$1,325,000**
- Ward – 3
- Map location – **E11**

FY 2015/16 Proposed CIP Budget – Electric Utility

City-Wide Communications



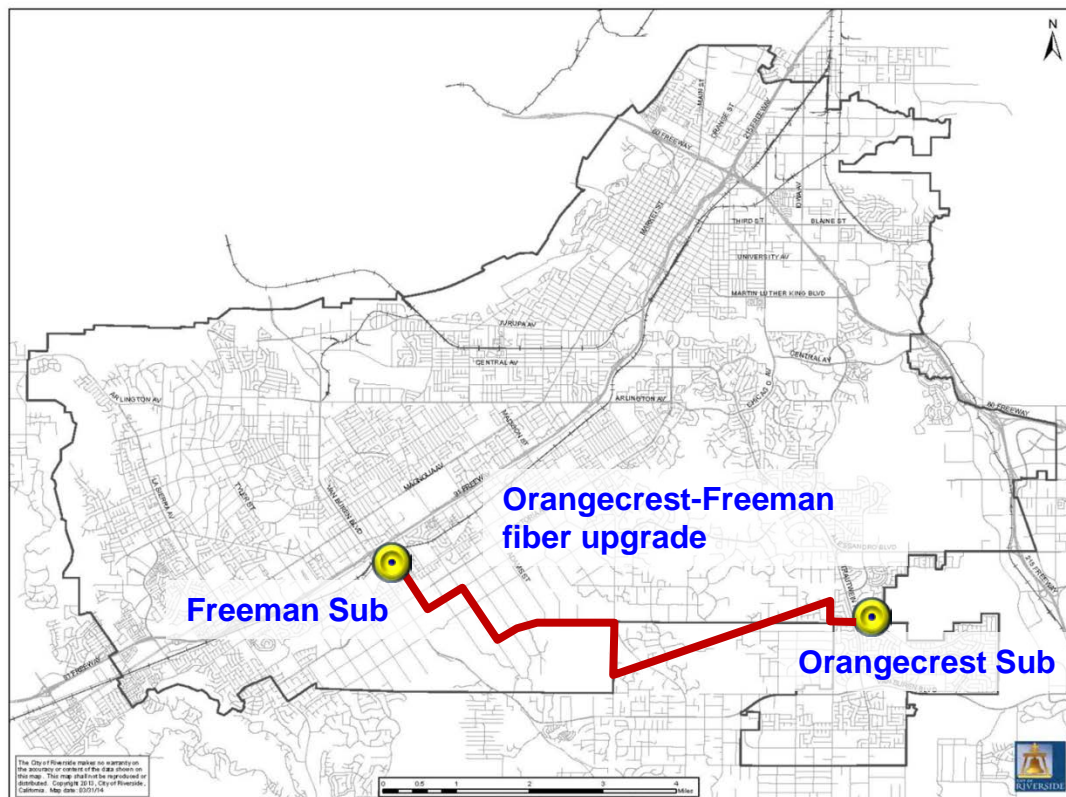
**LMR – Dispatch
Radio Upgrade**



Additional Fiber Paths

FY 15-16 Projects

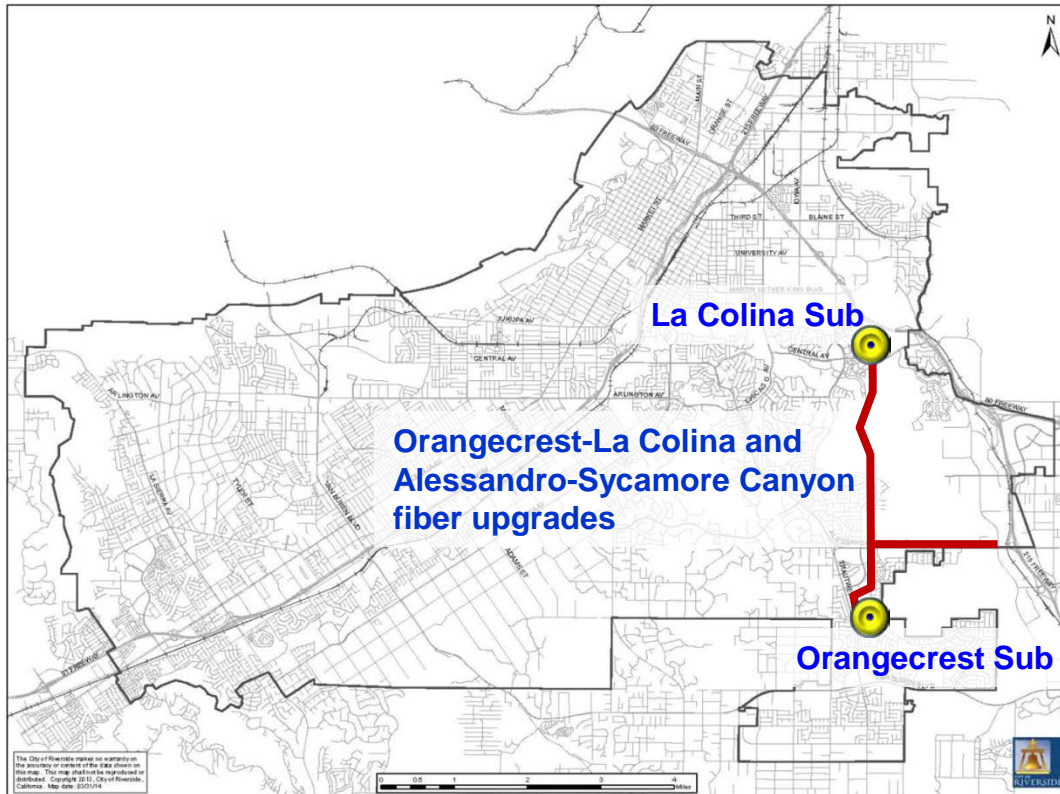
City-wide Communication Network



- Orangecrest-Freeman fiber upgrade.
- Estimated Project Cost - **\$1,400,000**
- Ward – 4,5
- Map location – **E12**

FY 15-16 Projects

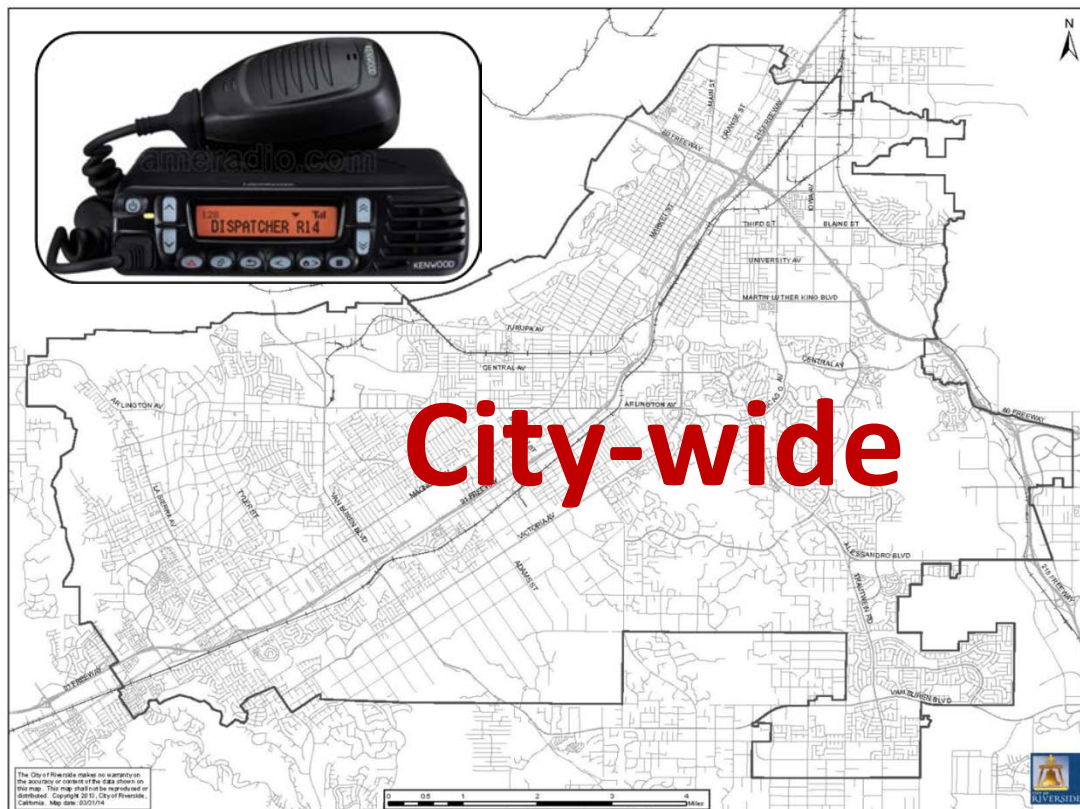
City-wide Communication Network



- Orangecrest-La Colina and Alessandro-Sycamore Canyon fiber upgrades.
- Estimated Project Cost - **\$1,250,000**
- Ward – 2,4
- Map location – **E13**

FY 15-16 Projects

City-wide Communication Network



- LMR-Dispatch radio upgrade.
- Estimated Project Cost - **\$1,700,000**
- Ward – All
- Map location – **(E14)**
City-wide

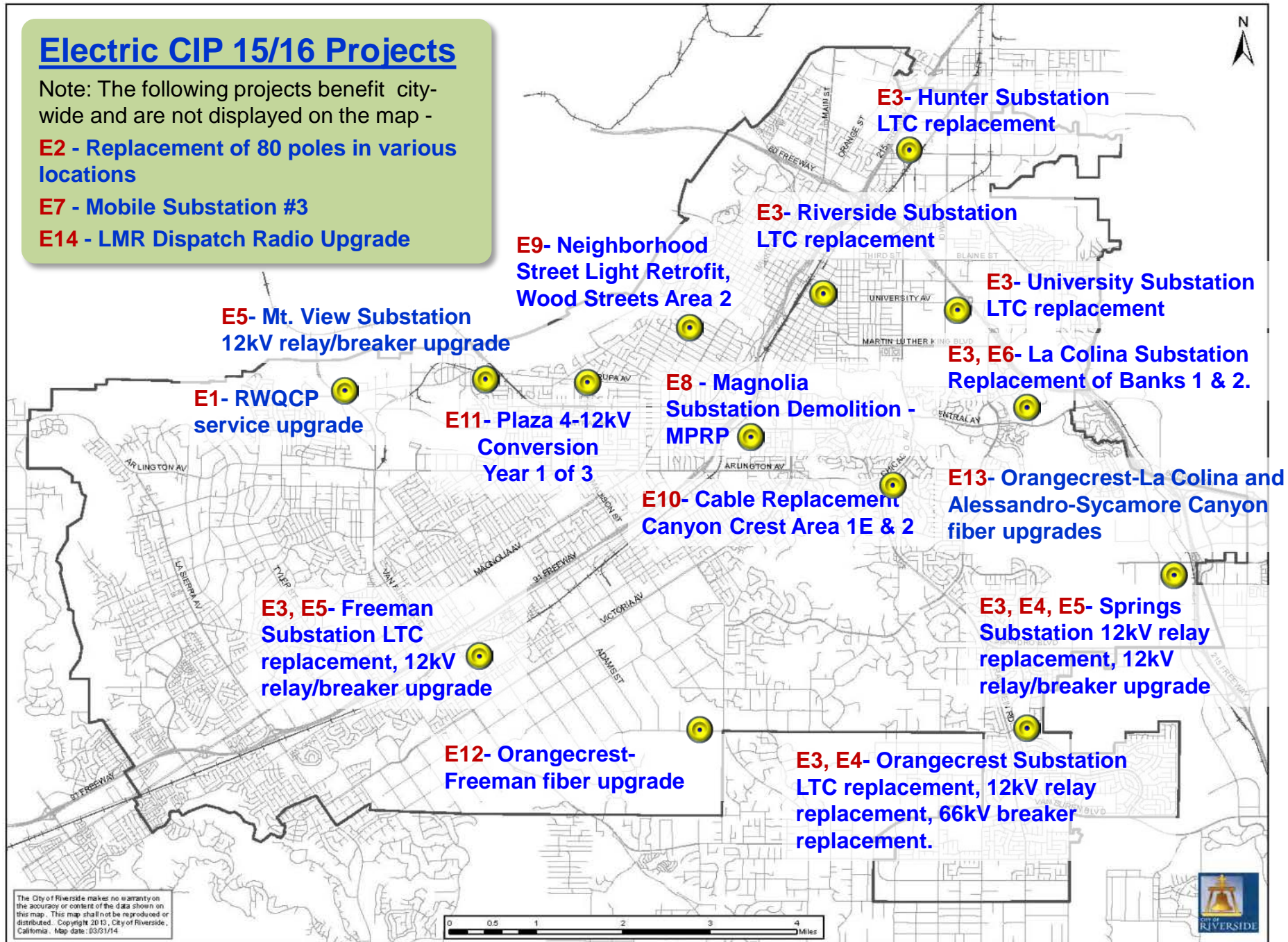
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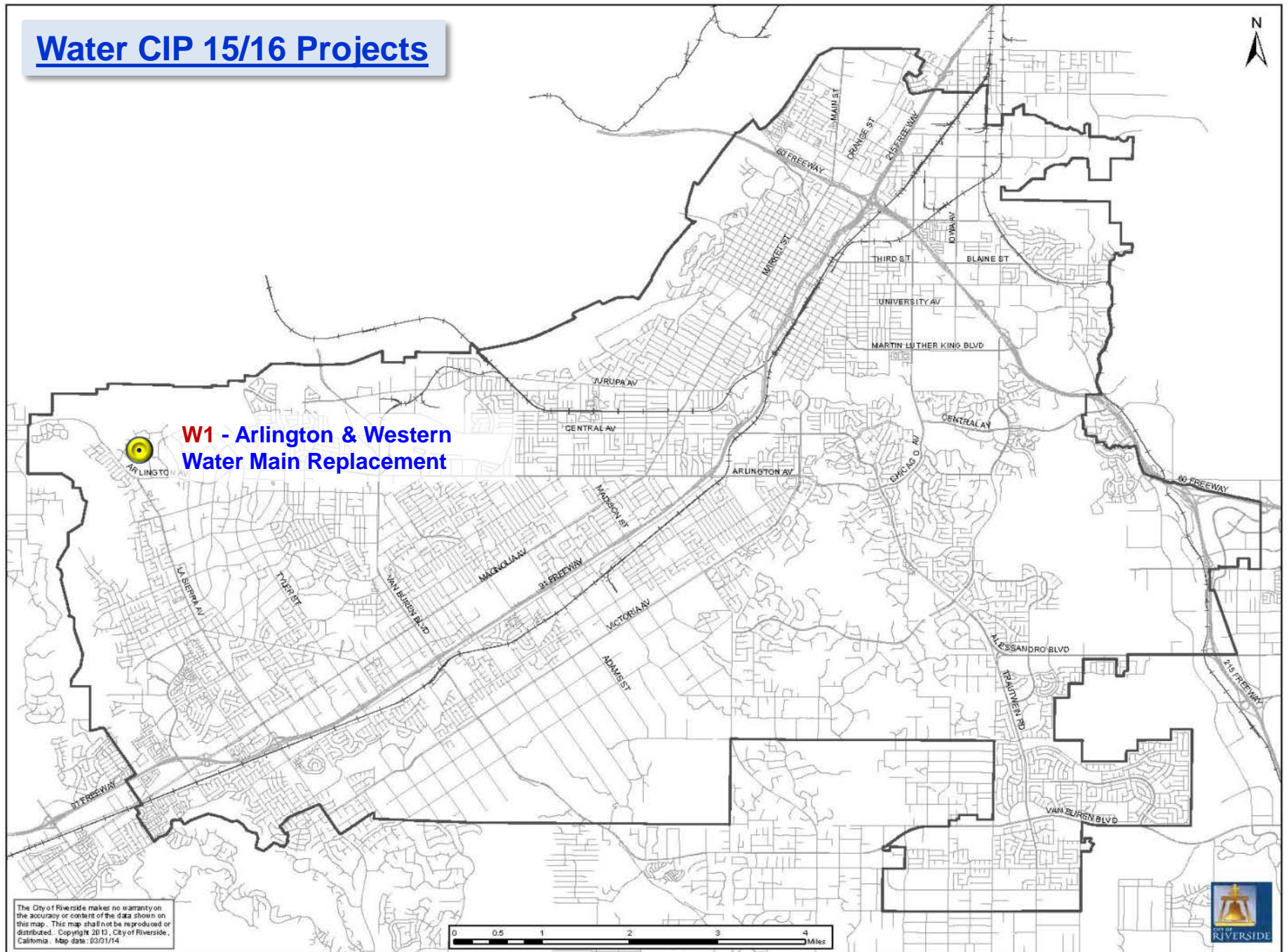
E7 - Mobile Substation #3

E14 - LMR Dispatch Radio Upgrade





Water CIP 15/16 Projects



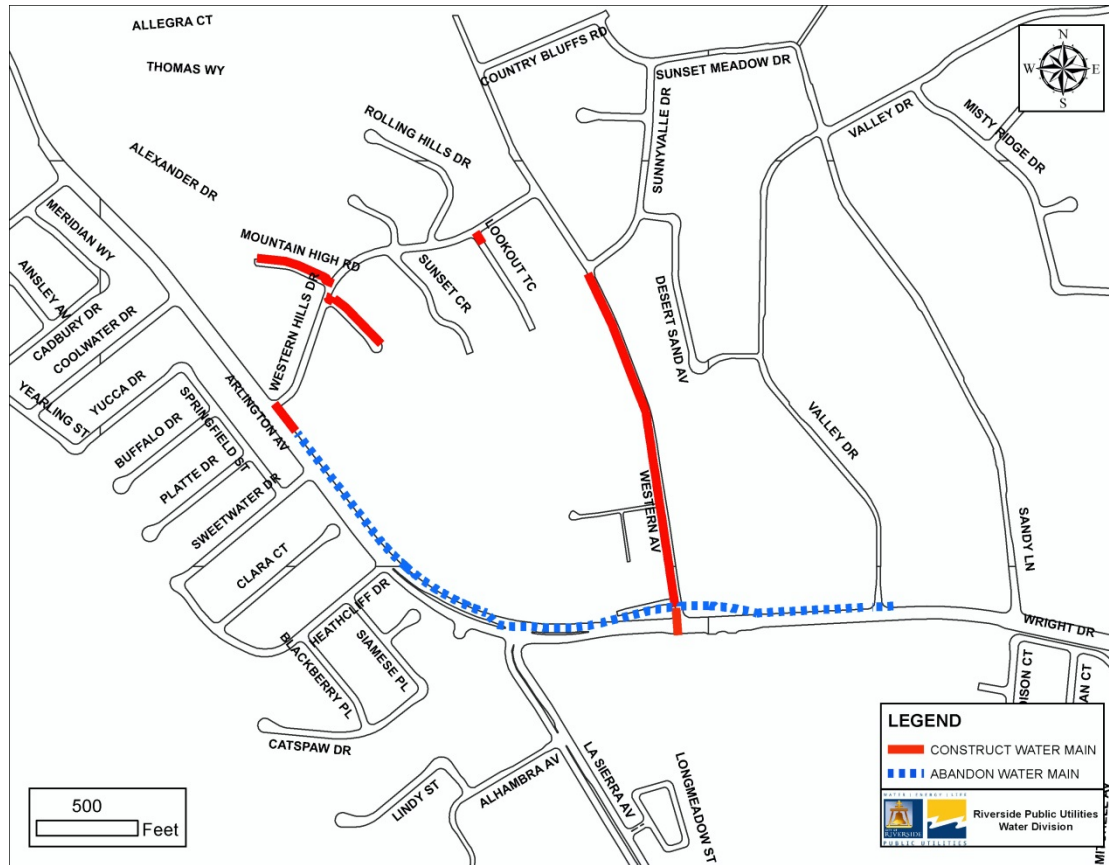
FY 2015/16 Proposed CIP Budget – Water Utility

Main Replacement Projects



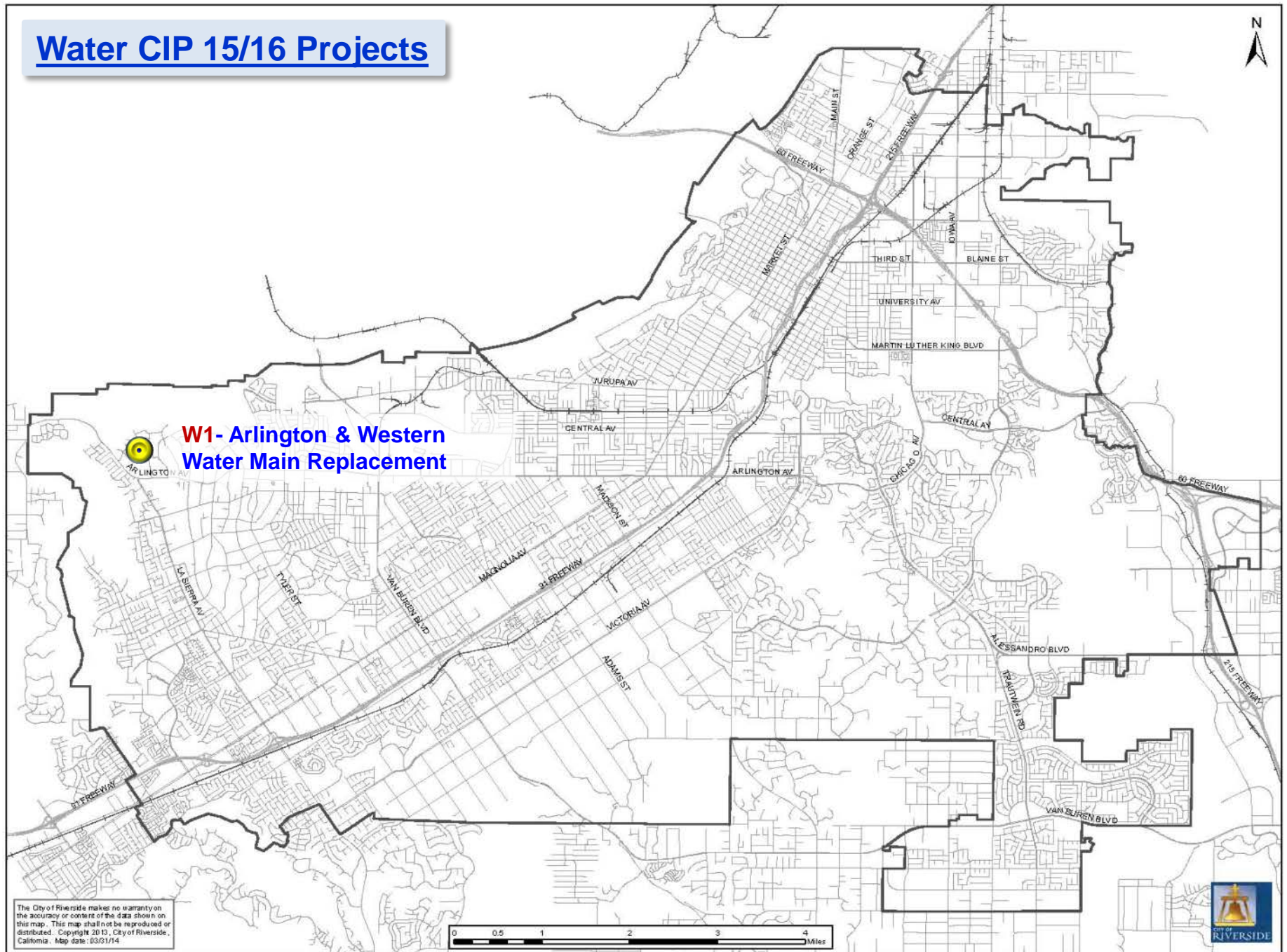
FY 15-16 Projects

Arlington & Western Water Main Replacement



- Replace old and leaking steel & asbestos cement water mains with ~ 3,400 LF of new ductile iron pipe.
- Estimated Project Cost – **\$1,220,000**
- Ward – 7
- Map location – **W1**

Water CIP 15/16 Projects



Recommendation

That the Board of Public Utilities receive this report highlighting planned Electric and Water capital improvement projects over \$500,000 for fiscal year 2015/16.